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Preface

This manual is a guide to operating a device 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.

Part I Local Operations

1 Before You Begin

- Make sure you have permission for the operations you want to perform. For more details, see 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 parameters and parameter values, see the actual 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 parameters and parameter values, see the actual display on your device.
 - Permissions are required for operations in the system. For more details about permission configuration, see User Configuration.
-

1. Right-click anywhere in the preview window and then choose **Menu**. The login dialog box is displayed.
2. 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 may 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 operating 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 Cancel or Exit 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 Buttons

Button	Description
	Press this button to display the main menu.
	Press this button to switch to the next tab on the screen or change the input method.
	Button for auxiliary functions
	Exit the current window

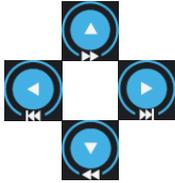
Button	Description
	<ul style="list-style-type: none"> ▲/▼/◀/▶: select a pane or a menu item. In PTZ control mode, these buttons are used to control the rotation direction of the PTZ camera when the PTZ toolbar is hidden. ⏮/⏭: rewind/forward 30 seconds in playback mode when the playback toolbar is hidden. ⏪/⏩: fast forward/rewind in playback mode when the playback toolbar is hidden.
	Used to confirm an operation. In playback mode, this button is used to start/pause the playback.
	In normal operation status, press this button for at least three seconds and confirm to shut down the device.

Table 1-3 Front Panel Buttons

Button	Description
	In normal operation status, press this button for at least three seconds and confirm to shut down the device.
	Enter 1, or display the main menu.
	Enter 2 or ABC; or start instant playback.
	Enter 3 or DEF; or start manual recording.
	Enter 4 or GHI; or display the PTZ control window.
	Enter 5 or JKL, or switch the screen layout in preview or playback mode.
	Enter 6 or MNO, or enable guard plan.
	Enter 7 or PQRS, or take a snapshot.
	Enter 8 or TUV.
	Enter 9 or WXYZ.

Button	Description
	Enter 0 or space.
	Delete
	Switch the input method
	Auxiliary function key
	Exit the current window
	Switch to the next tab
	<ul style="list-style-type: none"> • : select a pane or menu item. In PTZ control mode, these buttons are used to control the rotation direction of the PTZ camera when the PTZ toolbar is hidden. • : rewind/forward 30 seconds in playback mode when the playback toolbar is hidden. • : fast forward/rewind in playback mode when the playback toolbar is hidden. • : confirm an operation. In playback mode, this button is used to start/pause the playback.

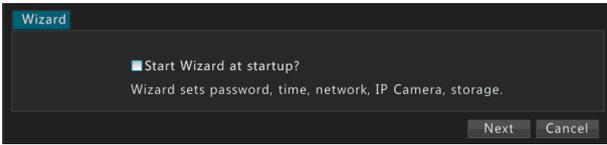
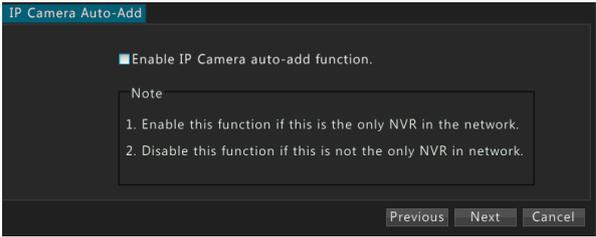
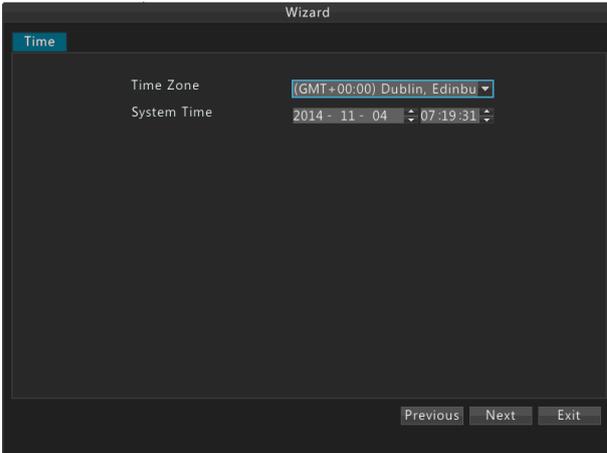
2 Initial Configuration

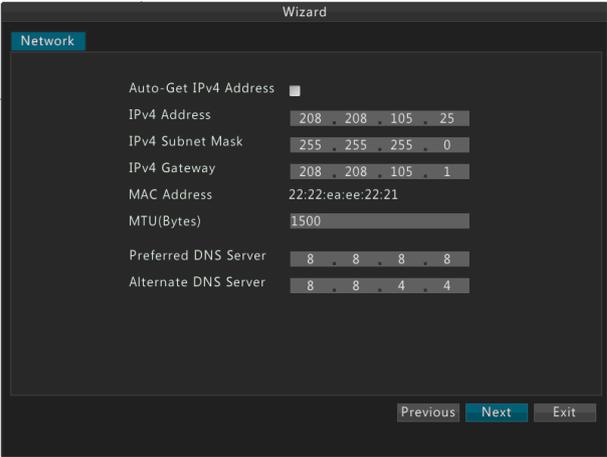
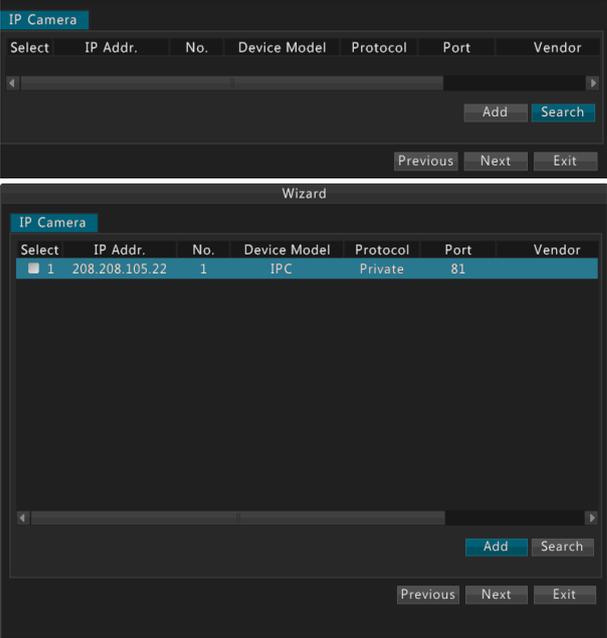
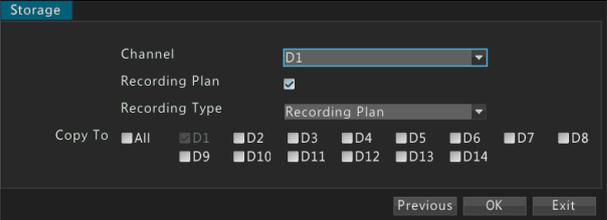
Preparation

- 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.

Step	Screenshot
<p>1) Choose whether to show startup wizard at the next startup, and then click Next.</p> <p>Note: You may also enable Startup Wizard under Menu > System > Basic.</p>	
<p>2) Choose whether to enable the auto-add function, and then click Next.</p> <p>Note:</p> <ul style="list-style-type: none"> The auto-add function is used to automatically add IPCs to your device. 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. You may also enable the auto-add function under Menu > Channel > Channel. 	
<p>3) Enter the admin password 123456 and then click Next.</p> <p>Note: You can select Change Password and then set a new password.</p>	
<p>4) Set the correct time zone and system time, and then click Next.</p>	

Step	Screenshot
<p>5) 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.</p> <p>Note:</p> <ul style="list-style-type: none"> 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 Channel window is not displayed if you have enabled the auto-add function in step 2. 	
<p>6) Click Search, select the camera you want to add, and then click Add. After the camera is added successfully, click Next.</p> <p>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.</p>	
<p>7) 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.</p>	

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
	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.

Button	Button Name	Description
	Manual Recording	Click this button to start recording live video in the current pane to the device. A red cross mark appears in the lower right corner of the button when recording is started. To stop manual recording, click the button again.
	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.
	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

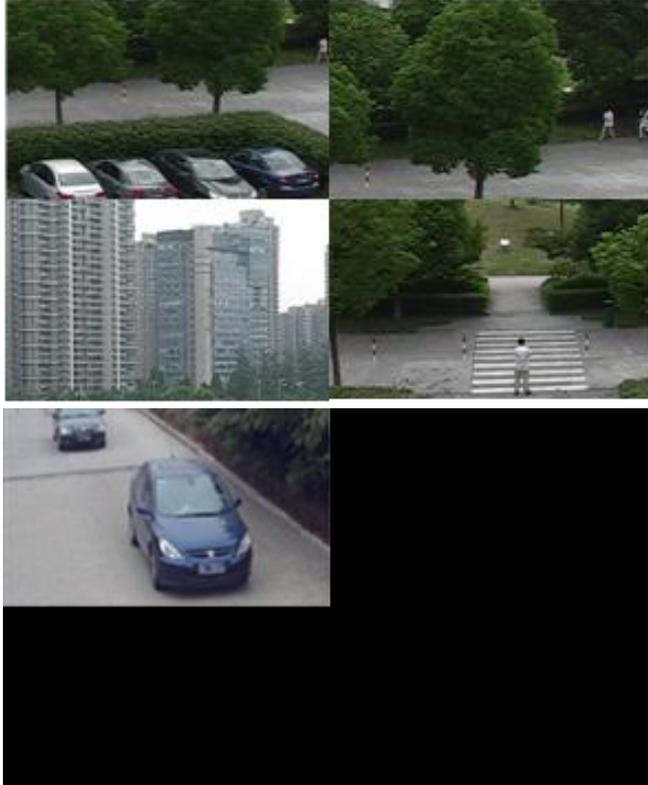
Menu Name	Description	Screenshot
Previous Screen Next Screen	Switch to the previous or next screen	
Single Screen	Switch the display by selecting the desired camera from the menu	
Multi-Screen	Change to the desired screen layout by selecting from the menu	
Start Auto-Switch Stop Auto-Switch	Start/stop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

Step	Screenshot
1) Right-click anywhere in the preview window, and then click Multi-Screen > 4 Screens . Four screens are displayed. Note: <i>Depending on the model of your device, the number of screens that can be displayed may be different.</i>	
	4 Screens
	6 Screens
	8 Screens
	9 Screens
	16 Screens

Step	Screenshot
<p>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 fifth pane on the second screen at the set interval.</p>	

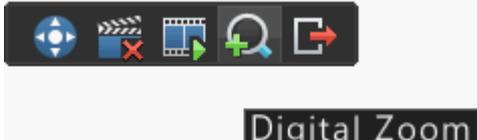


NOTE!

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

Digital Zoom

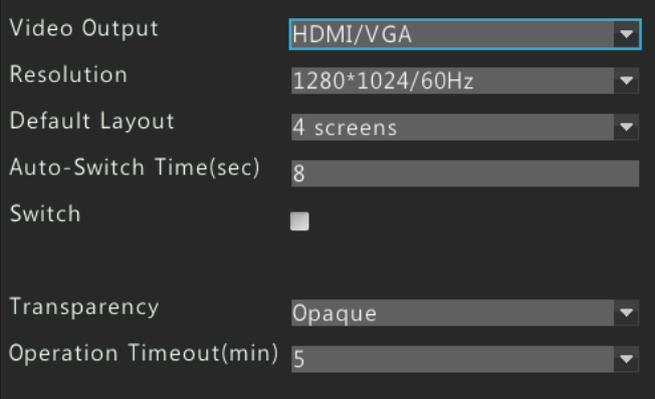
Digital zoom allows you to increase the size of a certain part of an image in a pane of the preview window to get more details of the selected part.

Step	Screenshot
<p>1) Click the desired pane in the preview window and then click the Digital Zoom button.</p>	

Step	Screenshot
<p>2) Use the mouse to set an area.</p>	
<p>3) Release the mouse to increase the size. Note: <i>You can restore the original size by right-clicking the area. To apply this function to other areas, repeat steps 2 and 3.</i></p>	
<p>4) To exit digital zoom, right-click anywhere in the preview window in normal size.</p>	<p>-</p>

Preview Configuration

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

Step	Screenshot
1) Click Menu > System > Preview . 2) Configure preview parameters. 3) After you have completed the configuration, click OK . Note: <i>Depending on the model of your device, the supported output interfaces and the number of screens that can be displayed may be different. See your device for the actual display.</i>	

4 Channel Management

Channel Management

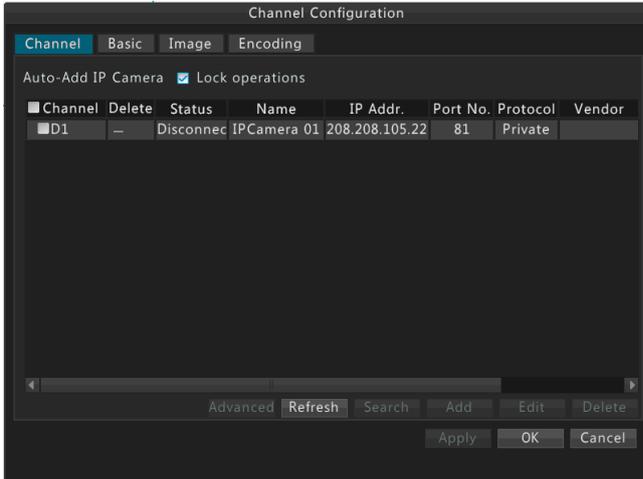
Before you start IP channel management, make sure that the IPCs are connected to the device through network.

Adding IPCs Using the Auto-Add Function



NOTE!

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

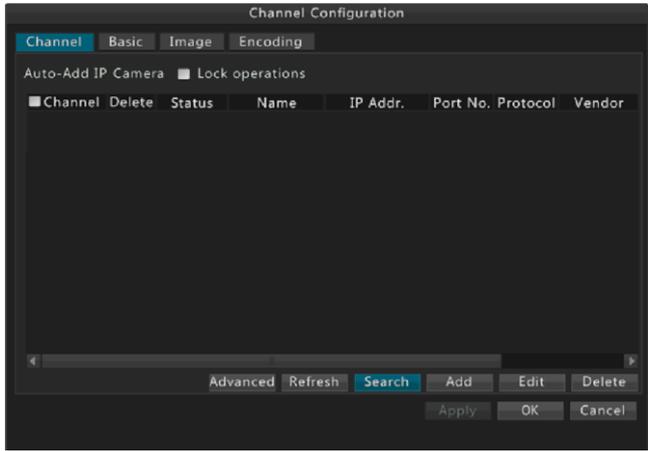
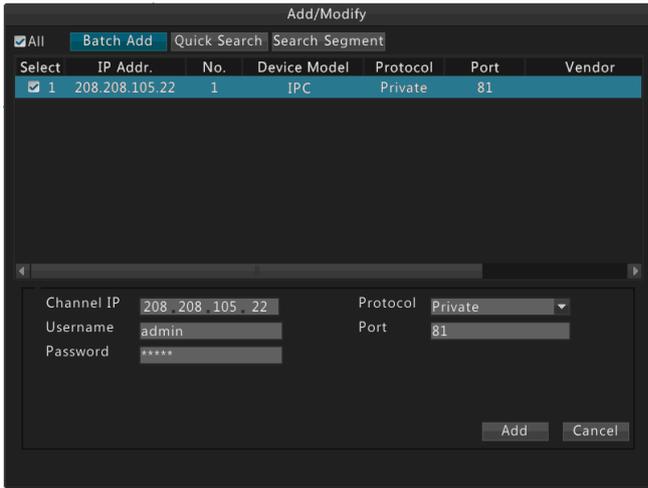
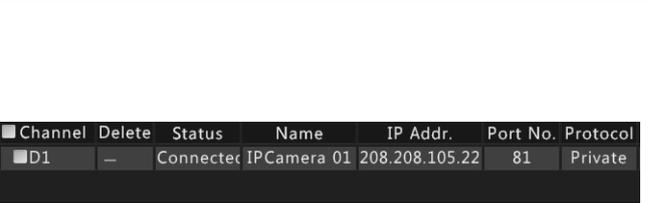
Step	Screenshot
1) Click Menu > Channel > Channel . 2) Select Auto-Add IP Camera . IPCs connected to the device will be added automatically. Note: <i>The auto-add function is enabled by default for devices with one hard disk slot. For devices with more than one disk slot, this function is disabled by default.</i>	

Searching and Adding IPCs

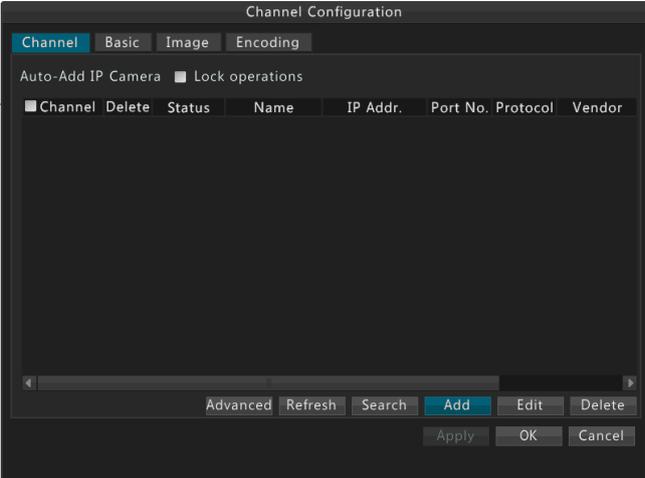
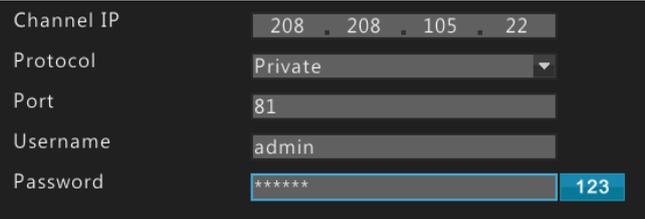
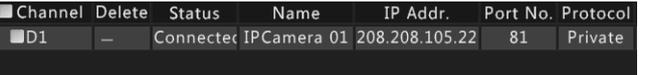


NOTE!

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.

Step	Screenshot														
<ol style="list-style-type: none"> 1) Click Menu > Channel > Channel. 2) Click Search to perform a quick search. <ul style="list-style-type: none"> • 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. 	 <p>The screenshot shows the 'Channel Configuration' window with the 'Channel' tab selected. It features a table with columns: Channel, Delete, Status, Name, IP Addr., Port No., Protocol, and Vendor. Below the table are buttons for 'Advanced', 'Refresh', 'Search', 'Add', 'Edit', and 'Delete'. There are also 'Apply', 'OK', and 'Cancel' buttons at the bottom right.</p>														
<ol style="list-style-type: none"> 3) Perform the following operations as needed. <ul style="list-style-type: none"> • 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. 	 <p>The screenshot shows the 'Add/Modify' window. It has a table with columns: Select, IP Addr., No., Device Model, Protocol, Port, and Vendor. The first row is selected. Below the table are fields for 'Channel IP', 'Username', and 'Password', along with 'Protocol' and 'Port' dropdown menus. 'Add' and 'Cancel' buttons are at the bottom right.</p>														
<ol style="list-style-type: none"> 4) Check the connection status on the Channel tab. <p>Note: <i>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.</i></p>	 <p>The screenshot shows the 'Channel Configuration' window with the 'Channel' tab selected. The table below shows one entry with status 'Connected'.</p> <table border="1" data-bbox="794 1569 1442 1649"> <thead> <tr> <th>Channel</th> <th>Delete</th> <th>Status</th> <th>Name</th> <th>IP Addr.</th> <th>Port No.</th> <th>Protocol</th> </tr> </thead> <tbody> <tr> <td>D1</td> <td>—</td> <td>Connected</td> <td>IPCamera 01</td> <td>208.208.105.22</td> <td>81</td> <td>Private</td> </tr> </tbody> </table>	Channel	Delete	Status	Name	IP Addr.	Port No.	Protocol	D1	—	Connected	IPCamera 01	208.208.105.22	81	Private
Channel	Delete	Status	Name	IP Addr.	Port No.	Protocol									
D1	—	Connected	IPCamera 01	208.208.105.22	81	Private									

Adding IPCs Manually

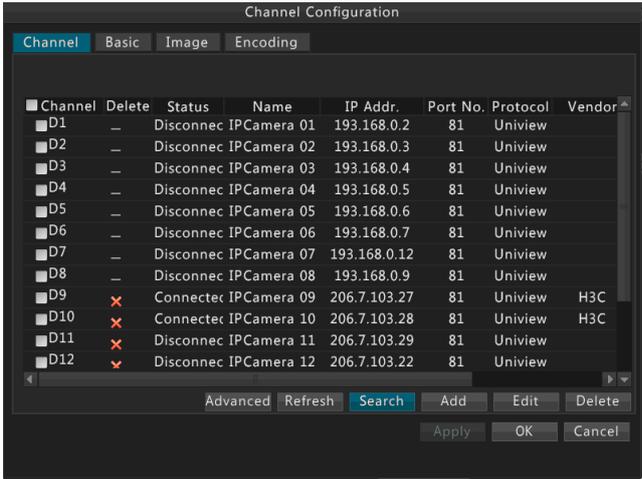
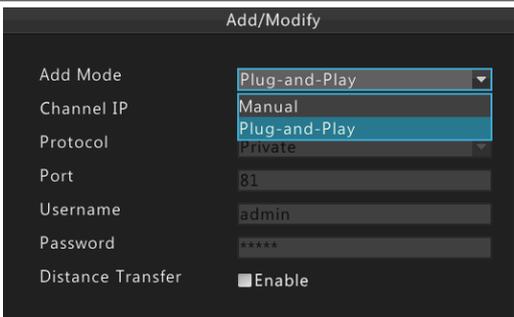
Step	Screenshot														
<p>1) Click Menu > Channel > Channel. Click Add.</p>	 <p>The screenshot shows the 'Channel Configuration' window with the 'Channel' tab active. Below the tabs, there are checkboxes for 'Auto-Add IP Camera' and 'Lock operations'. A table header is visible with columns: Channel, Delete, Status, Name, IP Addr., Port No., Protocol, and Vendor. At the bottom, there are buttons for 'Advanced', 'Refresh', 'Search', 'Add', 'Edit', and 'Delete'. The 'Add' button is highlighted in blue.</p>														
<p>2) Configure the parameters and then click OK.</p>	 <p>The screenshot shows the configuration form for a channel. The fields are: Channel IP (208 . 208 . 105 . 22), Protocol (Private), Port (81), Username (admin), and Password (*****). There is a blue button labeled '123' next to the password field.</p>														
<p>3) Check the connection status on the Channel tab.</p>	 <p>The screenshot shows the 'Channel Configuration' window with the 'Channel' tab active. The table below shows the connection status of the added channel:</p> <table border="1" data-bbox="778 1039 1423 1114"> <thead> <tr> <th>Channel</th> <th>Delete</th> <th>Status</th> <th>Name</th> <th>IP Addr.</th> <th>Port No.</th> <th>Protocol</th> </tr> </thead> <tbody> <tr> <td>D1</td> <td>—</td> <td>Connected</td> <td>IPCamera 01</td> <td>208.208.105.22</td> <td>81</td> <td>Private</td> </tr> </tbody> </table>	Channel	Delete	Status	Name	IP Addr.	Port No.	Protocol	D1	—	Connected	IPCamera 01	208.208.105.22	81	Private
Channel	Delete	Status	Name	IP Addr.	Port No.	Protocol									
D1	—	Connected	IPCamera 01	208.208.105.22	81	Private									

Adding IPCs Using the Plug-and-Play Function



NOTE!

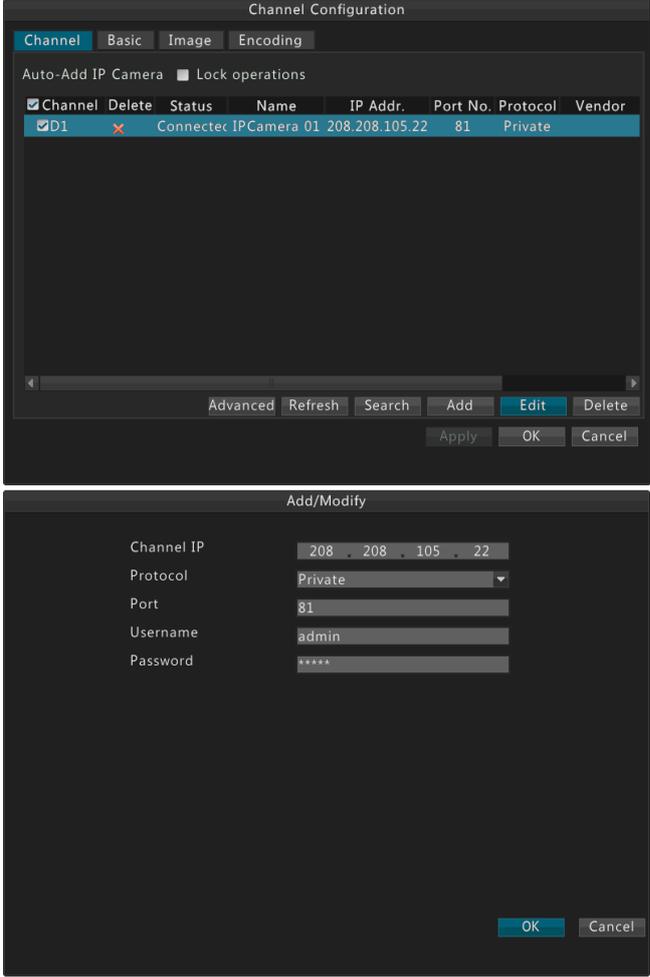
- The Plug-and-Play function is available only for the device with PoE ports or switching ports.
- The channel corresponding to a PoE port or a switching port cannot be deleted.

Step	Screenshot																																																																																																								
<p>1) Click Menu > Channel > Channel.</p> <p>2) Select the desired camera and then click Edit.</p>	 <table border="1"> <thead> <tr> <th>Channel</th> <th>Delete</th> <th>Status</th> <th>Name</th> <th>IP Addr.</th> <th>Port No.</th> <th>Protocol</th> <th>Vendor</th> </tr> </thead> <tbody> <tr><td>D1</td><td>—</td><td>Disconnect</td><td>IPCamera 01</td><td>193.168.0.2</td><td>81</td><td>Uniview</td><td></td></tr> <tr><td>D2</td><td>—</td><td>Disconnect</td><td>IPCamera 02</td><td>193.168.0.3</td><td>81</td><td>Uniview</td><td></td></tr> <tr><td>D3</td><td>—</td><td>Disconnect</td><td>IPCamera 03</td><td>193.168.0.4</td><td>81</td><td>Uniview</td><td></td></tr> <tr><td>D4</td><td>—</td><td>Disconnect</td><td>IPCamera 04</td><td>193.168.0.5</td><td>81</td><td>Uniview</td><td></td></tr> <tr><td>D5</td><td>—</td><td>Disconnect</td><td>IPCamera 05</td><td>193.168.0.6</td><td>81</td><td>Uniview</td><td></td></tr> <tr><td>D6</td><td>—</td><td>Disconnect</td><td>IPCamera 06</td><td>193.168.0.7</td><td>81</td><td>Uniview</td><td></td></tr> <tr><td>D7</td><td>—</td><td>Disconnect</td><td>IPCamera 07</td><td>193.168.0.12</td><td>81</td><td>Uniview</td><td></td></tr> <tr><td>D8</td><td>—</td><td>Disconnect</td><td>IPCamera 08</td><td>193.168.0.9</td><td>81</td><td>Uniview</td><td></td></tr> <tr><td>D9</td><td>×</td><td>Connecte</td><td>IPCamera 09</td><td>206.7.103.27</td><td>81</td><td>Uniview</td><td>H3C</td></tr> <tr><td>D10</td><td>×</td><td>Connecte</td><td>IPCamera 10</td><td>206.7.103.28</td><td>81</td><td>Uniview</td><td>H3C</td></tr> <tr><td>D11</td><td>×</td><td>Disconnect</td><td>IPCamera 11</td><td>206.7.103.29</td><td>81</td><td>Uniview</td><td></td></tr> <tr><td>D12</td><td>×</td><td>Disconnect</td><td>IPCamera 12</td><td>206.7.103.22</td><td>81</td><td>Uniview</td><td></td></tr> </tbody> </table>	Channel	Delete	Status	Name	IP Addr.	Port No.	Protocol	Vendor	D1	—	Disconnect	IPCamera 01	193.168.0.2	81	Uniview		D2	—	Disconnect	IPCamera 02	193.168.0.3	81	Uniview		D3	—	Disconnect	IPCamera 03	193.168.0.4	81	Uniview		D4	—	Disconnect	IPCamera 04	193.168.0.5	81	Uniview		D5	—	Disconnect	IPCamera 05	193.168.0.6	81	Uniview		D6	—	Disconnect	IPCamera 06	193.168.0.7	81	Uniview		D7	—	Disconnect	IPCamera 07	193.168.0.12	81	Uniview		D8	—	Disconnect	IPCamera 08	193.168.0.9	81	Uniview		D9	×	Connecte	IPCamera 09	206.7.103.27	81	Uniview	H3C	D10	×	Connecte	IPCamera 10	206.7.103.28	81	Uniview	H3C	D11	×	Disconnect	IPCamera 11	206.7.103.29	81	Uniview		D12	×	Disconnect	IPCamera 12	206.7.103.22	81	Uniview	
Channel	Delete	Status	Name	IP Addr.	Port No.	Protocol	Vendor																																																																																																		
D1	—	Disconnect	IPCamera 01	193.168.0.2	81	Uniview																																																																																																			
D2	—	Disconnect	IPCamera 02	193.168.0.3	81	Uniview																																																																																																			
D3	—	Disconnect	IPCamera 03	193.168.0.4	81	Uniview																																																																																																			
D4	—	Disconnect	IPCamera 04	193.168.0.5	81	Uniview																																																																																																			
D5	—	Disconnect	IPCamera 05	193.168.0.6	81	Uniview																																																																																																			
D6	—	Disconnect	IPCamera 06	193.168.0.7	81	Uniview																																																																																																			
D7	—	Disconnect	IPCamera 07	193.168.0.12	81	Uniview																																																																																																			
D8	—	Disconnect	IPCamera 08	193.168.0.9	81	Uniview																																																																																																			
D9	×	Connecte	IPCamera 09	206.7.103.27	81	Uniview	H3C																																																																																																		
D10	×	Connecte	IPCamera 10	206.7.103.28	81	Uniview	H3C																																																																																																		
D11	×	Disconnect	IPCamera 11	206.7.103.29	81	Uniview																																																																																																			
D12	×	Disconnect	IPCamera 12	206.7.103.22	81	Uniview																																																																																																			
<ul style="list-style-type: none"> • 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. 																																																																																																									
<p>3) Check the connection status on the Channel tab.</p> <p>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.</p>																																																																																																									

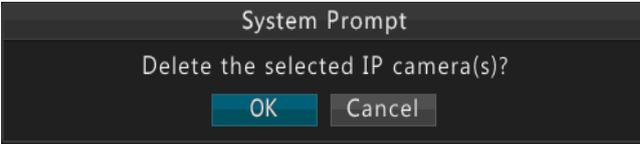
Advanced Settings

Step	Screenshot
<ol style="list-style-type: none">1) Click Menu > Channel > Channel.2) Select the IPC that is connected by using the Private protocol and whose status is displayed as Connected, and then click Advanced.3) Modify the IP address of the IPC as required.4) Click OK.	<p>The top screenshot shows the 'Channel Configuration' window. It has tabs for 'Channel', 'Basic', 'Image', and 'Encoding'. Below the tabs, there are checkboxes for 'Auto-Add IP Camera' and 'Lock operations'. A table lists channels with columns: Channel, Delete, Status, Name, IP Addr., Port No., Protocol, and Vendor. The first row is selected and highlighted in blue: Channel 'D1', Delete icon, Status 'Connected', Name 'Connectec IPCamera 01', IP Addr. '208.208.105.22', Port No. '81', Protocol 'Private', and Vendor. Below the table are buttons: 'Advanced', 'Refresh', 'Search', 'Add', 'Edit', 'Delete', 'Apply', 'OK', and 'Cancel'.</p> <p>The bottom screenshot shows the 'Advanced' window for channel 'D1'. It has a 'Network' tab. The 'Channel' field is 'D1' and the 'IP Addr.' field is '208.208.105.22'. There are 'Apply', 'OK', and 'Cancel' buttons at the bottom.</p>

Editing an IPC

Step	Screenshot
<ol style="list-style-type: none"> 1) Click Menu > Channel > Channel. 2) Select the IPC and then click Edit. 3) Edit the settings as required. 4) After you have completed the configuration, click OK. 	 <p>The top screenshot shows the 'Channel Configuration' window. It has tabs for 'Channel', 'Basic', 'Image', and 'Encoding'. Below the tabs, there are checkboxes for 'Auto-Add IP Camera' and 'Lock operations'. A table lists channels with columns: Channel, Delete, Status, Name, IP Addr., Port No., Protocol, and Vendor. The first row is selected and highlighted in blue, showing 'D1', a red 'X' in the Delete column, 'Connectec IPCamera 01', '208.208.105.22', '81', and 'Private'. Below the table are buttons for 'Advanced', 'Refresh', 'Search', 'Add', 'Edit', and 'Delete'. At the bottom right are 'Apply', 'OK', and 'Cancel' buttons.</p> <p>The bottom screenshot shows the 'Add/Modify' configuration form. It has fields for 'Channel IP' (208 . 208 . 105 . 22), 'Protocol' (Private), 'Port' (81), 'Username' (admin), and 'Password' (*****). At the bottom right are 'OK' and 'Cancel' buttons.</p>

Deleting an IPC

Step	Screenshot
<ol style="list-style-type: none"> 1) Click Menu > Channel > Channel. 2) Select the IPC and then click Delete. <ul style="list-style-type: none"> • To delete one camera, select the camera, click X and then click OK. • To delete multiple cameras at a time, select the cameras, click Delete, and then click OK. <p>Note: Channels corresponding to PoE ports or switching ports cannot be deleted.</p>	 <p>The screenshot shows a 'System Prompt' dialog box with the text 'Delete the selected IP camera(s)?' and two buttons: 'OK' and 'Cancel'.</p>

Basic Settings

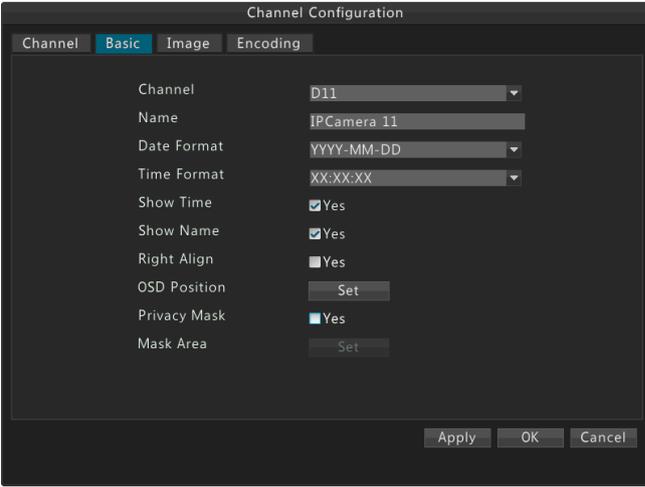
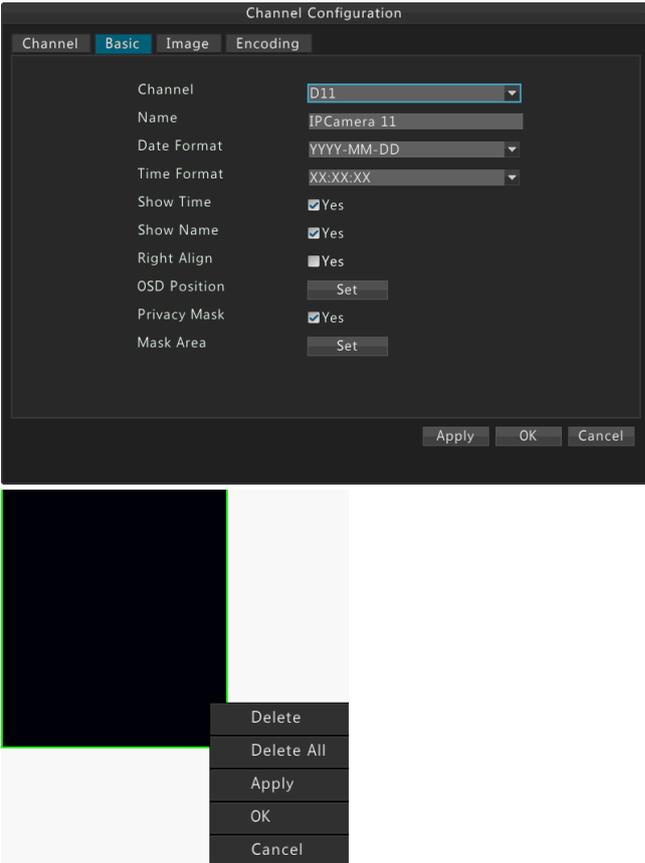
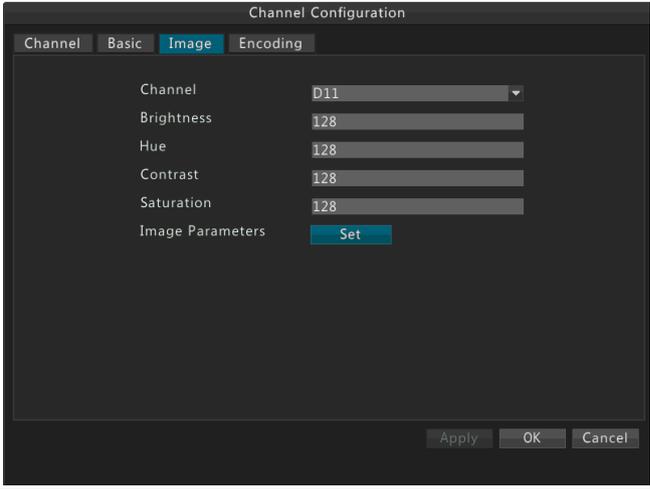
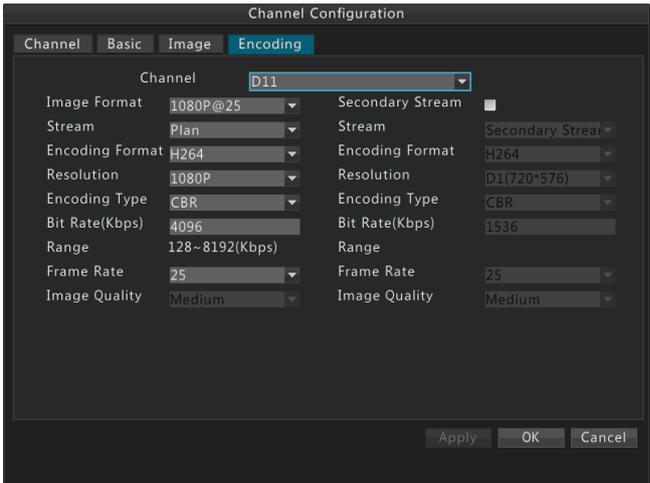
Step	Screenshot
<ol style="list-style-type: none"> 1) Click Menu > Channel > Basic. 2) Select the channel and set the channel name. 3) Set the OSD. You may set the date and time formats, display time and name on the screen. You may also click Set to set the position precisely. 4) After you have completed the configuration, click Apply. 	
<ol style="list-style-type: none"> 5) Set privacy mask. <ol style="list-style-type: none"> a. Select the Yes check box for Privacy Mask. b. Click Set. c. Drag the mouse to draw a box that covers the privacy mask area. Multiple mask areas are allowed. d. Right-click on the screen and then click OK. 	

Image Settings

Step	Screenshot
<ol style="list-style-type: none"> 1) Click Menu > Channel > Image. 2) Select the channel 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. <p>Note: Changing image settings will change images of both live and recorded videos.</p>	

Encoding Settings

Step	Screenshot
<ol style="list-style-type: none"> 1) Click Menu > Channel > Encoding. 2) Select the channel and then set the encoding parameters, including Stream and Resolution. 3) After you have completed the configuration, click OK. <p>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.</p>	

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

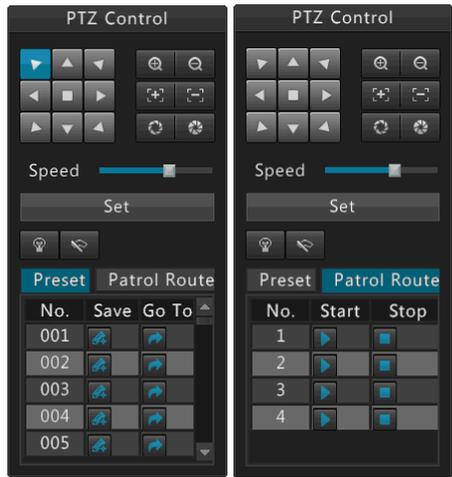
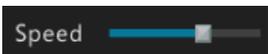
Step	Screenshot
1) Click the desired pane in the preview window and then click the PTZ Control button on the toolbar.	
2) The PTZ toolbar appears. Control the PTZ camera using the PTZ toolbar as required. For details about how to use the PTZ toolbar, see PTZ Toolbar Buttons.	

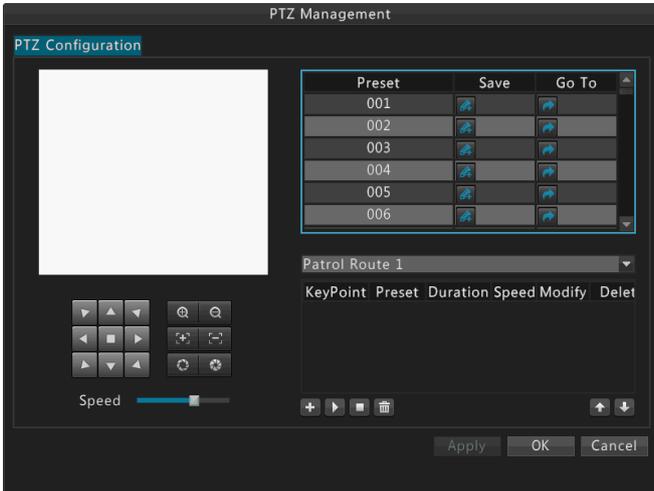
Table 5-1 PTZ Toolbar Buttons

Button	Description
	Control the rotation direction of the PTZ camera or stop rotation.
	<ul style="list-style-type: none"> • Adjust zoom. • Adjust focus. • Adjust iris.
	Control the rotation speed. 1 means the slowest speed, and 9 means the fastest speed.
	<ul style="list-style-type: none"> • Turn on/off the light • Turn on/off the wiper

Button	Description
	Preset button.
	<ul style="list-style-type: none"> Save a preset, which means setting the current status (including position) of a PTZ camera as a preset. Call a preset, so that the PTZ camera goes to the preset position. <p>Note: 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.
	<ul style="list-style-type: none"> Start a patrol route. Stop a patrol route.

Configuring and Calling a Preset

Step	Screenshot
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.	

Step	Screenshot
<p>3) Configure presets.</p> <p>a. 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.</p> <p>b. To add more presets, repeat the above operations.</p> <p>4) Select the desired preset number from the drop-down list and then click .</p>	

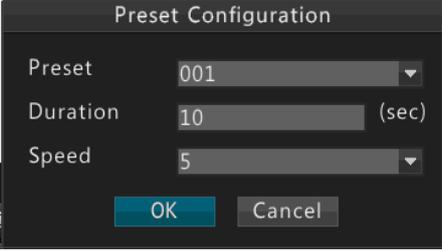
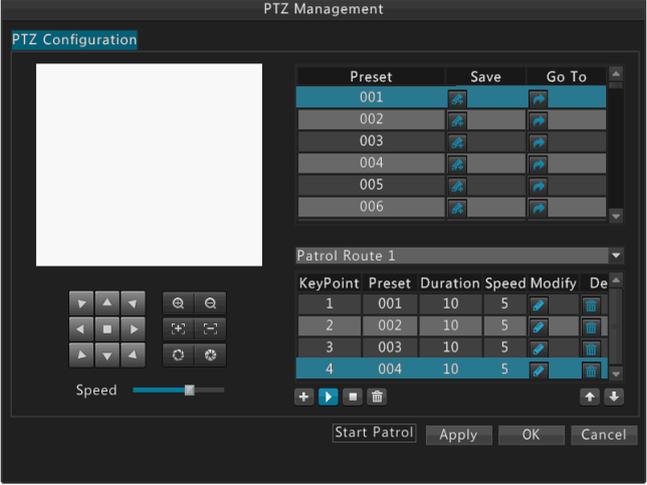
Configuring and Calling a Patrol Route



NOTE!

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

Step	Screenshot
<p>1) Click the desired pane in the preview window and then click the PTZ Control button on the toolbar.</p>	
<p>2) Click Set. The PTZ Management window is displayed.</p>	

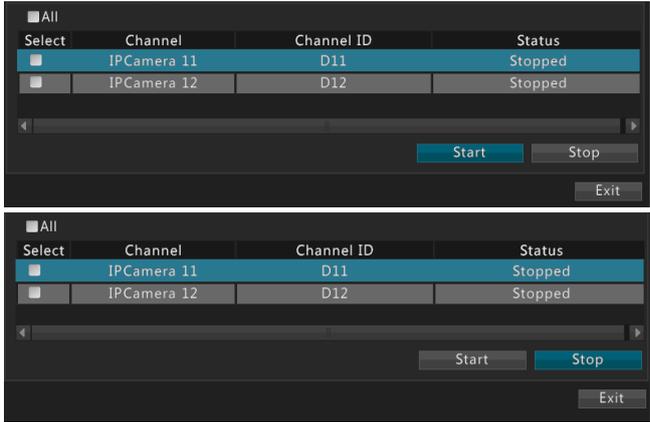
Step	Screenshot
<p>3) Click , set the duration and speed as required, and then click OK. Repeat this step to add more key points.</p> <p>Note:</p> <ul style="list-style-type: none"> • The default duration is 10 seconds, and the default speed is 5. • The  and  buttons are used to modify and delete a preset. • The  and  buttons are used to adjust the sequence of key points. • The  button is used to delete all the key points. 	
<p>4) Select the desired patrol route from the drop-down list and then click  to start it. To stop the patrol route, click .</p>	

6 Recording

You can record video after you have finished the configuration as described in Initial Configuration.

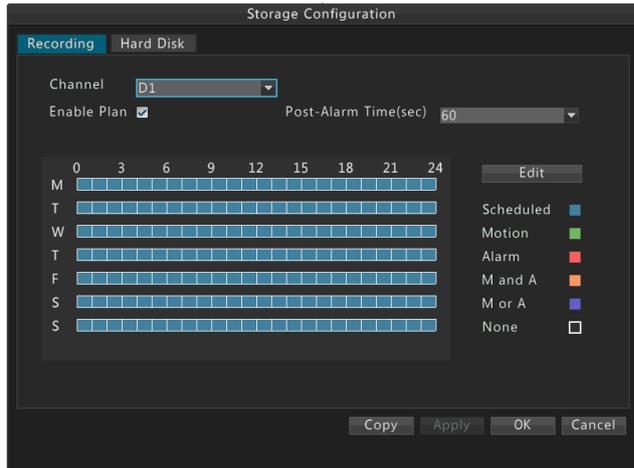
Manual Recording

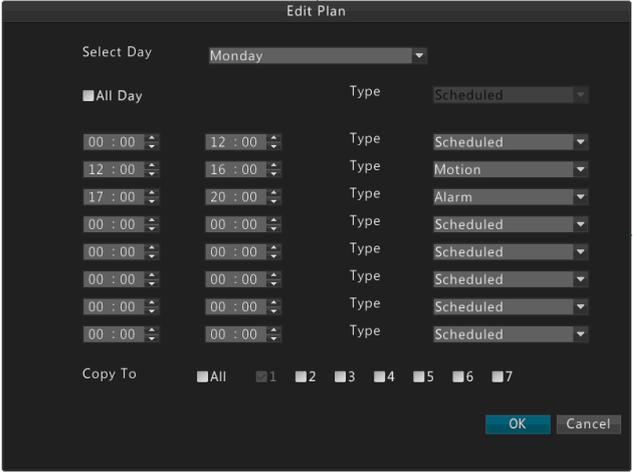
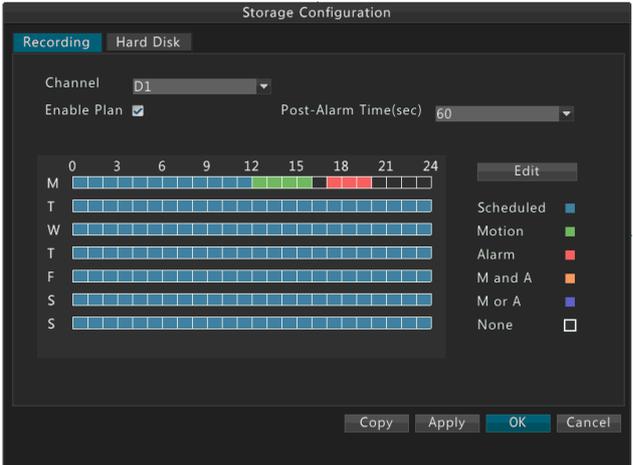
Manual recording refers to manually recording audio/video data from a camera to a hard disk. Manual recording is different from scheduled recording and alarm-triggered recording.

Step	Screenshot
<p>Option 1</p> <p>Click the desired pane in the preview window, and then click the Manual Recording button to start recording.</p> <p>The  icon appears in the upper right corner of the pane when recording is started. To stop manual recording, click the Stop Recording button.</p>	 <p>The screenshot shows two panels. The left panel has a 'Manual Recording' button, and the right panel has a 'Stop Recording' button. Above each button is a set of icons including a camera, a film strip, a play button, a stop button, and a refresh button.</p>
<p>Option 2</p> <p>Click Menu > Recording, select the camera, and then click Start to start recording.</p> <p>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.</p> <p>Note: <i>The number of supported channels may vary with device model. For the number of channels that your device supports, see the actual display on your device.</i></p>	 <p>The screenshot shows two instances of a recording menu. Each menu has a table with columns: Select, Channel, Channel ID, and Status. The first instance shows 'IPCamera 11' (D11) and 'IPCamera 12' (D12), both with 'Stopped' status. Below the table are 'Start' and 'Stop' buttons. The second instance is similar but the 'Start' button is disabled and the 'Stop' button is active.</p>

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.

Step	Screenshot
<ol style="list-style-type: none"> 1) Click Menu > Storage > Recording. 2) Make a recording plan. <ol style="list-style-type: none"> a. Select the channel and then select Enable Plan. b. Click Edit. 	 <p>The screenshot shows the 'Storage Configuration' window with the 'Recording' tab selected. It shows 'Channel' set to 'D1', 'Enable Plan' checked, and 'Post-Alarm Time(sec)' set to '60'. Below is a 24-hour grid for days M, T, W, T, F, S, S. A legend on the right shows options: Scheduled (blue), Motion (green), Alarm (red), M and A (orange), M or A (purple), and None (white). Buttons for 'Edit', 'Copy', 'Apply', 'OK', and 'Cancel' are at the bottom.</p>

Step	Screenshot
<p>3) Set recording times and recording type(s).</p> <ul style="list-style-type: none"> 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. 	
<p>4) Click OK.</p> <p>Note:</p> <ul style="list-style-type: none"> The number of channels supported may vary with device model. For the number of channels that your device supports, see the actual display on your device. To apply the same settings to other channels, click Copy and then select the intended channels. 	

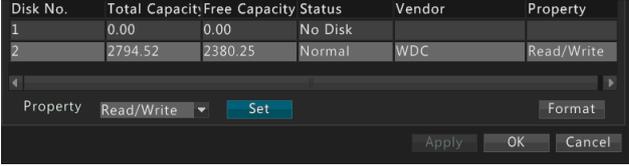
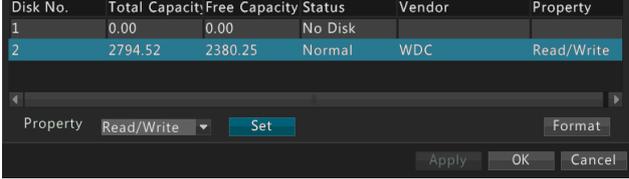
Alarm-Triggered Recording

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.

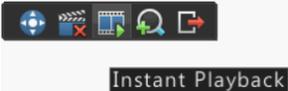
Step	Screenshot
<p>1) Click Menu > Storage > Hard Disk.</p> <p>Note: The Hard Disk tab displays disk information, including total capacity, free capacity, and disk status.</p>	
<p>2) Set disk property.</p> <ol style="list-style-type: none"> Select the disk you want to set. Select the desired option from the Property drop-down list. Click Set. <p>Note:</p> <ul style="list-style-type: none"> 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.

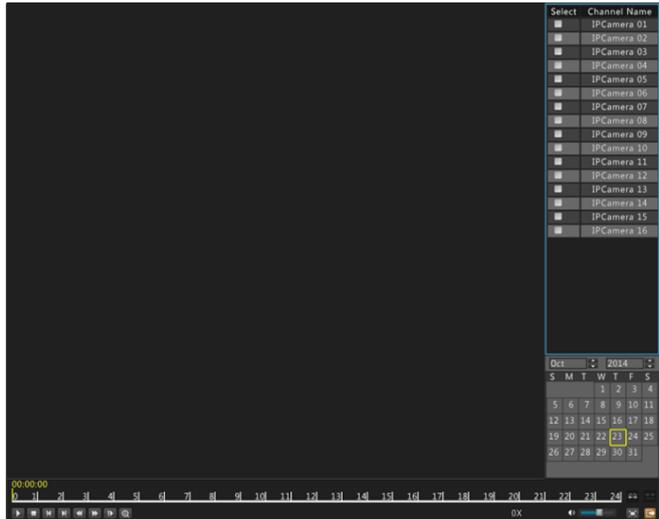
Before you use this function, check that a recording exists for the past five minutes.

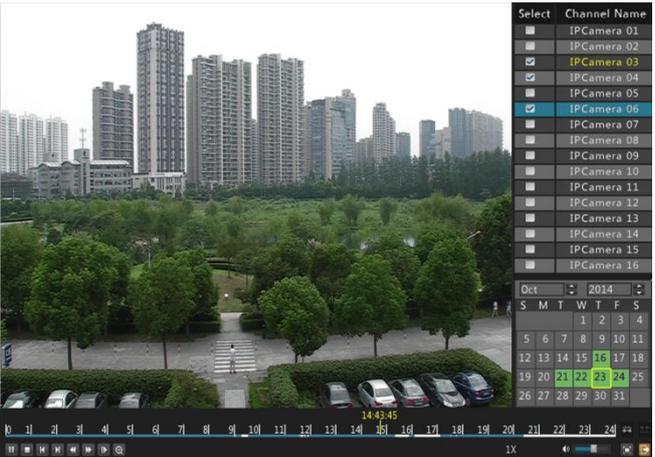
Step	Screenshot
<p>1) Click the desired pane in the preview window and then click the Instant Playback button.</p>	

Step	Screenshot
<p>2) Use the slider to control the progress, and click the buttons to pause or stop playback as required.</p>	

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.

Step	Screenshot
<p>1) Click Menu > Playback, or right-click anywhere in the preview window and then click Playback.</p>	

Step	Screenshot
<p>2) Query a recording.</p> <p>a. Select the desired camera. The first camera selected is the main camera, and it is in yellow font.</p> <p>b. Select the date from the calendar. The selected date is highlighted with yellow frames.</p> <p>Note:</p> <ul style="list-style-type: none"> 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. 	
<p>3) Click the Play button or double-click the date to start playback.</p> <ul style="list-style-type: none"> By default the device starts from the first recording of the selected day. You may move the slider to control the progress. <p>Note:</p> <p>The playback toolbar offers other functions such as forward by frame, speed up, speed down. For more details, see Playback Toolbar.</p>	

Playback Toolbar

Figure 7-1 Playback Toolbar

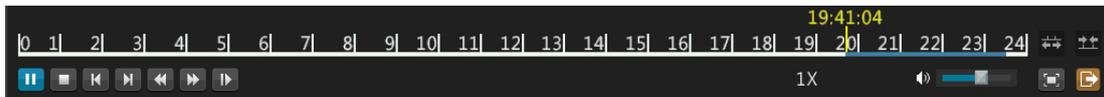


Table 7-1 Playback Toolbar Buttons

Button	Description
	<p>Display the current position of playback.</p> <p>Note: You can move the slider to change the start time from which the playback begins.</p>
	<p>Playback progress bar.</p>

Button	Description
	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
	Decrease or increase the size of the progress bar.
	Adjust volume for the selected pane.
	Exit the playback page.
	Play in full screen mode. Note: You can exit full screen mode by right-clicking the mouse.

8 Backup

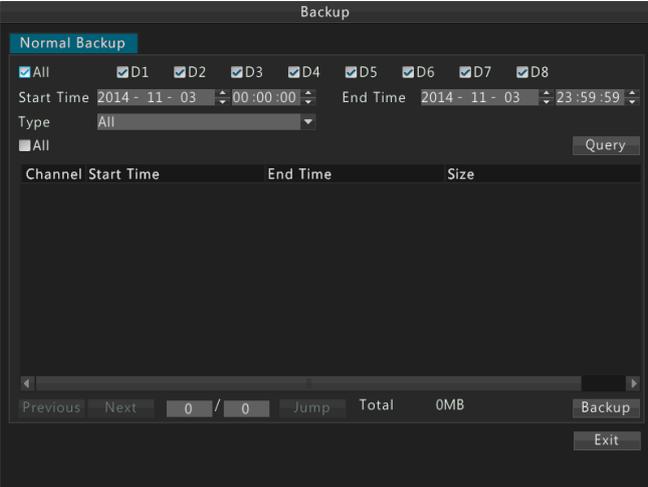
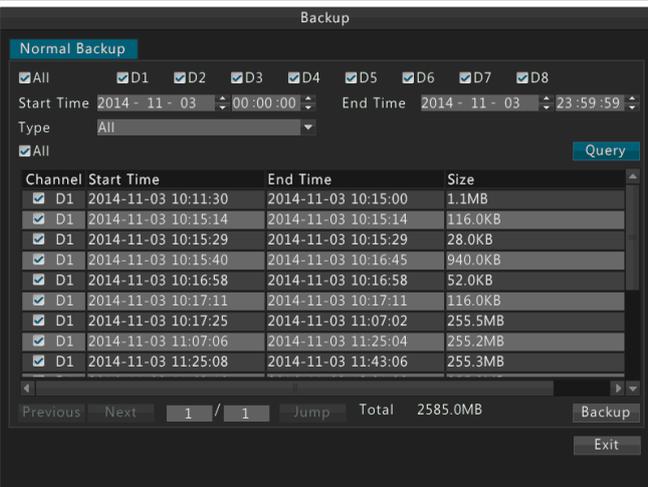
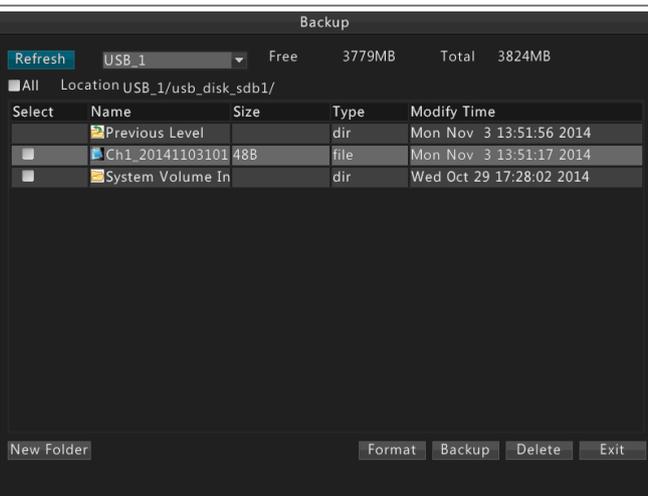
Backup, also known as recording backup, refers to the process of querying video stored on a hard disk of the device and then saving the recording to a USB drive as a file. The following conditions must be met for backup:

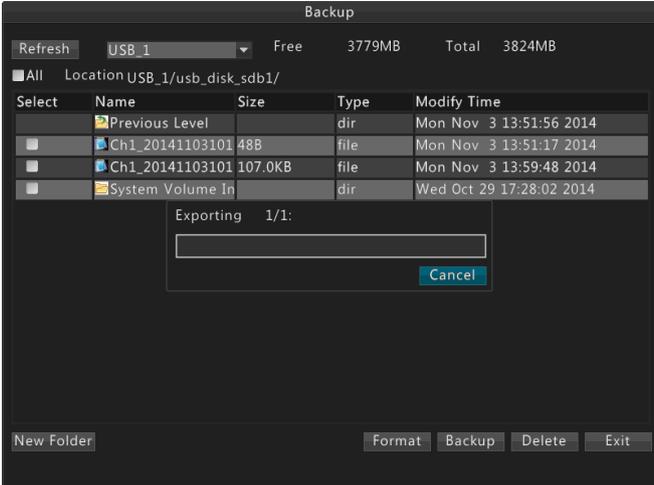
- The USB drive has been formatted into a FAT32 or NTFS file system and correctly plugged into the device.
- You have local playback permission for the corresponding camera.
- A recording is stored on the hard disk.



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.

Step	Screenshot																																								
<p>1) Click Menu > Backup.</p>																																									
<p>2) Select the desired channel(s), set the time range, select the recording type, and then click Query.</p> <p>Note: By default all the channels are selected.</p>	 <table border="1" data-bbox="778 888 1394 1103"> <thead> <tr> <th>Channel</th> <th>Start Time</th> <th>End Time</th> <th>Size</th> </tr> </thead> <tbody> <tr><td><input checked="" type="checkbox"/> D1</td><td>2014-11-03 10:11:30</td><td>2014-11-03 10:15:00</td><td>1.1MB</td></tr> <tr><td><input checked="" type="checkbox"/> D1</td><td>2014-11-03 10:15:14</td><td>2014-11-03 10:15:14</td><td>116.0KB</td></tr> <tr><td><input checked="" type="checkbox"/> D1</td><td>2014-11-03 10:15:29</td><td>2014-11-03 10:15:29</td><td>28.0KB</td></tr> <tr><td><input checked="" type="checkbox"/> D1</td><td>2014-11-03 10:15:40</td><td>2014-11-03 10:16:45</td><td>940.0KB</td></tr> <tr><td><input checked="" type="checkbox"/> D1</td><td>2014-11-03 10:16:58</td><td>2014-11-03 10:16:58</td><td>52.0KB</td></tr> <tr><td><input checked="" type="checkbox"/> D1</td><td>2014-11-03 10:17:11</td><td>2014-11-03 10:17:11</td><td>116.0KB</td></tr> <tr><td><input checked="" type="checkbox"/> D1</td><td>2014-11-03 10:17:25</td><td>2014-11-03 11:07:02</td><td>255.5MB</td></tr> <tr><td><input checked="" type="checkbox"/> D1</td><td>2014-11-03 11:07:06</td><td>2014-11-03 11:25:04</td><td>255.2MB</td></tr> <tr><td><input checked="" type="checkbox"/> D1</td><td>2014-11-03 11:25:08</td><td>2014-11-03 11:43:06</td><td>255.3MB</td></tr> </tbody> </table>	Channel	Start Time	End Time	Size	<input checked="" type="checkbox"/> D1	2014-11-03 10:11:30	2014-11-03 10:15:00	1.1MB	<input checked="" type="checkbox"/> D1	2014-11-03 10:15:14	2014-11-03 10:15:14	116.0KB	<input checked="" type="checkbox"/> D1	2014-11-03 10:15:29	2014-11-03 10:15:29	28.0KB	<input checked="" type="checkbox"/> D1	2014-11-03 10:15:40	2014-11-03 10:16:45	940.0KB	<input checked="" type="checkbox"/> D1	2014-11-03 10:16:58	2014-11-03 10:16:58	52.0KB	<input checked="" type="checkbox"/> D1	2014-11-03 10:17:11	2014-11-03 10:17:11	116.0KB	<input checked="" type="checkbox"/> D1	2014-11-03 10:17:25	2014-11-03 11:07:02	255.5MB	<input checked="" type="checkbox"/> D1	2014-11-03 11:07:06	2014-11-03 11:25:04	255.2MB	<input checked="" type="checkbox"/> D1	2014-11-03 11:25:08	2014-11-03 11:43:06	255.3MB
Channel	Start Time	End Time	Size																																						
<input checked="" type="checkbox"/> D1	2014-11-03 10:11:30	2014-11-03 10:15:00	1.1MB																																						
<input checked="" type="checkbox"/> D1	2014-11-03 10:15:14	2014-11-03 10:15:14	116.0KB																																						
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<input checked="" type="checkbox"/> D1	2014-11-03 10:17:25	2014-11-03 11:07:02	255.5MB																																						
<input checked="" type="checkbox"/> D1	2014-11-03 11:07:06	2014-11-03 11:25:04	255.2MB																																						
<input checked="" type="checkbox"/> D1	2014-11-03 11:25:08	2014-11-03 11:43:06	255.3MB																																						
<p>3) Select the desired recording(s) and then click Backup.</p> <p>Note: By default all the recordings are selected.</p>	 <table border="1" data-bbox="778 1319 1394 1405"> <thead> <tr> <th>Select</th> <th>Name</th> <th>Size</th> <th>Type</th> <th>Modify Time</th> </tr> </thead> <tbody> <tr><td><input checked="" type="checkbox"/></td><td>Previous Level</td><td></td><td>dir</td><td>Mon Nov 3 13:51:56 2014</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Ch1_20141103101</td><td>48B</td><td>file</td><td>Mon Nov 3 13:51:17 2014</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>System Volume In</td><td></td><td>dir</td><td>Wed Oct 29 17:28:02 2014</td></tr> </tbody> </table>	Select	Name	Size	Type	Modify Time	<input checked="" type="checkbox"/>	Previous Level		dir	Mon Nov 3 13:51:56 2014	<input checked="" type="checkbox"/>	Ch1_20141103101	48B	file	Mon Nov 3 13:51:17 2014	<input checked="" type="checkbox"/>	System Volume In		dir	Wed Oct 29 17:28:02 2014																				
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Step	Screenshot
<p>4) Select the partition and destination folder, and then click Backup. The selected recordings are stored in the selected directory.</p> <p>Note: You may click New Folder to create a new folder and then double-click the folder to select it.</p>	

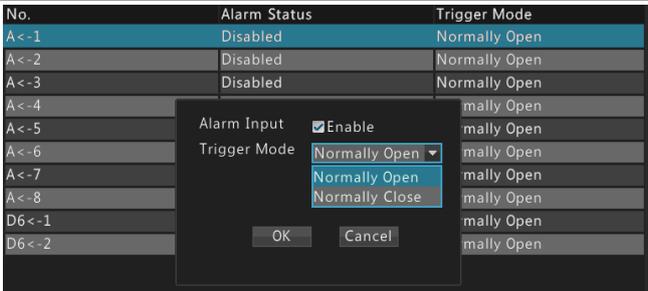


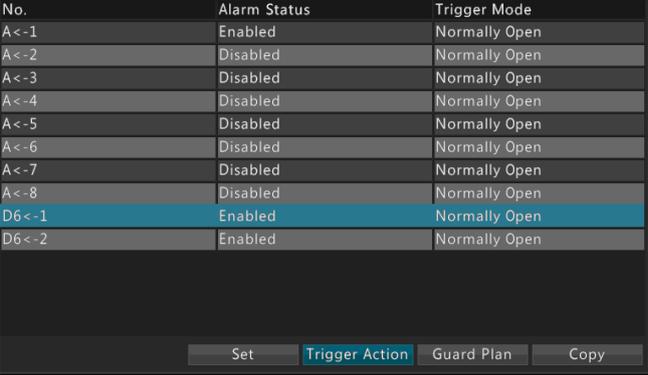
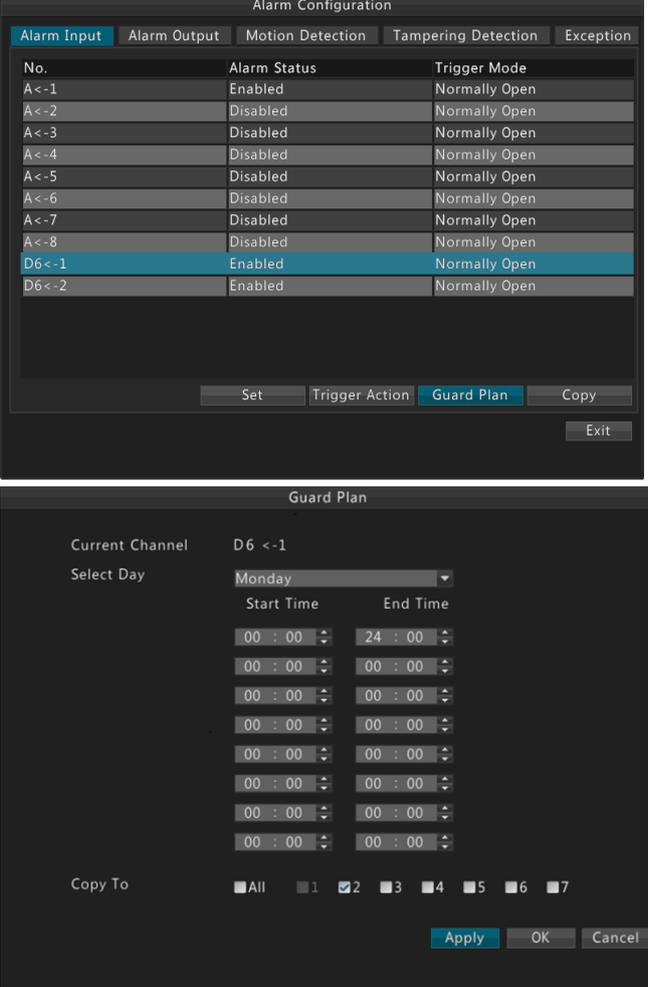
NOTE!

- 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.
- To view the current partitions or directories of the USB drive, click **Refresh**.

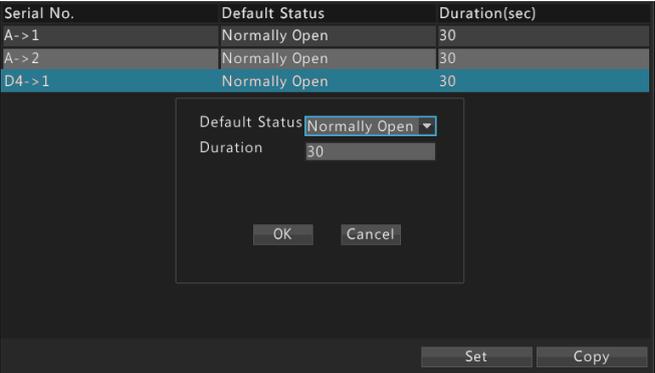
9 Alarm

Alarm Input

Step	Screenshot
<p>1) Click Menu > Alarm > Alarm Input.</p> <p>2) Select the desired channel, click Set, select Enable and the correct trigger mode, and then click OK.</p> <p>Note: To apply the same settings to other channels, select the Copy To check boxes for the intended channels.</p>	

Step	Screenshot																																																			
<p>3) Click Trigger Action. For more details, see Alarm-Triggered Actions.</p> <p>Note:</p> <ul style="list-style-type: none"> The number of channels supported may vary with device model. For the number of channels that your device supports, see the actual display on your device. The supported alarm-triggered actions may vary with device model. For the actions that your device supports, see the actual display on your device. 	 <table border="1"> <thead> <tr> <th>No.</th> <th>Alarm Status</th> <th>Trigger Mode</th> </tr> </thead> <tbody> <tr><td>A<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>A<-2</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-3</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-4</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-5</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-6</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-7</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-8</td><td>Disabled</td><td>Normally Open</td></tr> <tr style="background-color: #0070C0; color: white;"><td>D6<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>D6<-2</td><td>Enabled</td><td>Normally Open</td></tr> </tbody> </table>	No.	Alarm Status	Trigger Mode	A<-1	Enabled	Normally Open	A<-2	Disabled	Normally Open	A<-3	Disabled	Normally Open	A<-4	Disabled	Normally Open	A<-5	Disabled	Normally Open	A<-6	Disabled	Normally Open	A<-7	Disabled	Normally Open	A<-8	Disabled	Normally Open	D6<-1	Enabled	Normally Open	D6<-2	Enabled	Normally Open																		
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<p>4) Set a guard plan.</p> <ol style="list-style-type: none"> Click Guard Plan. Set the plan as required. After you have completed the configuration, click Apply. <p>Note:</p> <ul style="list-style-type: none"> 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. 	 <p>Alarm Configuration</p> <p>Alarm Input Alarm Output Motion Detection Tampering Detection Exception</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Alarm Status</th> <th>Trigger Mode</th> </tr> </thead> <tbody> <tr><td>A<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>A<-2</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-3</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-4</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-5</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-6</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-7</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-8</td><td>Disabled</td><td>Normally Open</td></tr> <tr style="background-color: #0070C0; color: white;"><td>D6<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>D6<-2</td><td>Enabled</td><td>Normally Open</td></tr> </tbody> </table> <p>Guard Plan</p> <p>Current Channel: D6 <-1</p> <p>Select Day: Monday</p> <table border="1"> <thead> <tr> <th>Start Time</th> <th>End Time</th> </tr> </thead> <tbody> <tr><td>00 : 00</td><td>24 : 00</td></tr> <tr><td>00 : 00</td><td>00 : 00</td></tr> </tbody> </table> <p>Copy To: <input type="checkbox"/> All <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7</p>	No.	Alarm Status	Trigger Mode	A<-1	Enabled	Normally Open	A<-2	Disabled	Normally Open	A<-3	Disabled	Normally Open	A<-4	Disabled	Normally Open	A<-5	Disabled	Normally Open	A<-6	Disabled	Normally Open	A<-7	Disabled	Normally Open	A<-8	Disabled	Normally Open	D6<-1	Enabled	Normally Open	D6<-2	Enabled	Normally Open	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
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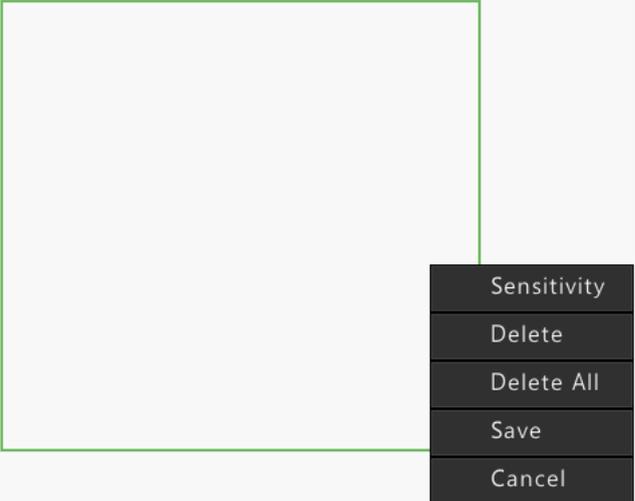
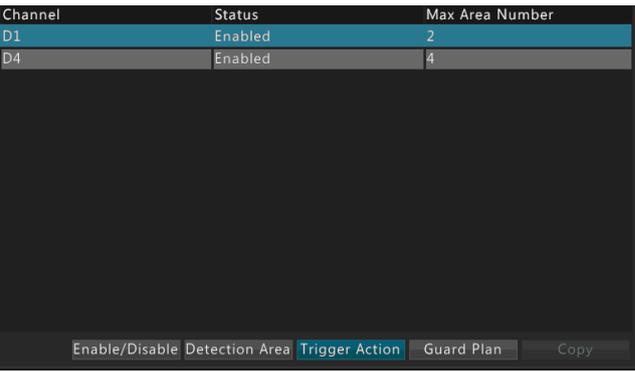
Alarm Output

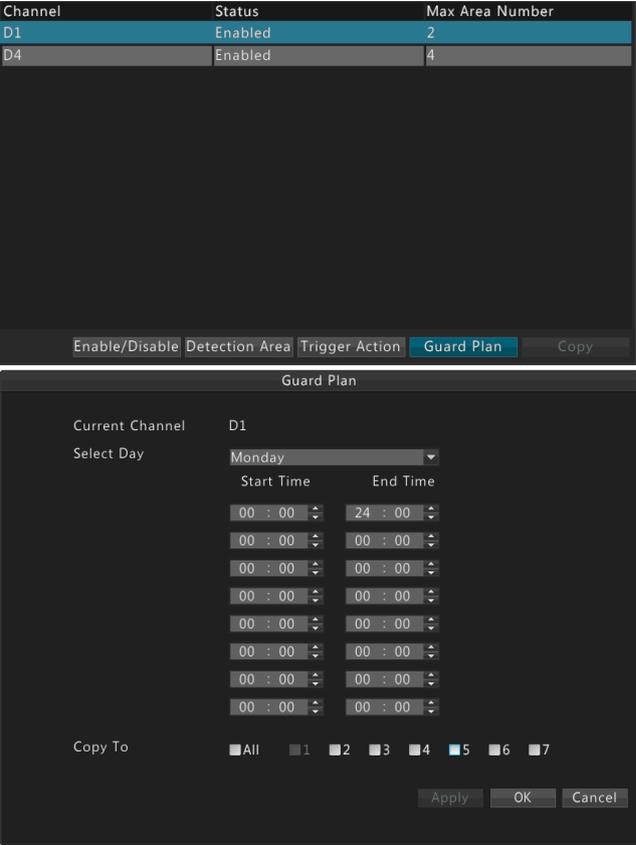
Step	Screenshot
<p>1) Click Menu > Alarm > Alarm Output.</p> <p>2) Select the desired channel, click Set, select the correct trigger mode, and set the duration.</p> <p>3) After you have completed the configuration, click OK.</p> <p>Note: To apply the same settings to other channels, click Copy and then select the desired channels.</p>	

Motion Detection

The motion detection alarm function requires you to set at least one detection area on the screen, the sensitivity of detection, and a guard plan. 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).

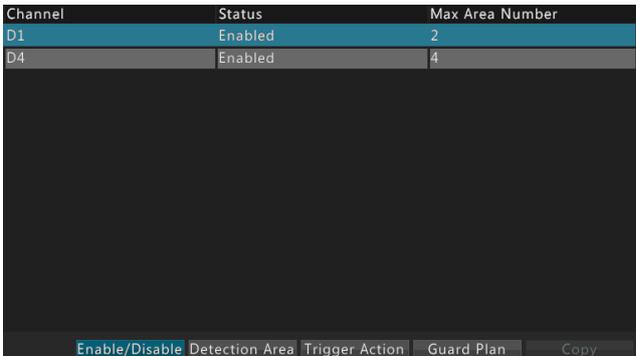
Step	Screenshot
<p>1) Click Menu > Alarm > Motion Detection.</p> <p>2) Select the camera and then click Enable/Disable to enable motion detection alarm.</p>	

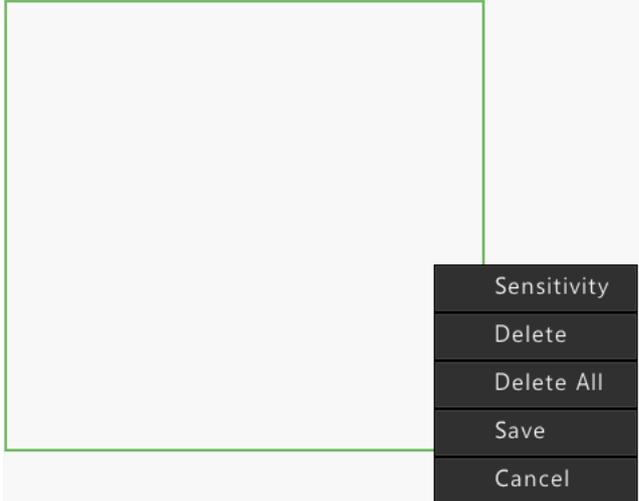
Step	Screenshot									
<p>3) Set a detection area.</p> <ol style="list-style-type: none"> Click Detection Area. Drag the mouse to set a detection area. Right-click the detection area, click Sensitivity on the pop-up menu, and then set detection sensitivity. Click Apply to complete the configuration. <p>Note: A greater value means a higher degree of detection sensitivity.</p>										
<p>4) Click Trigger Action. For more details, see Alarm-Triggered Actions.</p> <p>Note:</p> <ul style="list-style-type: none"> The number of channels supported may vary with device model. For the number of channels that your device supports, see the actual display on your device. The supported alarm-triggered actions may vary with device model. For the actions that your device supports, see the actual display on your device. 	 <table border="1"> <thead> <tr> <th>Channel</th> <th>Status</th> <th>Max Area Number</th> </tr> </thead> <tbody> <tr> <td>D1</td> <td>Enabled</td> <td>2</td> </tr> <tr> <td>D4</td> <td>Enabled</td> <td>4</td> </tr> </tbody> </table>	Channel	Status	Max Area Number	D1	Enabled	2	D4	Enabled	4
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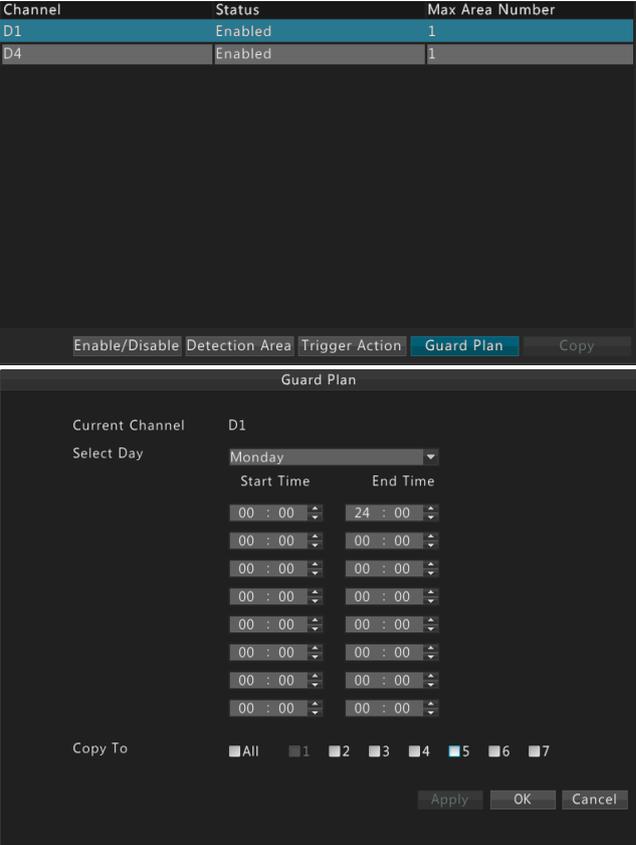
Step	Screenshot
<p>5) Set a guard plan.</p> <ol style="list-style-type: none"> Click Guard Plan. Set the plan as needed. After you have completed the configuration, click Apply. <p>Note: Up to eight time periods are allowed for each day. Overlapping time periods are not allowed.</p>	

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.

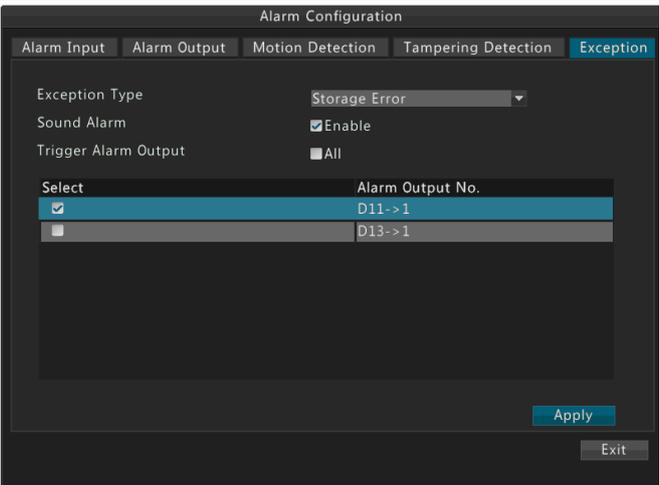
Step	Screenshot
<ol style="list-style-type: none"> Click Menu > Alarm > Tampering Detection. Select the camera and then click Enable/Disable to enable tampering detection alarm. 	

Step	Screenshot									
<p>3) Set a detection area.</p> <ol style="list-style-type: none"> Click Detection Area. Drag the mouse to set a detection area. Right-click the detection area, click Sensitivity on the pop-up menu, and then set detection sensitivity. After you have completed the configuration, click Apply. <p>Note: A greater value means a higher degree of detection sensitivity.</p>										
<p>4) Click Trigger Action. For more details, see Alarm-Triggered Actions.</p> <p>Note:</p> <ul style="list-style-type: none"> The number of channels supported may vary with device model. For the number of channels that your device supports, see the actual display on your device. The supported alarm-triggered actions may vary with device model. For the actions that your device supports, see the actual display on your device. 	 <table border="1" data-bbox="794 763 1433 827"> <thead> <tr> <th>Channel</th> <th>Status</th> <th>Max Area Number</th> </tr> </thead> <tbody> <tr> <td>D1</td> <td>Enabled</td> <td>1</td> </tr> <tr> <td>D4</td> <td>Enabled</td> <td>1</td> </tr> </tbody> </table>	Channel	Status	Max Area Number	D1	Enabled	1	D4	Enabled	1
Channel	Status	Max Area Number								
D1	Enabled	1								
D4	Enabled	1								

Step	Screenshot
<p>5) Set a guard plan.</p> <ol style="list-style-type: none"> Click Guard Plan. Set the plan as required. After you have completed the configuration, click Apply. <p>Note: Up to eight time periods are allowed for each day. Overlapping time periods are not allowed.</p>	

Exception

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

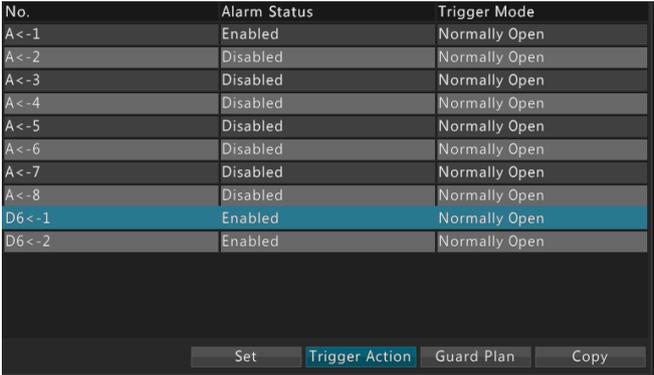
Step	Screenshot
<ol style="list-style-type: none"> Click Menu > Alarm > Exception. Select the exception type, select Enable, and then select the channel(s) for which you want to enable alarm output. After you have completed the configuration, click Apply. Click Exit. 	

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.

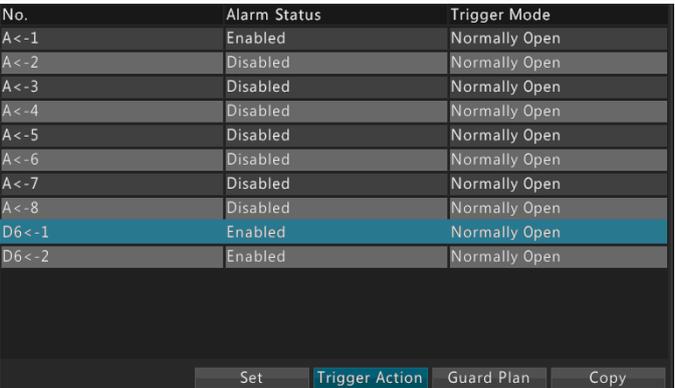
Alarm-Triggered Sound

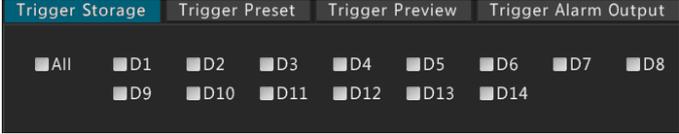
Configure alarm-triggered sound so that the device starts to sound the buzzer when an alarm is reported.

Step	Screenshot																																	
1) Click Menu > Alarm . 2) Select an alarm type by clicking the tab, and then click Trigger Action .	 <table border="1"> <thead> <tr> <th>No.</th> <th>Alarm Status</th> <th>Trigger Mode</th> </tr> </thead> <tbody> <tr><td>A<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>A<-2</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-3</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-4</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-5</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-6</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-7</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-8</td><td>Disabled</td><td>Normally Open</td></tr> <tr style="background-color: #0070C0; color: white;"><td>D6<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>D6<-2</td><td>Enabled</td><td>Normally Open</td></tr> </tbody> </table>	No.	Alarm Status	Trigger Mode	A<-1	Enabled	Normally Open	A<-2	Disabled	Normally Open	A<-3	Disabled	Normally Open	A<-4	Disabled	Normally Open	A<-5	Disabled	Normally Open	A<-6	Disabled	Normally Open	A<-7	Disabled	Normally Open	A<-8	Disabled	Normally Open	D6<-1	Enabled	Normally Open	D6<-2	Enabled	Normally Open
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3) Select Enable . Note: <i>The supported alarm-triggered actions may vary with device model. For the actions that your device supports, see the actual display on your device.</i>	 <p>Sound Alarm <input checked="" type="checkbox"/> Enable</p>																																	

Alarm-Triggered Storage

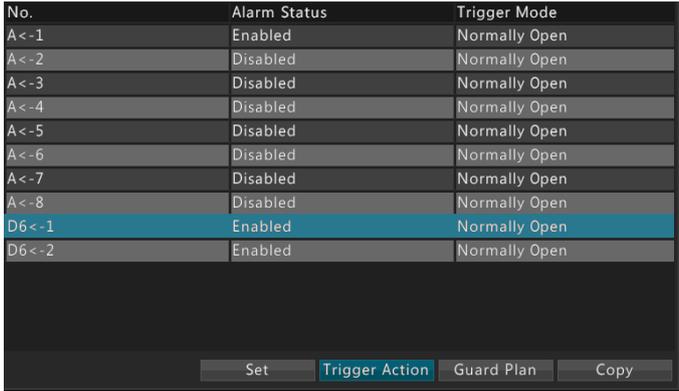
Configure alarm-triggered storage so that the device starts to record live video from the specified camera(s) when an alarm is reported.

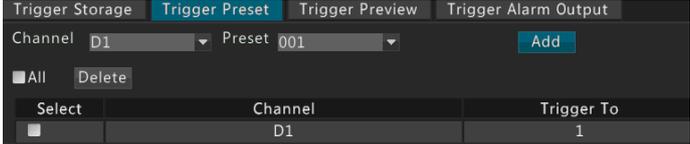
Step	Screenshot																																	
1) Click Menu > Alarm . 2) Select an alarm type by clicking the correct tab, and then click Trigger Action .	 <table border="1"> <thead> <tr> <th>No.</th> <th>Alarm Status</th> <th>Trigger Mode</th> </tr> </thead> <tbody> <tr><td>A<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>A<-2</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-3</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-4</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-5</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-6</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-7</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-8</td><td>Disabled</td><td>Normally Open</td></tr> <tr style="background-color: #0070C0; color: white;"><td>D6<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>D6<-2</td><td>Enabled</td><td>Normally Open</td></tr> </tbody> </table>	No.	Alarm Status	Trigger Mode	A<-1	Enabled	Normally Open	A<-2	Disabled	Normally Open	A<-3	Disabled	Normally Open	A<-4	Disabled	Normally Open	A<-5	Disabled	Normally Open	A<-6	Disabled	Normally Open	A<-7	Disabled	Normally Open	A<-8	Disabled	Normally Open	D6<-1	Enabled	Normally Open	D6<-2	Enabled	Normally Open
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Step	Screenshot
<p>3) On the Trigger Storage tab, select the desired channel(s) and then click Apply.</p> <p>Note:</p> <ul style="list-style-type: none"> The number of channels supported may vary with device model. For the number of channels that your device supports, see the actual display on your device. The supported alarm-triggered actions may vary with device model. For the actions that your device supports, see the actual display on your device. 	 <p>The screenshot shows a dark-themed interface with four tabs: 'Trigger Storage' (selected), 'Trigger Preset', 'Trigger Preview', and 'Trigger Alarm Output'. Below the tabs is a grid of 15 square buttons with labels: 'All', 'D1', 'D2', 'D3', 'D4', 'D5', 'D6', 'D7', 'D8' in the first row, and 'D9', 'D10', 'D11', 'D12', 'D13', 'D14' in the second row.</p>

Alarm-Triggered Preset

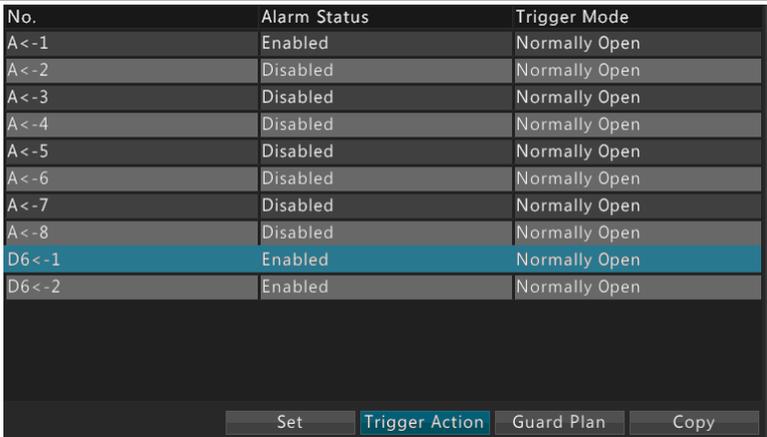
Configure alarm-triggered preset so that a PTZ camera goes to a preset position when an alarm is reported.

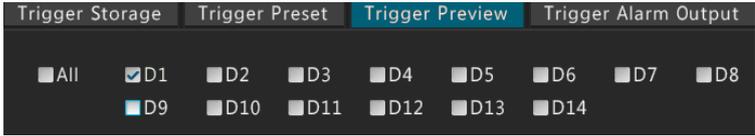
Step	Screenshot																																	
<p>1) Click Menu > Alarm.</p> <p>2) Select an alarm type by clicking the correct tab, and then click Trigger Action.</p>	 <p>The screenshot shows a table with three columns: 'No.', 'Alarm Status', and 'Trigger Mode'. The table contains the following data:</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Alarm Status</th> <th>Trigger Mode</th> </tr> </thead> <tbody> <tr><td>A<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>A<-2</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-3</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-4</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-5</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-6</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-7</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-8</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>D6<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>D6<-2</td><td>Enabled</td><td>Normally Open</td></tr> </tbody> </table> <p>Below the table, there are four buttons: 'Set', 'Trigger Action' (highlighted in blue), 'Guard Plan', and 'Copy'.</p>	No.	Alarm Status	Trigger Mode	A<-1	Enabled	Normally Open	A<-2	Disabled	Normally Open	A<-3	Disabled	Normally Open	A<-4	Disabled	Normally Open	A<-5	Disabled	Normally Open	A<-6	Disabled	Normally Open	A<-7	Disabled	Normally Open	A<-8	Disabled	Normally Open	D6<-1	Enabled	Normally Open	D6<-2	Enabled	Normally Open
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D6<-2	Enabled	Normally Open																																

Step	Screenshot
<p>3) On the Trigger Preset tab, select the desired channel and preset, and then click Add. Repeat this step to link more channels and presets as needed.</p> <p>4) After you have completed the configuration, click Apply.</p> <p>Note:</p> <ul style="list-style-type: none"> • The number of channels supported may vary with device model. For the number of channels that your device supports, see the actual display on your device. • The supported alarm-triggered actions may vary with device model. For the actions that your device supports, see the actual display on your device. 	

Alarm-Triggered Preview

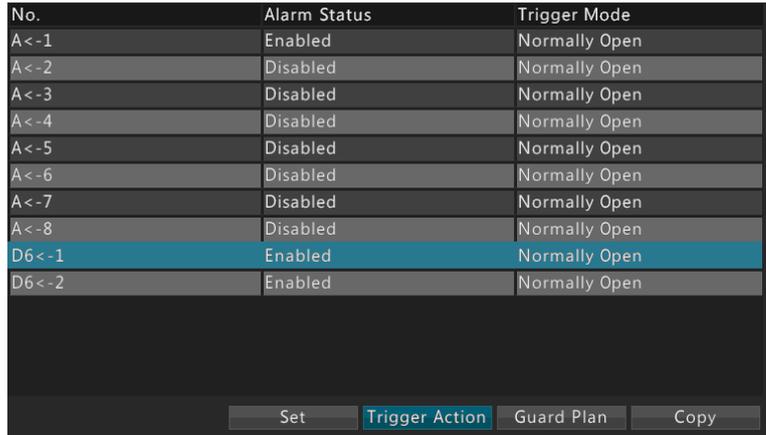
If alarm-triggered preview is enabled for a camera, the device plays live video from the camera in full screen when the camera reports an alarm, and then the device switches to the next screen at the set interval. An alarm icon is displayed on the screen with the live video from the camera for differentiation.

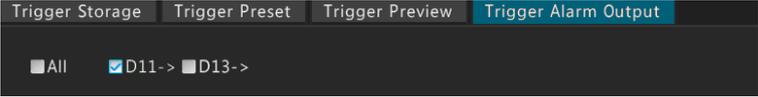
Step	Screenshot																																	
<p>1) Click Menu > Alarm.</p> <p>2) Select an alarm type by clicking the correct tab, and then click Trigger Action.</p>	 <table border="1" data-bbox="675 1231 1442 1530"> <thead> <tr> <th>No.</th> <th>Alarm Status</th> <th>Trigger Mode</th> </tr> </thead> <tbody> <tr><td>A<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>A<-2</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-3</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-4</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-5</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-6</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-7</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-8</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>D6<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>D6<-2</td><td>Enabled</td><td>Normally Open</td></tr> </tbody> </table>	No.	Alarm Status	Trigger Mode	A<-1	Enabled	Normally Open	A<-2	Disabled	Normally Open	A<-3	Disabled	Normally Open	A<-4	Disabled	Normally Open	A<-5	Disabled	Normally Open	A<-6	Disabled	Normally Open	A<-7	Disabled	Normally Open	A<-8	Disabled	Normally Open	D6<-1	Enabled	Normally Open	D6<-2	Enabled	Normally Open
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D6<-2	Enabled	Normally Open																																

Step	Screenshot
<p>3) On the Trigger Preview tab, select the desired channel(s) and then click Apply.</p> <p>Note:</p> <ul style="list-style-type: none"> The number of channels supported may vary with device model. For the number of channels that your device supports, see the actual display on your device. The supported alarm-triggered actions may vary with device model. For the actions that your device supports, see the actual display on your device. 	 <p>The screenshot shows a dark-themed interface with four tabs: 'Trigger Storage', 'Trigger Preset', 'Trigger Preview' (which is selected and highlighted in blue), and 'Trigger Alarm Output'. Below the tabs is a grid of channel selection options. Each option consists of a small square icon followed by a label. The labels are: 'All', 'D1', 'D2', 'D3', 'D4', 'D5', 'D6', 'D7', 'D8' in the first row; and 'D9', 'D10', 'D11', 'D12', 'D13', 'D14' in the second row. The 'D1' and 'D9' options have their square icons checked, indicating they are selected.</p>

Alarm-Triggered Alarm Output

Configure alarm-triggered output so that the device triggers the action of a third-party device by outputting an alarm.

Step	Screenshot																																	
<p>1) Click Menu > Alarm.</p> <p>2) Select an alarm type by clicking the correct tab, and then click Trigger Action.</p>	 <p>The screenshot shows a table with three columns: 'No.', 'Alarm Status', and 'Trigger Mode'. The rows are as follows:</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Alarm Status</th> <th>Trigger Mode</th> </tr> </thead> <tbody> <tr><td>A<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>A<-2</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-3</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-4</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-5</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-6</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-7</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>A<-8</td><td>Disabled</td><td>Normally Open</td></tr> <tr><td>D6<-1</td><td>Enabled</td><td>Normally Open</td></tr> <tr><td>D6<-2</td><td>Enabled</td><td>Normally Open</td></tr> </tbody> </table> <p>Below the table, there are four buttons: 'Set', 'Trigger Action' (which is highlighted in blue), 'Guard Plan', and 'Copy'.</p>	No.	Alarm Status	Trigger Mode	A<-1	Enabled	Normally Open	A<-2	Disabled	Normally Open	A<-3	Disabled	Normally Open	A<-4	Disabled	Normally Open	A<-5	Disabled	Normally Open	A<-6	Disabled	Normally Open	A<-7	Disabled	Normally Open	A<-8	Disabled	Normally Open	D6<-1	Enabled	Normally Open	D6<-2	Enabled	Normally Open
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A<-8	Disabled	Normally Open																																
D6<-1	Enabled	Normally Open																																
D6<-2	Enabled	Normally Open																																

Step	Screenshot
<p>3) On the Trigger Alarm Output tab, select the desired channel(s) and then click Apply.</p> <p>Note:</p> <ul style="list-style-type: none"> • <i>The number of channels supported may vary with device model. For the number of channels that your device supports, see the actual display on your device.</i> • <i>The supported alarm-triggered actions may vary with device model. For the actions that your device supports, see the actual display on your device.</i> 	 <p>The screenshot shows a dark-themed interface with four tabs: 'Trigger Storage', 'Trigger Preset', 'Trigger Preview', and 'Trigger Alarm Output'. The 'Trigger Alarm Output' tab is active and highlighted in blue. Below the tabs, there are three selection options: a radio button for 'All', a checked radio button for 'D11->', and a radio button for 'D13->'.</p>

10 Network Configuration

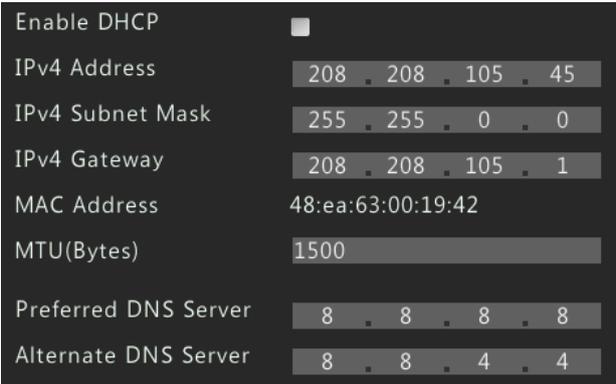
Network configuration is required if the device operates in a network.



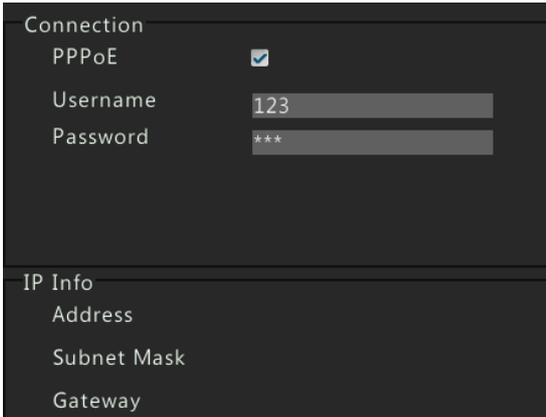
NOTE!

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.

Basic Configuration

Step	Screenshot
<p>1) Click Menu > Network > Basic.</p> <p>2) Set the network parameters, including IPv4 address, subnet mask, and gateway.</p> <p>3) After you have completed the configuration, click OK.</p> <p>Note:</p> <ul style="list-style-type: none"> • If a DHCP server is used on the network, you may 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. 	 <p>The screenshot shows a network configuration window with the following settings:</p> <ul style="list-style-type: none"> 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

PPPoE

Step	Screenshot
<p>1) Click Menu > Network > PPPoE.</p> <p>2) Select PPPoE, and then enter the correct username and password provided by your ISP. The network information will be displayed under IP Info.</p> <p>3) After you have completed the configuration, click OK.</p>	 <p>The screenshot shows the PPPoE configuration window with the following settings:</p> <ul style="list-style-type: none"> Connection: PPPoE <input checked="" type="checkbox"/> Username: 123 Password: *** IP Info: <ul style="list-style-type: none"> Address Subnet Mask Gateway

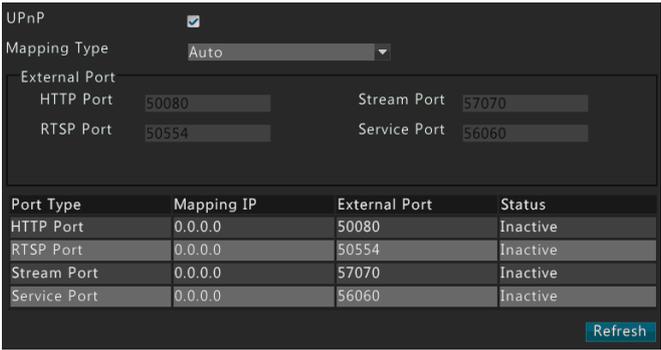
DDNS

Step	Screenshot
<ol style="list-style-type: none"> 1) Click Menu > Network > DDNS. 2) Select DDNS. 3) After you have completed the configuration, click OK. 	

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.

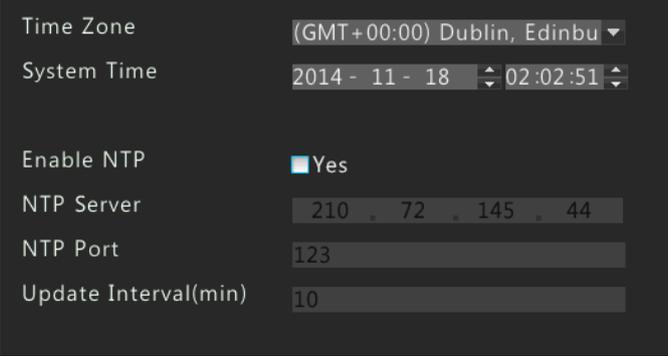
Step	Screenshot																				
<ol style="list-style-type: none"> 1) Click Menu > Network > UPnP. 2) By default UPnP is enabled. You may select a mapping type as needed. If you select Manual, you need to set the external ports. 3) Click Refresh and check whether the status in the Status column is updated. 4) After you have completed the configuration, click OK. 	 <table border="1" data-bbox="778 1159 1426 1276"> <thead> <tr> <th>Port Type</th> <th>Mapping IP</th> <th>External Port</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>HTTP Port</td> <td>0.0.0.0</td> <td>50080</td> <td>Inactive</td> </tr> <tr> <td>RTSP Port</td> <td>0.0.0.0</td> <td>50554</td> <td>Inactive</td> </tr> <tr> <td>Stream Port</td> <td>0.0.0.0</td> <td>57070</td> <td>Inactive</td> </tr> <tr> <td>Service Port</td> <td>0.0.0.0</td> <td>56060</td> <td>Inactive</td> </tr> </tbody> </table>	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
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11 System Configuration

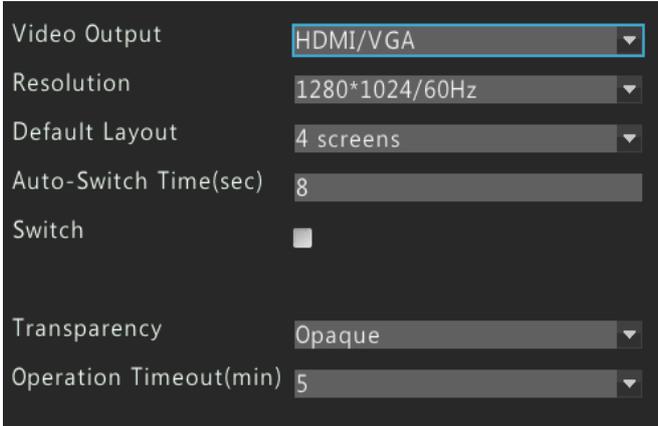
Basic Configuration

Step	Screenshot
<p>1) Click Menu > System > Basic.</p> <p>2) Configure the parameters.</p> <p>3) After you have completed the configuration, click OK.</p> <p>Note:</p> <ul style="list-style-type: none">• Only admin can configure the Enable Password parameter.• If Enable Password is not selected, no password is required for login to the device.	 <p>The screenshot shows a configuration interface with the following fields and values:</p> <ul style="list-style-type: none">Device Name: NVRDevice ID: 1Enable Audio Out: <input type="checkbox"/> YesEnable Startup Wizard: <input checked="" type="checkbox"/> YesEnable Password: <input checked="" type="checkbox"/> Yes

Time Configuration

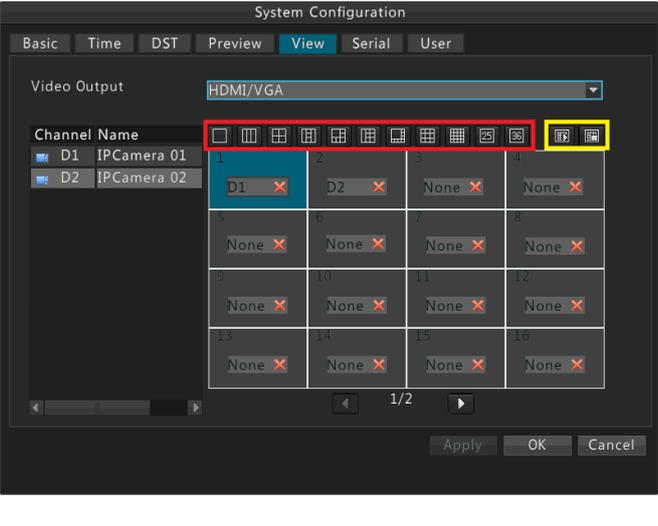
Step	Screenshot
<p>1) Click Menu > System > Time.</p> <p>2) Select the correct time zone and set the system time manually. You may also select Enable NTP and then set the IP address and port number of the NTP server and the update interval.</p> <p>3) After you have completed the configuration, click OK.</p>	 <p>The screenshot shows a configuration interface with the following fields and values:</p> <ul style="list-style-type: none">Time Zone: (GMT+00:00) Dublin, EdinbuSystem Time: 2014 - 11 - 18 02:02:51Enable NTP: <input checked="" type="checkbox"/> YesNTP Server: 210 . 72 . 145 . 44NTP Port: 123Update Interval(min): 10

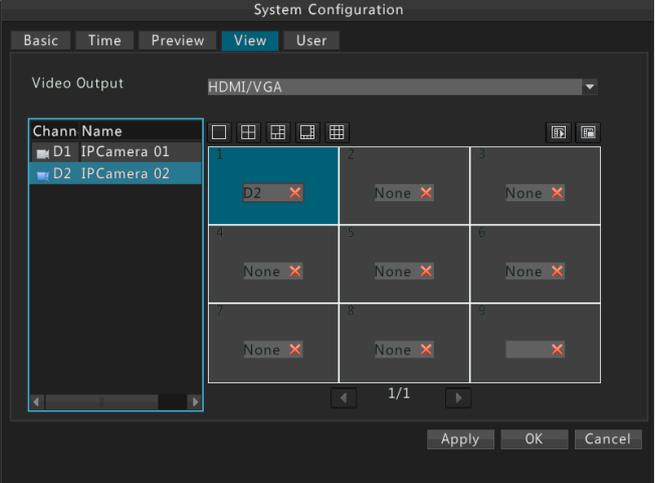
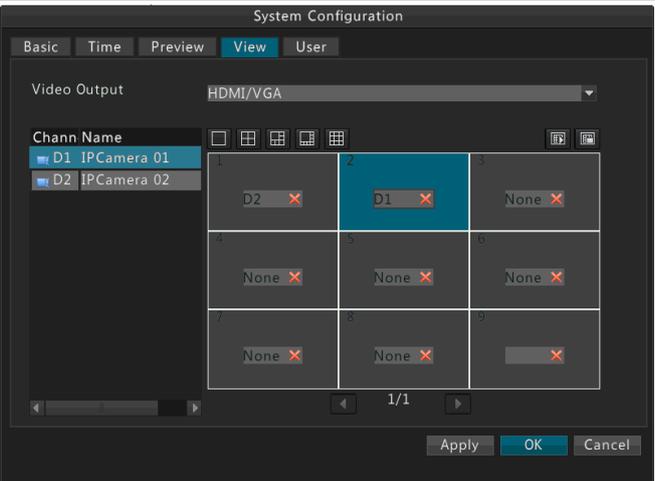
Preview Configuration

Step	Screenshot
<p>1) Click Menu > System > Preview.</p> <p>2) Configure the parameters.</p> <p>3) After you have completed the configuration, click OK.</p> <p>Note: Depending on your device model, the supported output interfaces and number of screens may be different. See the actual display on your device.</p>	

View Configuration

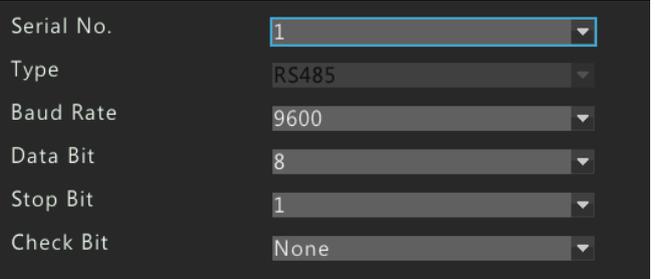
View configuration is used to link channels to preview panes dynamically.

Step	Screenshot
<p>1) Click Menu > System > View.</p> <p>Note:</p> <ul style="list-style-type: none"> 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. 	

Step	Screenshot
<p>2) 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.</p>	
<p>3) 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.</p> <p>4) After you have completed the configuration, click OK.</p>	

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.

Step	Screenshot
<p>1) Click Menu > System > Serial.</p> <p>2) Configure the parameters for the serial port.</p> <p>3) After you have completed the configuration, click OK.</p>	

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.

Admin is the default super administrator of the system and has full permissions. The initial password for admin is 123456. Admin can change his own password but cannot be deleted. Only admin can manage users.

There are two user types in the system:

- 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.

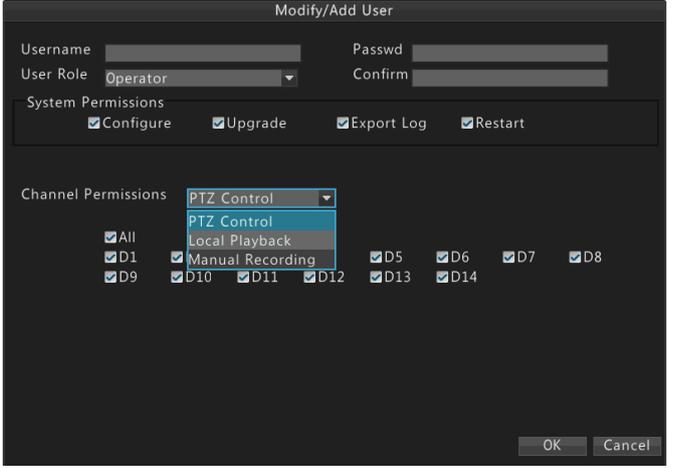
Adding a User

Only admin can add users.



NOTE!

The system allows up to eight users including admin.

Step	Screenshot
1) Click Menu > System User. 2) Add a user. a. Click Add.	
b. Set the username, password, user role and permissions. c. After you have completed the configuration, click OK.	

Deleting a User

Only admin can delete users.

Step	Screenshot
1) Click Menu > System > User . 2) Select the desired user(s) and then click Delete . 3) After you have completed the configuration, click OK .	<p>A screenshot of a user management interface. It features a table with columns 'Select', 'Username', and 'Role'. The first row shows 'admin' with the role 'Administrator'. The second row shows '123' with the role 'Operator' and is highlighted in blue. Below the table are three buttons: 'Add', 'Delete', and 'Modify'.</p>

Modifying a User

Only admin can modify other users' passwords, roles and permissions.

Step	Screenshot
1) Click Menu > System > User . 2) Modify user information. a. Select the desired user and then click Modify .	<p>A screenshot of the user management interface, similar to the previous one, but the 'Modify' button is highlighted in blue.</p>
b. Modify the password, role and permission as needed. c. After you have completed the configuration, click OK . Note: <i>The user must use the new password to log in after the password is changed.</i>	<p>A screenshot of the 'Modify/Add User' dialog box. It contains fields for 'Username' (123), 'User Role' (Operator), 'Passwd' (masked), and 'Confirm' (masked). Below these are 'System Permissions' (Configure, Upgrade, Export Log, Restart) and 'Channel Permissions' (PTZ Control, Local Playback, Manual Recording, D1-D14). 'OK' and 'Cancel' buttons are at the bottom.</p>

12 System Maintenance

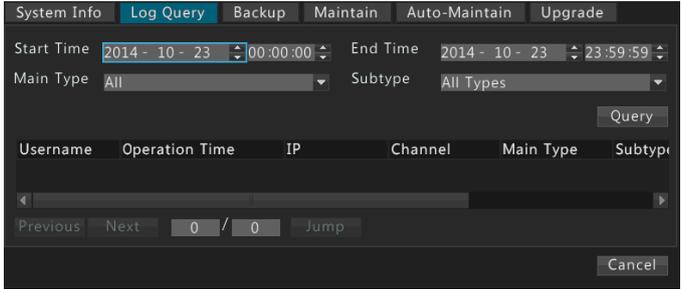
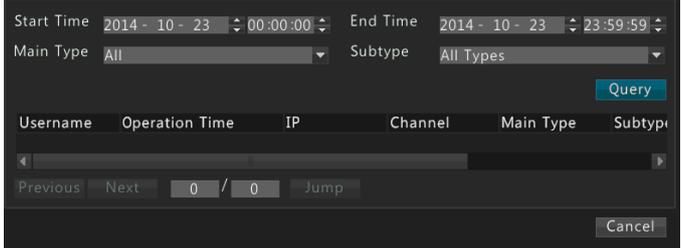
System Information

View the basic information about the device for maintenance purpose.

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

Log Query

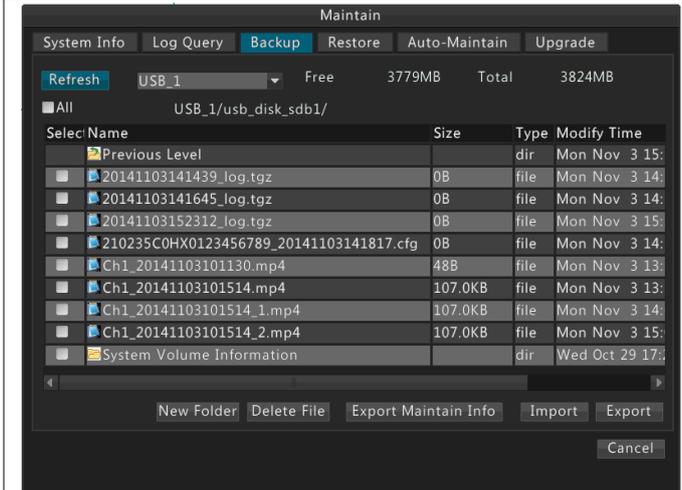
Logs record operations performed by users and device operation status. By analyzing logs, you can keep track of device operation status and view detailed alarm information.

Step	Screenshot
1) Click Menu > Maintenance > Log Query .	 <p>The screenshot shows the 'Log Query' interface with the following elements: <ul style="list-style-type: none"> Navigation tabs: System Info, Log Query, Backup, Maintain, Auto-Maintain, Upgrade. Start Time: 2014 - 10 - 23 00:00:00 End Time: 2014 - 10 - 23 23:59:59 Main Type: All Subtype: All Types Query button Table headers: Username, Operation Time, IP, Channel, Main Type, Subtype Navigation: Previous, Next, 0 / 0, Jump Cancel button </p>
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.	 <p>The screenshot shows the 'Log Query' interface with the following elements: <ul style="list-style-type: none"> Navigation tabs: System Info, Log Query, Backup, Maintain, Auto-Maintain, Upgrade. Start Time: 2014 - 10 - 23 00:00:00 End Time: 2014 - 10 - 23 23:59:59 Main Type: All Subtype: All Types Query button Table headers: Username, Operation Time, IP, Channel, Main Type, Subtype Navigation: Previous, Next, 0 / 0, Jump Cancel button </p>

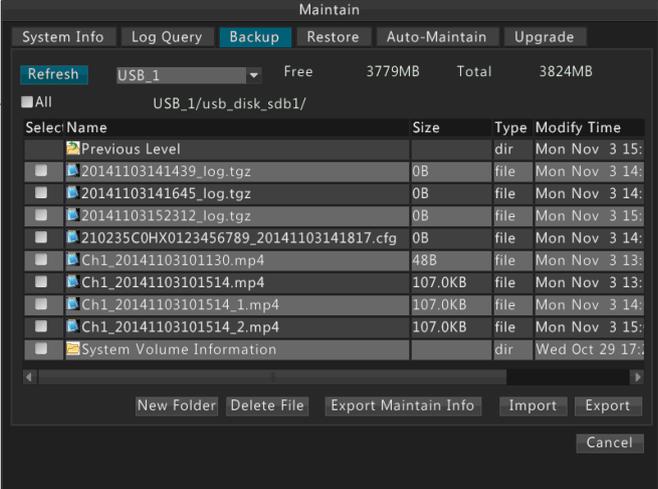
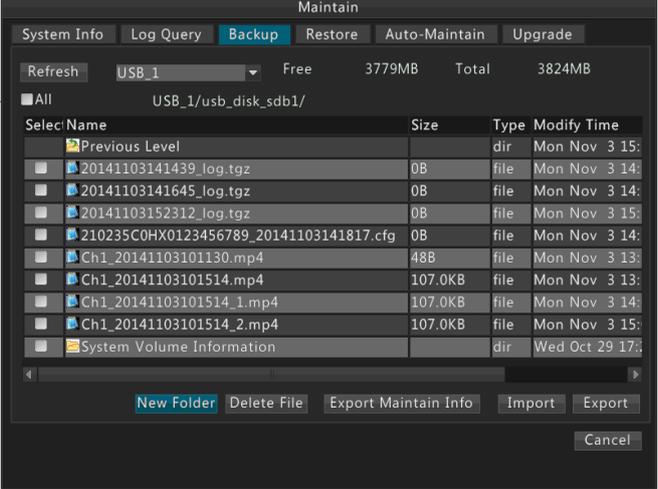
System Backup

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

Step	Screenshot																																																							
1) Click Menu > Maintain > Backup . 2) Select the desired USB partition from the drop-down list and then click Refresh to display the current information about the capacity of and directories in the selected partition.	 <p>The screenshot shows the 'Backup' interface with the following elements: <ul style="list-style-type: none"> Navigation tabs: System Info, Log Query, Backup, Restore, Auto-Maintain, Upgrade. Refresh button USB partition: USB_1 Free space: 3779MB Total space: 3824MB Selected partition: USB_1/usb_disk_sdb1/ Table headers: Select, Name, Size, Type, Modify Time Table content: <table border="1"> <thead> <tr> <th>Select</th> <th>Name</th> <th>Size</th> <th>Type</th> <th>Modify Time</th> </tr> </thead> <tbody> <tr> <td></td> <td>Previous Level</td> <td></td> <td>dir</td> <td>Mon Nov 3 15:...</td> </tr> <tr> <td></td> <td>20141103141439_log.tgz</td> <td>0B</td> <td>file</td> <td>Mon Nov 3 14:...</td> </tr> <tr> <td></td> <td>20141103141645_log.tgz</td> <td>0B</td> <td>file</td> <td>Mon Nov 3 14:...</td> </tr> <tr> <td></td> <td>20141103152312_log.tgz</td> <td>0B</td> <td>file</td> <td>Mon Nov 3 15:...</td> </tr> <tr> <td></td> <td>210235C0HX0123456789_20141103141817.cfg</td> <td>0B</td> <td>file</td> <td>Mon Nov 3 14:...</td> </tr> <tr> <td></td> <td>Ch1_20141103101130.mp4</td> <td>48B</td> <td>file</td> <td>Mon Nov 3 13:...</td> </tr> <tr> <td></td> <td>Ch1_20141103101514.mp4</td> <td>107.0KB</td> <td>file</td> <td>Mon Nov 3 13:...</td> </tr> <tr> <td></td> <td>Ch1_20141103101514_1.mp4</td> <td>107.0KB</td> <td>file</td> <td>Mon Nov 3 14:...</td> </tr> <tr> <td></td> <td>Ch1_20141103101514_2.mp4</td> <td>107.0KB</td> <td>file</td> <td>Mon Nov 3 15:...</td> </tr> <tr> <td></td> <td>System Volume Information</td> <td></td> <td>dir</td> <td>Wed Oct 29 17:...</td> </tr> </tbody> </table> Navigation: New Folder, Delete File, Export Maintain Info, Import, Export Cancel button </p>	Select	Name	Size	Type	Modify Time		Previous Level		dir	Mon Nov 3 15:...		20141103141439_log.tgz	0B	file	Mon Nov 3 14:...		20141103141645_log.tgz	0B	file	Mon Nov 3 14:...		20141103152312_log.tgz	0B	file	Mon Nov 3 15:...		210235C0HX0123456789_20141103141817.cfg	0B	file	Mon Nov 3 14:...		Ch1_20141103101130.mp4	48B	file	Mon Nov 3 13:...		Ch1_20141103101514.mp4	107.0KB	file	Mon Nov 3 13:...		Ch1_20141103101514_1.mp4	107.0KB	file	Mon Nov 3 14:...		Ch1_20141103101514_2.mp4	107.0KB	file	Mon Nov 3 15:...		System Volume Information		dir	Wed Oct 29 17:...
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Creating a Folder in the USB Drive

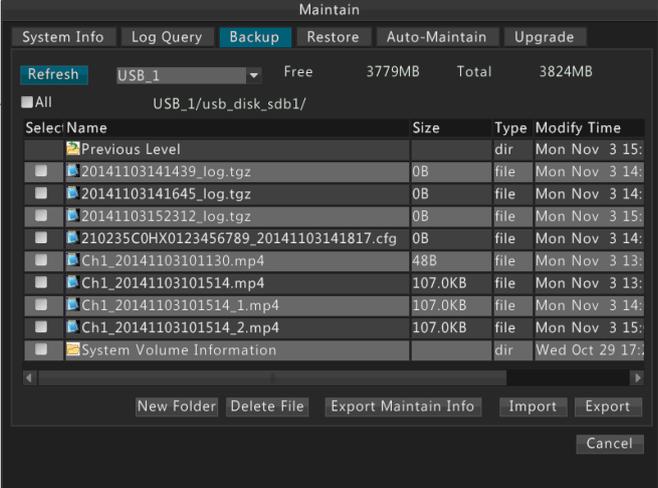
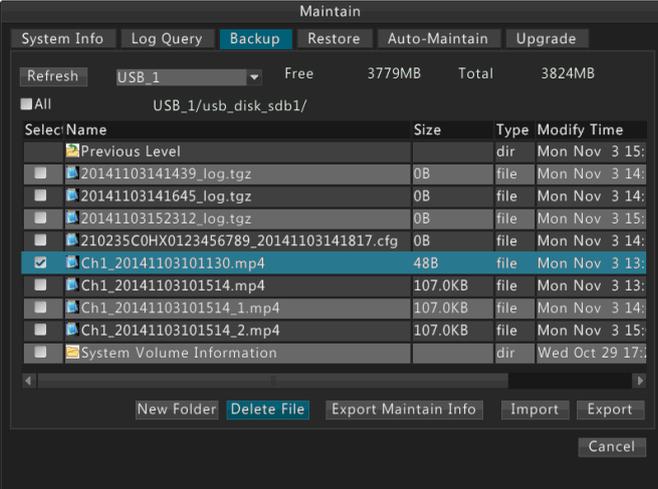
Step	Screenshot
<p>1) Click Menu > Maintain > Backup.</p>	
<p>2) Select the desired USB partition from the drop-down list.</p> <p>3) Click New Folder and then enter the folder name in the dialog box.</p> <p>Note: <i>You may also open an existing folder by double-clicking it and then create a new folder.</i></p>	

Deleting a File or Folder from the USB Drive



NOTE!

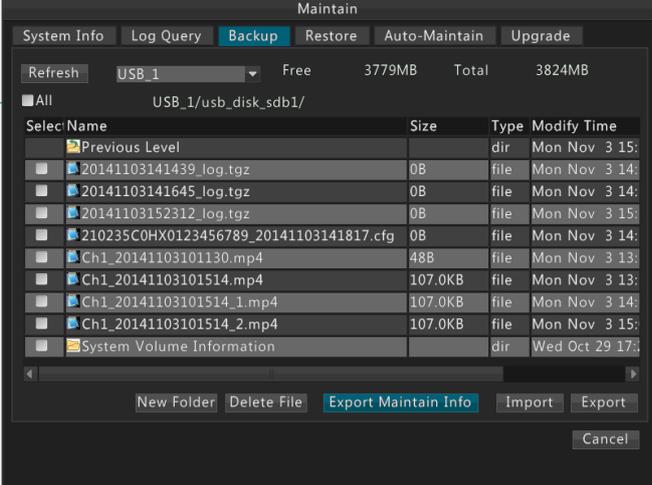
Perform this operation with caution. The delete operation is irreversible.

Step	Screenshot
<p>1) Click Menu > Maintain > Backup.</p>	
<p>2) Select the desired USB partition from the drop-down list and then select the file or folder you want to delete.</p> <p>3) Click Delete File and then click OK to confirm the operation.</p>	

Exporting Maintenance Information

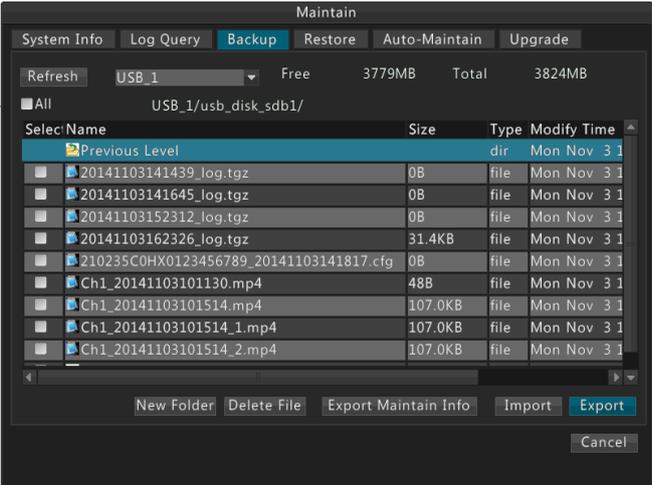
Only admin can perform this operation.

Step	Screenshot
<p>1) Click Menu > Maintain > Backup.</p>	

Step	Screenshot
<ol style="list-style-type: none"> 2) Select the destination folder by double-clicking the desired directory in the list. 3) Click Export Maintain Info. A file named *.tgz will be created in the selected folder if the export operation is successful. 	 <p>The screenshot shows the 'Maintain' window with the 'Backup' tab selected. The file list includes folders like 'Previous Level' and files such as '20141103141439_log.tgz', '20141103141645_log.tgz', '20141103152312_log.tgz', '210235C0HX0123456789_20141103141817.cfg', 'Ch1_20141103101130.mp4', 'Ch1_20141103101514.mp4', 'Ch1_20141103101514_1.mp4', 'Ch1_20141103101514_2.mp4', and 'System Volume Information'. The 'Export Maintain Info' button is highlighted in blue.</p>

Exporting System Configurations

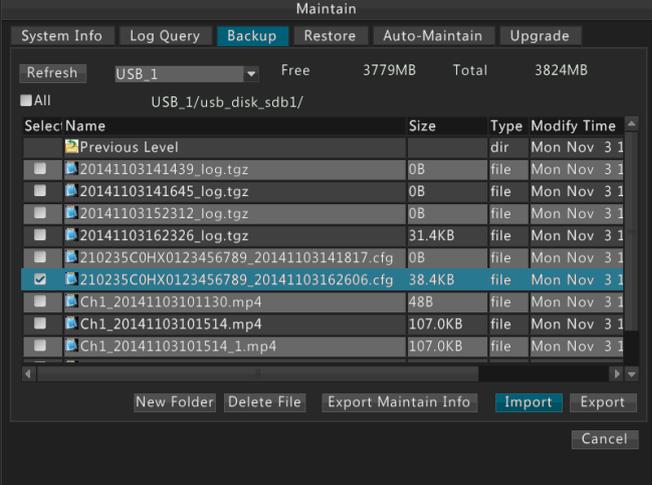
Only admin can perform this operation.

Step	Screenshot
<ol style="list-style-type: none"> 1) Click Menu > Maintain > Backup. 	-
<ol style="list-style-type: none"> 2) Select the destination folder by double-clicking the desired directory in the list. 3) Click Export. A file named *.cfg will be created in the selected folder if the export operation is successful. 	 <p>The screenshot shows the 'Maintain' window with the 'Backup' tab selected. The file list is similar to the previous screenshot, but the 'Export' button is highlighted in blue.</p>

Importing System Configurations

After an irrecoverable fault has occurred, you can quickly restore the system by importing the system configurations that you have backed up. Only admin can perform this operation.

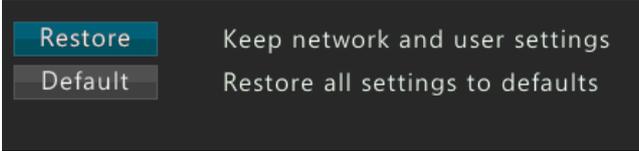
Step	Screenshot
<ol style="list-style-type: none"> 1) Click Menu > Maintain > Backup. 	-

Step	Screenshot
<p>2) Double-click the directory in the list, select the correct file (named *.cfg), click Import, and then click OK.</p>	

System Restoration

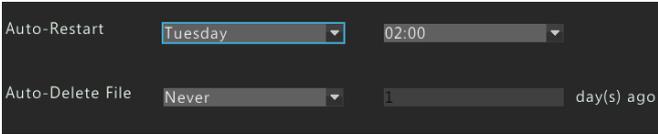
The system can be restored in two ways:

- **Restore:** All settings, except network settings and user settings, will be restored to the defaults.
- **Default:** All settings will be restored to the defaults.

Step	Screenshot
<p>1) Click Menu > Maintain > Restore.</p> <p>2) Click Restore or Default as required, and then click OK. The device will restart and restore the system according to the mode you have chosen.</p> <p>Note: Recorded videos and operation logs will not be deleted if you click Default.</p>	

Auto-Maintain

Only admin can perform this operation.

Step	Screenshot
<p>1) Click Menu > Maintain > Auto-Maintain.</p> <p>2) Set when the system automatically restarts and deletes files as required.</p> <p>Note: Files that are deleted automatically cannot be recovered.</p>	

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.
- Upgrade by cloud: upgrade the device by using a server.



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.
- Before you start an upgrade by cloud, check that the DNS server is operating correctly. Check and modify the DNS server if necessary (**Menu > Network > Basic**).

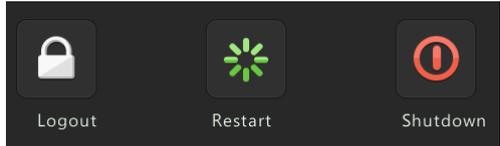
Step	Screenshot
<p>1) Click Menu > Maintain > Upgrade.</p> <p>2) Upgrade the device using one of the following methods.</p> <ul style="list-style-type: none"> • Local upgrade <ol style="list-style-type: none"> a. Click Upgrade. b. Select the directory containing the upgrade file in the USB drive and then click Upgrade. • Upgrade by cloud <ol style="list-style-type: none"> a. Click Check to check for a new version. <p>If a latest version is available, the version number and the release time are displayed. Click Upgrade to start.</p> <p>If the current version is already the latest, a notification message will be displayed.</p> <p>Note: <i>Upgrade by cloud is affected by the network transmission speed.</i></p> 	<p>The top screenshot shows the 'Maintain' menu with the 'Upgrade' tab selected. Under 'Upgrade by Cloud', the 'Current Version' is B2306P30 and the 'Latest Version' is blank. The 'Check' button is highlighted.</p> <p>The bottom screenshot shows the 'Maintain' menu with the 'Upgrade' tab selected. Under 'Upgrade by Cloud', the 'Current Version' is B2306P35 and the 'Latest Version' is blank. The 'Check' button is highlighted.</p>

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.

Step	Screenshot
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 parameters and parameter values, see the actual 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.

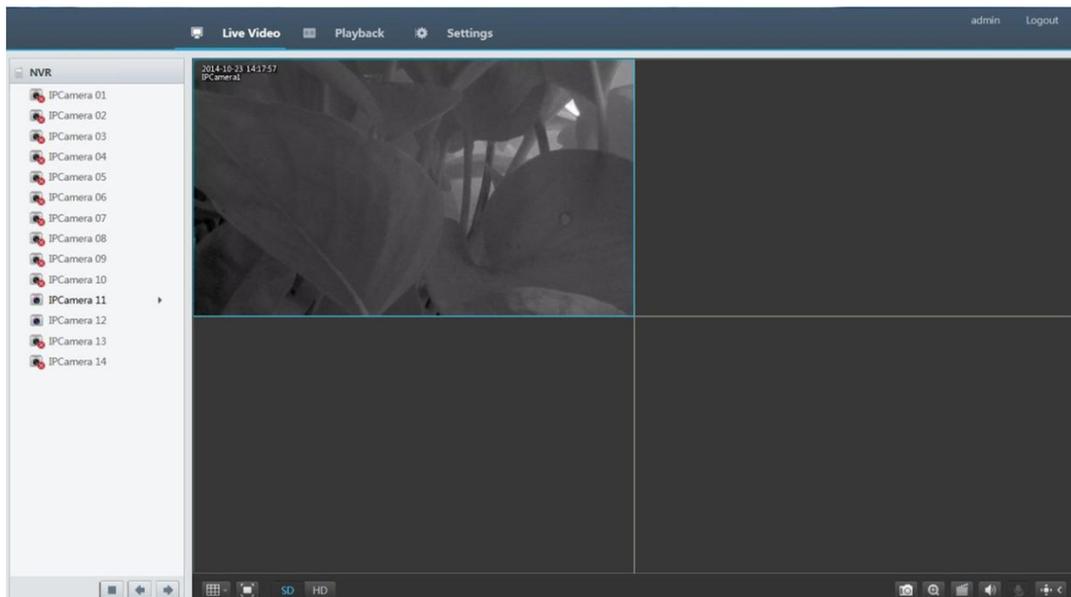
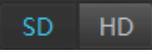


Table 3-1 Live View Control Buttons

Button	Description	Button	Description
	Start/stop preview for all panes		Previous screen/next screen
	Start/stop talk		Adjust microphone volume
	Switch screen layout		Set the clarity of images

Button	Description	Button	Description
	Display in full screen mode		Take a snapshot
	Start 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 Mar.11, 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.

Step	Screenshot
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.	

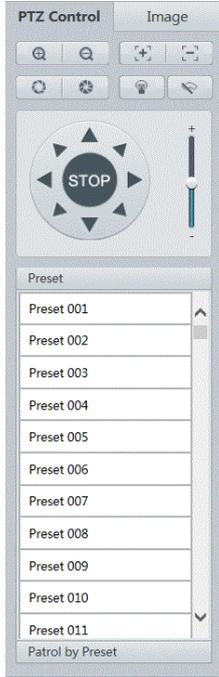
Step	Screenshot
<p>3) Control the PTZ camera using the buttons described in the table below.</p>	 <p>The screenshot shows a control interface for a PTZ camera. At the top, there are two tabs: 'PTZ Control' and 'Image'. Below the tabs are several icons for zooming, panning, and other camera functions. The central part of the interface features a circular directional pad with eight arrows and a 'STOP' button in the center. To the right of this pad is a vertical slider for adjusting rotation speed. Below these controls is a 'Preset' list containing 11 entries from 'Preset 001' to 'Preset 011', with a 'Patrol by Preset' option at the bottom.</p>

Table 3-2 PTZ Control Pane Description

Button	Description
 <p>A circular button with eight directional arrows pointing outwards and the word 'STOP' in the center.</p>	<p>Control the rotation direction of a PTZ camera.</p>
 <p>A set of six buttons arranged in a 2x3 grid. The top row contains zoom in (+) and zoom out (-) buttons. The middle row contains pan left and pan right buttons. The bottom row contains iris/focus in and iris/focus out buttons.</p>	<p>Adjust the zoom, focus, and iris of the camera lens. Note: 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.</p>
 <p>A vertical slider control with a plus sign at the top and a minus sign at the bottom, used for adjusting rotation speed.</p>	<p>Set the rotation speed of a PTZ camera.</p>

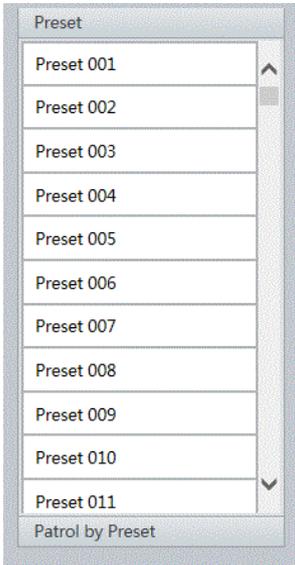
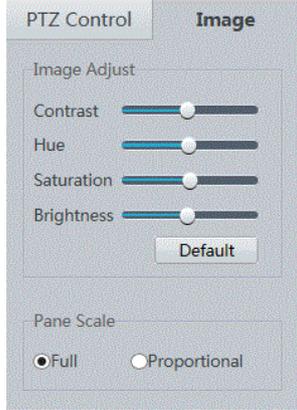
Button	Description
 <p>A vertical list of buttons labeled 'Preset 001' through 'Preset 011', with a 'Patrol by Preset' button at the bottom. The list has scroll arrows on the right side.</p>	Preset list.
 <p>A button with a lightbulb icon.</p>	Control the light.
 <p>A button with a wiper icon.</p>	Control the wiper.

Image Settings

Step	Screenshot
<ol style="list-style-type: none"> 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. 	-
<ol style="list-style-type: none"> 3) Use the sliders to set the contrast, hue, saturation and brightness of images in preview status. Set the pane scale as needed. 	 <p>The screenshot shows the 'Image Adjust' control panel. It has two tabs: 'PTZ Control' and 'Image'. Under 'Image Adjust', there are four sliders: Contrast, Hue, Saturation, and Brightness. Below the sliders is a 'Default' button. At the bottom, there is a 'Pane Scale' section with two radio buttons: 'Full' (selected) and 'Proportional'.</p>

4 Playback

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

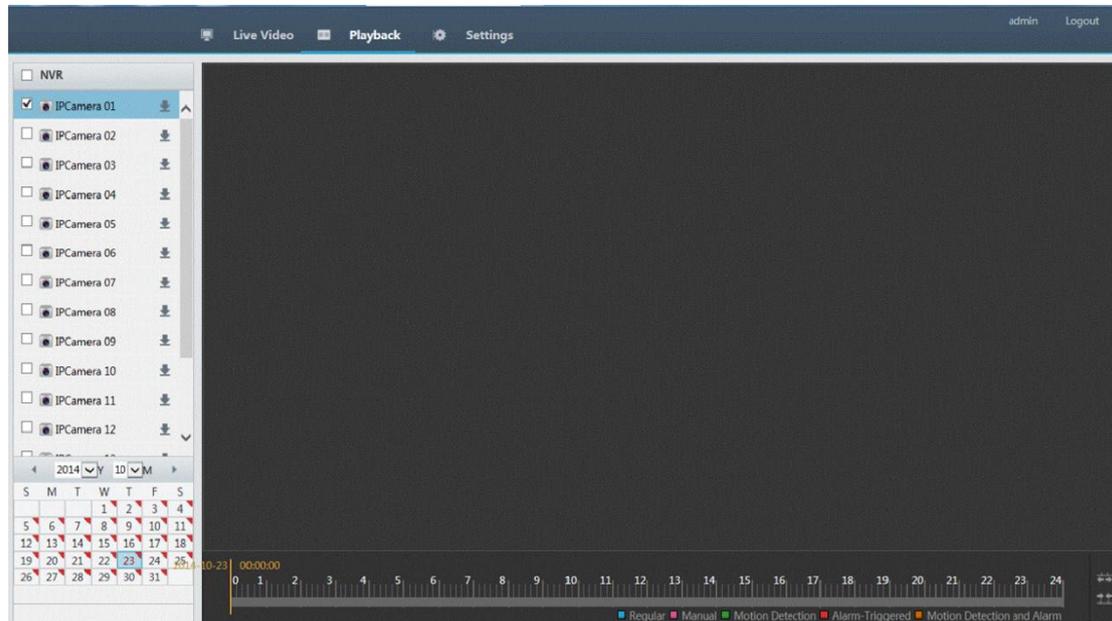
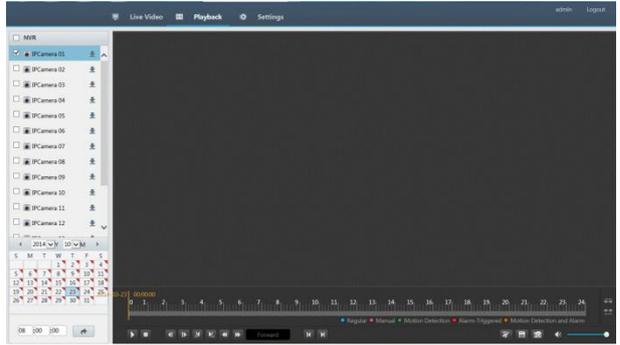
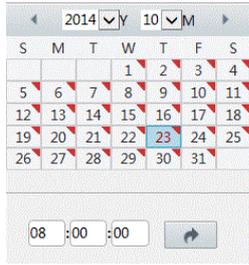
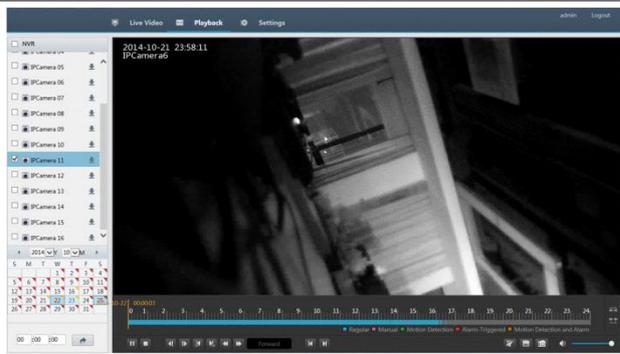


Table 4-1 Playback Control Buttons

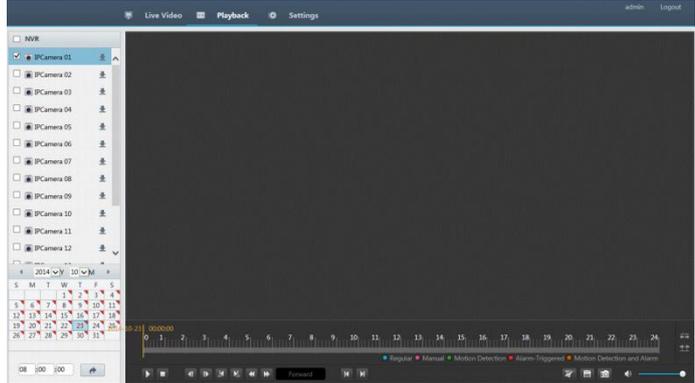
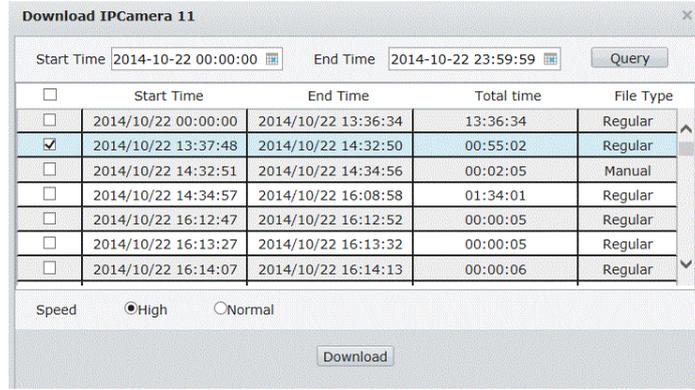
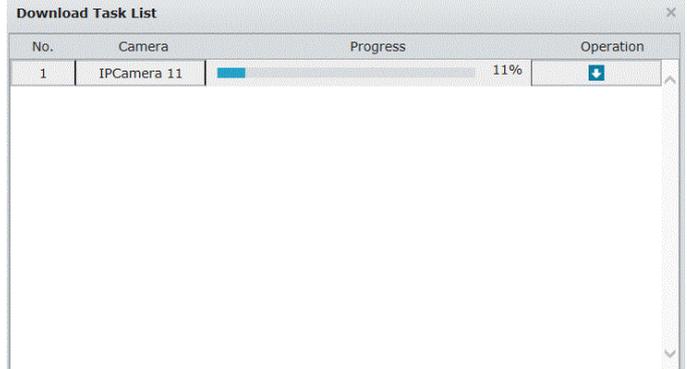
Button	Description	Button	Description
	Play/pause		Stop
	Rewind by frame		Forward by frame
	Rewind 30s		Forward 30s
	Speed down		Speed up
	Previous period		Next period
	Clip video/pause		Save
	Adjust volume, turn on/off sound	-	-

Recording Playback

Step	Screenshot
<p>1) On the Playback page, select the desired camera on the left.</p>	
<p>2) Query recordings using the following methods.</p> <ul style="list-style-type: none"> 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. <p>Note: <i>Each date has a flag in the upper right corner to indicate recording status for that day. Different colors have different meanings.</i></p> <ul style="list-style-type: none"> <i>Green: The camera has a 24-hour recording for that day.</i> <i>Yellow: The camera has incomplete recording for that day (recording exists but less than 24 hours).</i> <i>Red: The camera has no recording for that day.</i> 	
<p>3) Click Play to start playback.</p>	

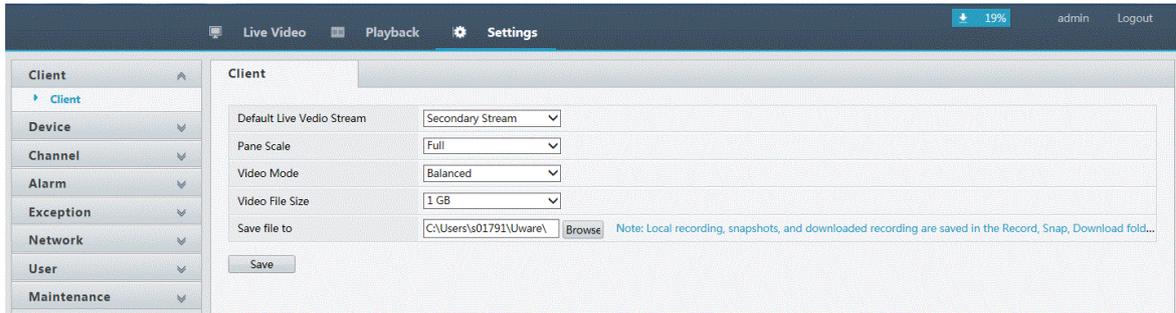
Recording Download

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

Step	Screenshot																																																
<p>1) On the Playback page, select the desired camera on the left and then click  on the right of the camera.</p>																																																	
<p>2) Download recordings.</p> <ol style="list-style-type: none"> Enter the start time and end time, and then click Query. Recordings during the set period are listed. 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. <p>Note: By default a downloaded recording is saved to the following directory: <i>C:\Users\username\Uware\Download\ system date (in yyyy-mm-dd format).</i></p>	 <table border="1" data-bbox="746 847 1417 1045"> <thead> <tr> <th></th> <th>Start Time</th> <th>End Time</th> <th>Total time</th> <th>File Type</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>2014/10/22 00:00:00</td> <td>2014/10/22 13:36:34</td> <td>13:36:34</td> <td>Regular</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>2014/10/22 13:37:48</td> <td>2014/10/22 14:32:50</td> <td>00:55:02</td> <td>Regular</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2014/10/22 14:32:51</td> <td>2014/10/22 14:34:56</td> <td>00:02:05</td> <td>Manual</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2014/10/22 14:34:57</td> <td>2014/10/22 16:08:58</td> <td>01:34:01</td> <td>Regular</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2014/10/22 16:12:47</td> <td>2014/10/22 16:12:52</td> <td>00:00:05</td> <td>Regular</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2014/10/22 16:13:27</td> <td>2014/10/22 16:13:32</td> <td>00:00:05</td> <td>Regular</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2014/10/22 16:14:07</td> <td>2014/10/22 16:14:13</td> <td>00:00:06</td> <td>Regular</td> </tr> </tbody> </table> <p>Speed: <input checked="" type="radio"/> High <input type="radio"/> Normal</p> <p>Download</p> <p>+ 11%</p>  <table border="1" data-bbox="746 1246 1401 1304"> <thead> <tr> <th>No.</th> <th>Camera</th> <th>Progress</th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>IPCamera 11</td> <td>11%</td> <td></td> </tr> </tbody> </table>		Start Time	End Time	Total time	File Type	<input type="checkbox"/>	2014/10/22 00:00:00	2014/10/22 13:36:34	13:36:34	Regular	<input checked="" type="checkbox"/>	2014/10/22 13:37:48	2014/10/22 14:32:50	00:55:02	Regular	<input type="checkbox"/>	2014/10/22 14:32:51	2014/10/22 14:34:56	00:02:05	Manual	<input type="checkbox"/>	2014/10/22 14:34:57	2014/10/22 16:08:58	01:34:01	Regular	<input type="checkbox"/>	2014/10/22 16:12:47	2014/10/22 16:12:52	00:00:05	Regular	<input type="checkbox"/>	2014/10/22 16:13:27	2014/10/22 16:13:32	00:00:05	Regular	<input type="checkbox"/>	2014/10/22 16:14:07	2014/10/22 16:14:13	00:00:06	Regular	No.	Camera	Progress	Operation	1	IPCamera 11	11%	
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No.	Camera	Progress	Operation																																														
1	IPCamera 11	11%																																															

5 Configuration

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



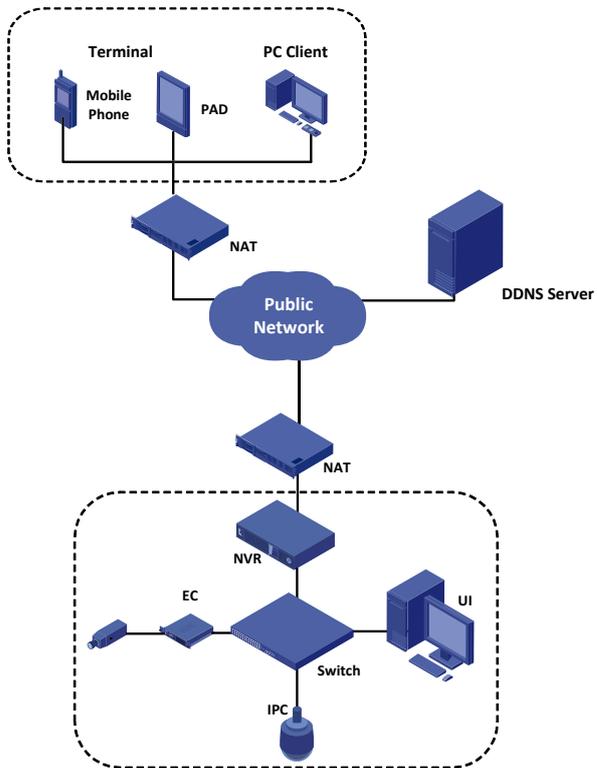
Part III DDNS

1 Overview

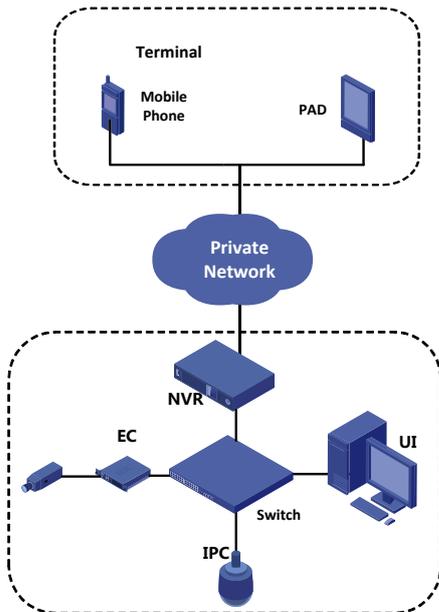
You can use the mobile app or the Web to view live or recorded video of your residence, shop or office anytime anywhere.

Networking

WAN



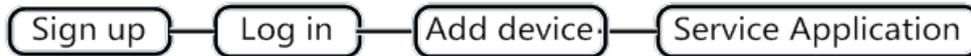
LAN



2 Access Through the App

Configuration

- WAN



- LAN



Sign Up

1. Start the app to go to the main screen.
2. Tap **Option > User** and sign up according to the instructions.
3. You log in to the system automatically after the sign-up completes

Log In

1. Start the app to go to the main screen.
2. Tap **Option > User**.
3. Enter the username and password that you have registered.
4. Tap **Log in** or tap the backspace key to go back to the main screen.

Add Device

Add Through WAN.

1. Go to the main screen of the app.
2. Tap **Devices**.
3. Tap  and select **Add by serial number**.
4. Change the device name.
5. Enter the serial number.
 - Scan the QR code.
 - a. Tap the QR code beside **Serial Number**.
 - b. Scan the QR code printed on the device or the user document and then follow the steps to add the device.
 - Enter serial number manually.

You can obtain the serial number by logging in to the device. For more information about the operation, please see the user document.
6. When the device is added successfully, it appears on the **Devices** screen.

Add Through LAN

1. Go to the main screen of the app.
2. Tap **Devices**.
3. Tap  and select **Add by IP address**.
4. Enter the device IP and tap **Save**.

5. When the device is added successfully, it appears on the **Devices** screen.

Service Application

Live View

1. Go to the main screen of the app and tap **Live View**.
2. Tap a panel to open the **Cameras**, select the device and tap **Live**. You can use other functions by tapping the buttons on the bottom of the screen.

Recordings

1. Go to the main screen of the app and tap **Recordings**.
2. Tap a panel to open the **Cameras**, select the device. You can set the start time and end time of the video, and then tap **OK**.

3 Access Through the Browser



NOTE!

The account you have registered in the app is also available in the website. You can log in directly by using the registered account.

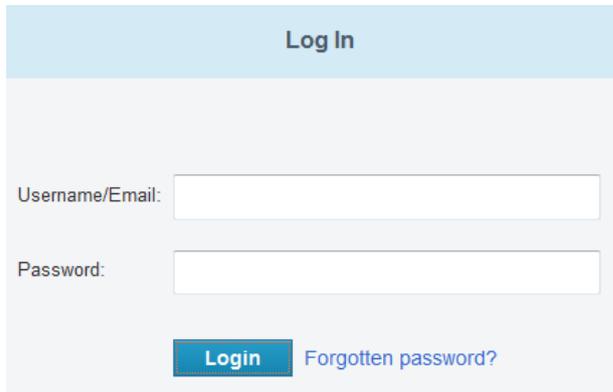
Sign Up

1. Go to <http://www.ez4view.com> and click **Sign up**.
2. Complete the sign-up according to the instructions.

The image shows a screenshot of the 'New User Sign Up' form. The form has a light blue header with the text 'New User Sign Up'. Below the header, there are five input fields: 'Username:', 'Password:', 'Confirm:', 'Email:', and 'Verification Code:'. The 'Email:' field has a small 'Acquire' button next to it. Below the input fields, there is a checkbox with the text 'I agree Service Agreement'. At the bottom of the form, there are two buttons: 'Sign up' (in blue) and 'Reset' (in grey).

Log In

1. Go to <http://www.ez4view.com> and click **Login**.



2. Enter the username and password to open the **My Device** page.

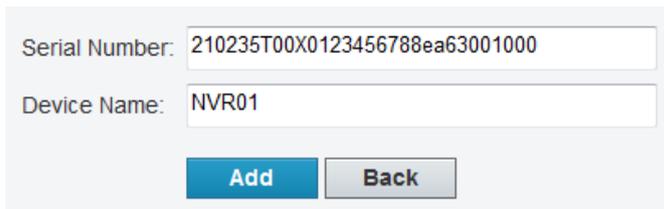
Add Device

1. On the **My Device** page, click  to open the **Add Device** page.
2. Enter the serial number of the device.



NOTE!

You can get the serial number of your device by logging in to the device. For more information about the operation, please see the user document.



3. Click **Add**. When you add the device successfully, the added device displays on the **My Device** page.



NOTE!

Select the device that you want to delete in the device list and click  to delete it.

Service Application

Click **Access** to open the web page and use functions as needed, such as live video and playback.