NVMS-7000 Client Software

User Manual (V2.0.0)

Contents

Chapter 1 Overview	3
1.1 Description	3
1.2 Running Environment	3
1.3 Function Modules	3
1.4 Updates Instruction	6
Chapter 2 Live View	7
2.1 User Registration and Login	7
2.2 Adding the Encoding Device	8
2.2.1 Adding Online Devices	8
2.2.2 Adding Devices Manually	10
2.2.3 Adding Devices by IP Segment	10
2.2.4 Adding Devices by IP Server	11
2.2.5Adding Devices by HiDDNS	12
2.3 Group Management	13
2.4 Basic Operations in Live View	15
2.4.1 Starting and Stopping the Live View	17
2.4.2 Auto-switch in Live View	19
2.4.3 PTZ Control in Live View	20
2.4.4 Manual Recording and Capture	22
2.4.5 Instant Playback	25
2.4.6 Other Functions in Live View	27
Chapter 3 Remote Record Schedule Settings and Playback	
3.1 Remote Recording	
3.1.1 Recording on Storage Devices on the DVRs, NVRs, or Network Cameras	28
3.1.2 Recording on Storage Server	31
3.2 Remote Playback	33
3.2.1 Normal Playback	33
3.2.2 Event Playback	35
3.2.3 Synchronous Playback	
Chapter 4 Event Management	
4.1 Configuring Motion Detection Alarm	
4.2 Configuring Tampering Alarm	41
4.3 Configuring PIR Alarm	42
4.4 Configuring Video Loss Alarm	43
4.5 Configuring Alarm Input Linkage	44
4.6 Configuring Device Exception Linkage	45
4.7 Viewing Alarm and Event Information	46
Chapter 5 E-map Management	47
5.1 Adding an E-map	47
5.2 The Hot Spot Function	49
5.2.1 Adding Hot Spots	49
5.2.2 Modifying Hot Spots	50
5.2.3 Previewing Hot Spots	51

5.3 The Hot Region Function	51
5.3.1 Adding Hot Regions	51
5.3.2 Modifying Hot Regions	52
5.3.3 Previewing Hot Regions	53
Chapter 6 Log Management	54
Chapter 7 Account Management and System Configuration	56
7.1 Account Management	56
7.2 System Configuration	57
7.2.1 General Settings	58
7.2.2 File Saving Path Settings	59
7.2.3 Keyboard and Joystick Shortcuts Settings	60
7.2.4 Alarm Sound Settings	60
7.2.5 Email Settings	61
Chapter 8 Forwarding Video Stream through Stream Media Server	62
8.1 Adding the Stream Media Server	62
8.2 Adding Cameras to Stream Media Server to Forward Video Stream	63
Chapter 9 Decoding and Displaying Video on Video Wall	64
9.1 Adding the Decoding Device	64
9.2 Configuring Video Wall Settings	65
9.3 Displaying Video on Video Wall	66
Troubleshooting	67

Chapter 1 Overview

1.1 Description

NVMS7000 is versatile video management software for the DVRs, NVRs, IP cameras, encoders decoders, etc. It provides multiple functionalities, including real-time live view, video recording, remote search and playback, file backup, etc., for the connected devices to meet the needs of monitoring task. With the flexible distributed structure and easy-to-use operations, the client software is widely applied to the surveillance projects of medium or small scale.

This user manual describes the function, configuration and operation steps of NVMS7000 software. To ensure the properness of usage and stability of the software, please refer to the contents below and read the manual carefully before installation and operation.

1.2 Running Environment

Operating System: Microsoft Windows 7/Windows 2008(32/64-bit operating system), Windows 2003/Windows XP (32-bit operating system)

CPU: Intel Pentium IV 3.0 GHz or above

Memory: 1G or above

Display: 1024*768 or above

Notes:

- For high stability and good performance, these above system requirements must be met.
- The software does not support 64-bit operating system; the above mentioned 64-bit operating system refers to the system which supports 32-bit applications as well.

1.3 Function Modules

Control Panel of NVMS7000:



Menu Bar:

	Open Captured picture	Search and view the captured pictures stored on local PC.
File	Open Video File	Search and view the video files recorded on local PC.
File	Open Log File	View the backup log files.
	Exit	Exit the NVMS7000client software.
	Lock	Lock screen operations. Log in the client again to unlock.
Sustana	Switch User	Switch the login user.
System	Import System Config File	Import client configuration file from your computer.
	Export System Config File	Export client configuration file to your computer.
	1024*768	Display the window at size of 1024*768 pixels.
	1280*1024	Display the window at size of 1280*1024 pixels.
	1440*900	Display the window at size of 1440*900 pixels.
	1680*1050	Display the window at size of 1680*1050 pixels.
View	Full Screen	Display the window in full screen.
view	Control Panel	Enter Control Panel interface.
	Main View	Open Main View page.
	Remote Playback	Open Remote Playback page.
	E-map	Open E-map page.
	Auxiliary Screen Preview	Open Auxiliary Screen Preview window.
	Device Management	Open the Device Management page.
	Event Management	Open the Event Management page.
	Record Schedule	Open the Record Schedule page.
Tool	Account Management	Open the Account Management page.
	Log Search	Open the Log Search page.
	System Configuration	Open the System Configuration page.
	Broadcast	Select camera to start broadcasting.

	Device Arming Control	Set the arming status of devices.
	I/O Control	Turn on/off the alarm output.
	Player	Open the player to play the video files.
	Message Queue	Display the information of Email message to be sent.
	Open Wizard	Open the guide for the client configuration.
	Licer Monuel (F1)	Click to open the User Manual; you can also open the User
Help	User Manual (F1)	Manual by pressing F1 on your keyboard.
пер	About	View the basic information of the client software.
	Languaga	Select the language for the client software and reboot the
	Language	software to activate the settings.

The NVMS7000 client software is composed of the following function modules:



The Main View module provides live view of network cameras and video encoders, and supports some basic operations, such as picture capturing, recording, PTZ control, etc.



The Remote Playback module provides the search, playback, export of record files.



The E-map module provides the displaying and management of E-maps, alarm inputs, hot regions and hot spots.



regions and hot spots. The Device Management module provides the adding, modifying and deleting of different devices and the devices can be imported into groups for management.



The Event Management module provides the settings of arming schedule, alarm linkage actions and other parameters for different events.



The Record Schedule module provides the schedule settings for recording.



The Account Management module provides the adding, modifying and deleting of user accounts and different permissions can be assigned for different users.



The Log Search module provides the query of system log files and the log files can be filtered by different types.



The System Configuration module provides the configuration of general parameters, file saving paths, alarm sounds and other system settings.

The function modules are easily accessed by clicking the navigation buttons on the control panel or by selecting the function module from the **View** or **Tool** menu.

You can check the information, including current user, network usage, CPU usage, memory usage and time, in the upper-right corner of the main page.

1.4 Updates Instruction

Multiple newly-designed functions are offered in the latest NVMS7000 client software. You can get a brief view of the updates instruction from the following contents.

• Embedded Web Server

With the embedded web server, NVMS7000 client can be accessed via the web browser. And it provides the functionalities of live view, playback, device management, account management, system configuration, etc.

User-friendly Wizard for Operation Guide

NVMS7000 client offers a user-friendly wizard and it introduces some basic operations of the software, such as adding device, importing device to group, configuring record schedule, etc.

• Different View Modes

Different view modes are supported in the live view or playback process. You can play the video in default view mode or in custom view mode. The custom view can be customized as desired.

• Camera Linkage for Tampering Alarm/Video Loss Alarm

Enable the alarm triggered pop-up image function. When tampering alarm or video loss alarm occurs, the image from the linked camera will pop up for notification.

Offline Device Adding

The offline device can also be added to the client with the required information input. When the device comes online, the software will connect it automatically.

Alarm Input Hot Spot

Not only the cameras, but also the alarm inputs can be added to the E-map as hot spots. The alarm input hot spots can detect the conditions of the surveillance scenario and give the alarm information.

Chapter 2 Live View

2.1 User Registration and Login

For the first time to useNVMS7000 client software, you need to register a super user for login. *Steps:*

- 1. Input the super user name and password.
- 2. Confirm the password.
- 3. Optionally, check the checkbox Enable Auto-log into log in the software automatically.
- 4. Click **Register**. Then, you can log in the software as the super user.

R	Register administator	×
Please create a sup	er user before proceeding.	
Super User:		
Password:		
Confirm Password:		
	Enable auto-login	
	Register Cancel	

Notes:

- A user name cannot contain any of the following characters: //: *? "<> |
- The password cannot be empty and the length of the password should be no less than six characters.

When opening NVMS7000 after registration, you can log in the client software with the registered user name and password.

Steps:

- 1. Input the user name and password you registered.
- 2. Optionally, check the checkbox Enable Auto-login to log in the software automatically.
- 3. Click Login.

Name:	admin	~
Password:		
	📃 Enable auto-login	
	Login	Cancel

After running the client software, a wizard will pop up to guide you to add the device and do some basic settings.

2.2 Adding the Encoding Device

Purpose:

After running the NVMS7000, devices including network cameras, video encoders, DVRs, NVRs, should be added to the client for the remote configuration and management, such as live view, playback, alarm settings, etc.

Perform the following steps to enter the Encoding Device Adding interface:

1. Click the icon on the control panel,

or click Tools->Device Management to open the Device Management page.

- 2. Click the **Server** tab.
- 3. Click Encoding Device to enter Encoding Device Adding interface.

O Device Management		(Group Management		Rec	cord Schedule	
Organization	Device for Manageme	ent (0)					
Encoding Device	😔 Add Device	Modify	Delete	Remote Confi	Refresh All	Filter	
	Nickname 🔺 IP		Device Serial No.		Resour	ce Usa HDD Status	R
	Online Device (0)		Refresh	Every 15s	0		
		Add All	Refresh Modily Netinfo	Every 15s Restore Default Pa	assword	Filter	

You can add the device in the following ways:

- By detecting the online devices, see Section 2.2.1Adding Online Devices.
- By specifying the device IP address, see Section 2.2.2 Adding Devices Manually.
- By specifying an IP segment, see Section 2.2.3Adding Devices by IP Segment.
- By IP Server, see Section 2.2.4Adding Devices by IP Server.
- By HiDDNS, see Section 2.2.5 Adding Devices by HiDDNS.

2.2.1 Adding Online Devices

Purpose:

The active online devices in the same local subnet with the client software will be displayed on a list. You can click the **Refresh Every 15s** button to refresh the information of the online devices.

Steps:

- 1. Select the devices to be added from the list.
- 2. Click Add to Client to open the device adding dialog box.
- 3. Input the required information.

Nickname: Edit a name for the device as you want.

Address: Input the device's IP address. The IP address of the device is obtained automatically in this adding mode.

Port: Input the device port number. The default value is *8000*.

User Name: Input the device user name. By default, the user name is *admin*.

Password: Input the device password. By default, the password is *12345*.

- 4. Optionally, you can check the checkbox **Export to Group** to create a group by the device name. All the channels of the device will be imported to the corresponding group by default.
- 5. Click **Add** to add the device.

	Ac	ld	,	×
Adding Mode: IP/Domain	IP Segment	IP Server	O HIDDNS	
 Add Offline Device Nickname: Address: Port: Name: Password: Export to group Set the device name as connected to the device 		and add all the chan	nels	
		Ad	d Cancel	

Click **Add All**, input the user name and password, and you can add all the online devices to the client software.

	Ad	d	×
Adding Mode: IP/Domain	IP Segment	O IP Server	O HIDDNS
User Name : Password:			
		Ad	ld Cancel

Select the device from the list, click **Modify Net info**, and then you can modify the network information of the selected device.

Select the device from the list, click **Restore Default Password**, and then you can restore the default password of the selected device.

2.2.2 Adding Devices Manually

Steps:

- 1. Click Add Device to open the device adding dialog box.
- 2. Select **IP/Domain** as the adding mode.
- 3. Input the required information.

Nickname: Edit a name for the device as you want.

Address: Input the device's IP address or domain name.

Port: Input the device port number. The default value is 8000.

User Name: Input the device user name. By default, the user name is admin.

Password: Input the device password. By default, the password is 12345.

- 4. Optionally, you can check the checkbox **Export to Group** to create a group by the device name. All the channels of the device will be imported to the corresponding group by default.
- 5. Click **Add** to add the device.

	Ad	id	×
Adding Mode: IP/Domain II	° Segment	O IP Server	O HIDDNS
 Add Offline Device Nickname: Address: Port: Name: Password: Image: Image: Export to group Set the device name as the connected to the device to 		and add all the char	inels
		Ad	dd Cancel

2.2.3 Adding Devices by IP Segment

Steps:

- 1. Click Add Device to open the device adding dialog box.
- 2. Select IP Segment as the adding mode.
- 3. Input the required information.
 - Start IP: Input a start IP address.

End IP: Input an end IP address in the same network segment with the start IP.

Port: Input the device port number. The default value is *8000*.

User Name: Input the device user name. By default, the user name is admin.

Password: Input the device password. By default, the password is 12345.

- 4. Optionally, you can check the checkbox **Export to Group** to create a group by the device IP. All the channels of the device will be imported to the corresponding group by default.
- 5. Click Add, and the device of which the IP address is between the start IP and end IP will be added

to the de	vice list.
-----------	------------

Add				
Adding Mode: O IP/Domain IP Segment	IP Server	O HIDDNS		
 Add Offline Device Start IP: End IP: Port: 8000 Name: Password: ✓ Export to group Create group with device IP. 				
	A	dd Cancel		

2.2.4 Adding Devices by IP Server

Steps:

- 1. Click Add Device to open the device adding dialog box.
- 2. Select IP Server as the adding mode.
- 3. Input the required information.

Nickname: Edit a name for the device as you want.

Server Address: Input the IP Server address.

Device ID: Input the device ID registered on the IP server.

User Name: Input the device user name. By default, the user name is admin.

Password: Input the device password. By default, the password is *12345*.

- 4. Optionally, you can check the checkbox **Export to Group** to create a group by the device name. All the channels of the device will be imported to the corresponding group by default.
- 5. Click **Add** to add the device.

Add	×
Adding Mode: O IP/Domain O IP Segment IP Server O HiDDNS	
Add Offline Device Nickname: Server Address: Device ID: Name: Password: ✓ Export to group Set the device name as the group name and add all the channels connected to the device to the group.	
Add Cance	1

2.2.5Adding Devices by HiDDNS

Steps:

- 1. Click **Add Device** to open the device adding dialog box.
- 2. Select HiDDNS as the adding mode.
- 3. Input the required information.

Nickname: Edit a name for the device as you want.

Server Address: <u>www.hiddns.com</u>.

Device Domain Name: Input the device domain name registered on HiDDNS server.

User Name: Input the device user name. By default, the user name is admin.

Password: Input the device password. By default, the password is 12345.

- 4. Optionally, you can check the checkbox **Export to Group** to create a group by the device name. All the channels of the device will be imported to the corresponding group by default.
- 5. Click **Add** to add the device.

	Ad	d		
Adding Mode: IP/Domain IP S	Segment	IP Serve	r 🖲	HIDDNS
 Add Offline Device Nickname: Server Address: Device Domain Name: Name: Password: Export to group Set the device name as the g connected to the device to the 			channels]]]
			Add	Cancel

Note: NVMS7000 also provides a method to add the offline devices. Check the checkbox **Add Offline Device**, input the required information and the device channel count, and then click **Add**. When the offline device comes online, the software will connect it automatically.

The devices will be displayed on the device list for management after added successfully. You can check the resource usage, HDD status, recording status, and other information of the added devices on the list.

Click **Refresh All** to refresh the information of all added devices. You can also input the device name in the filter field for search.

Select device from the list, click **Modify/Delete**, and then you can modify/delete the information of the selected device.

Select device from the list, click **Remote Config**, and then you can do some remote configurations of the selected device if needed.

2.3 Group Management

Purpose:

The devices added can be organized into groups for a convenient management. You can get the live view, play back the record files, and do some other operations of the device through the group.

Before you start:

Devices need to be added to the client software for group management.

Perform the following steps to enter the Group Management interface:

- 1. Open the Device Management page.
- 2. Click the **Group** tab to enter the Group Management interface.

😞 Add group 🦳 🈋 Delete Gr	oup Resources of Group IPC1			
arch	P Import Modify Delete	Remote Confi	Filter	
IPC1	Nickname	≜ ∣IP	Device Serial No.	
SIPC2	IPC_Camera1			
IPC3	NVR001_Camera1			
IPC_Camera1	NVR001_Camera2			
NVR001	NVR001_Camera3			
NVR002	NVR001_Camera4			
	NVR002_Camera1			
	NVR002_Camera2			
	NVR002_Camera3			
	NVR002_Camera4			
	NVR002_Camera5			
	NVR002_Camera6			
	NVR002_Camera7			
	NVR002_Camera8			
	IPC001_A1			
	NVR001_A1			
	NVR001_A2			
	NVR001_A3			

Adding the Group

Steps:

- 1. Click **Add Group** to open the Add Group dialog box.
- 2. Input a group name as you want.
- 3. Click **OK** to add the new group to the group list.

You can also check the checkbox **Create Group by Device Name** to create the new group by the name of the selected device.

, Add <u>c</u>	jroup	
Group Name:	lame	
	ОК	Cancel

Importing Encoding Device to Group

Steps:

1. Click Import on Group Management interface, and then click the Encoding Channel tab to open

the Import Encoding Channel page.

- 2. Select the thumbnails/names of the encoding channels in the thumbnail/list view.
- 3. Select a group from the group list.
- 4. Click Import to import the selected encoding channels to the group.

You can also click Import All to import all the encoding channels to a selected group.

Notes:

- You can also click the icon 🔂 on the Import Encoding Channel page to add a new group.
- Up to 64 cameras can be added to one group.

20 A	Group	
	Search	3
× ×	IPC1-Encoding Channel	
	IPC2-Encoding Channel	
	IPC3-Encoding Channel	
- Bood		
Import		
import All		
00		
	a R Import All	Search Search PG1Encoding Channel PG2Encoding Channel PG3Encoding Channel ImportAll

The following buttons are available on the Import Encoding Channel page:

3==	List View	View the encoding channel in list view.
- 5V 	Thumbnail View	View the encoding channel in thumbnail view.
S	Refresh	Refresh the latest information of added encoding channels.
-	Import	Create a group by device name and import the device to group.
* *	Collapse/Expand	Collapse/Expand the thumbnails of encoding channels.

Modifying the Group/Channel

Steps:

- 1. Select the group/channel from the group list on the Import Encoding Channel page.
- 2. Click *O*, or double-click the group/channel name to open Modify Group/Camera dialog box.
- 3. Edit the group/channel information, including the group/camera name, the camera type, etc.
- Click OK to save the new settings.
 You can also double-click the group/channel name on the Group Management interface to open the Modify Group/Camera dialog box.

	Modif	y Camera ×
	Name: Camera Type: Protocol Type:	IPC_Camera1 Main Stream v TCP v
Modify Group × Group Name: IPC1	Copy to.	
OK Cancel		OK Cancel

Removing Channels from the Group

Steps:

- 1. Select the channel from the group list on the Import Encoding Channel page.
- 2. Click $\stackrel{\text{\tiny ID}}{=}$ to remove the channel from the group.

You can also select the channel on the Group Management interface, and then click **Delete** to remove the channel from the group.

Select the group from the group list on the Import Encoding Channel page, and Click \bowtie . You can remove all the channels from the group.

Deleting the Group

Steps:

- 1. Select the group on the Group Management interface
- 2. Click **Delete Group** or click the icon and the selected group will be deleted.

2.4 Basic Operations in Live View

Purpose:

For the surveillance task, you can view the live video of the added network cameras and video encoders on the Main View page. And some basic operations are supported, including picture capturing, manual recording, PTZ control, etc.

Before you start:

A camera group is required to be defined for live view.

Click the 🔛 icon on the control panel,

or click View->Main View to open the Main View page.



Main View Page

- 1 View List
- 2 Camera List
- 3 PTZ Control Panel
- 4 Display Window of Live View
- 5 Live View Toolbar

Camera Status:

- The camera is online and works properly.
- The camera is in live view.
- The camera is in recording status.
- The camera is offline.

Live View Toolbar:



On the Main View page, the following toolbar buttons are available:

•	Set View	Set the screen layout mode and save the new settings for the
		current view; save the current view as another new view.
	Stop Live View	Stop the live view of all cameras.
+	Previous	Go for live view of the previous page.
-	Next	Go for live view of the next page.
୍ କ	Resume/Pause	Click to resume/pause the auto-switch in live view.
S. 11	Auto-switch	Click to resume/pause the auto-switch in live view.
•	Show /Hide the Menu	Show/Hide the config menu of auto-switch. Click again to hide.
۲	Mute/Audio On	Turn off/on the audio in live view
×	Full Screen	Display the live view in full screen mode. Press ESC to exit.
)m(Full Screen	Display the live view in full screen mode. Press ESC to exit.

Right-click on the display window in live view to open the Live View Management Menu:

User Manual of NVMS-7000 v2.0



The following buttons are available on the right-click Live View Management Menu:

	Stop Live View	Stop the live view in the display window.		
	Capture	Capture the picture in the live view process.		
	Print Captured Picture	Capture the current picture and then print the picture.		
152	Send Email	Capture the current picture and then send an Email notification to		
-	Sella Elliali	one or more receivers. The captured picture can be attached.		
OG	Start/Stop Recording	Start/Stop the manual recording. The record file is stored in the PC.		
0	Open Window PTZ	Enable PTZ control function on the display window. Click again to		
<u>aln</u>	Control	disable the function.		
⊕	Open Digital Zoom	Enable the digital zoom function. Click again to disable the function.		
B	Switch to Instant	Switch to instant playback mode		
0	Playback	Switch to instant playback mode.		
<u>a</u> . <u>a</u> .	Start/Stop Two-way	Click to start/stop the two-way audio of the camera in live view.		
S	Audio			
	Enable/Disable Audio	Click to enable/disable the audio in live view.		
	Camera Status	Display the status of the camera in live view, including the recording		
	Callera Status	status, signal status, connection number, etc.		
600	Remote Configuration	Open the remote configuration page of the camera in live view.		
Œ	Synchronization	Sync the camera in live view with the PC running the client software.		
22	Full Screen	Display the live view in full screen mode. Click the icon again to exit.		

2.4.1 Starting and Stopping the Live View

Starting Live View for One Camera

Steps:

- 1. Open the Main View page.
- 2. Optionally, click the icon in live view toolbar, then click the screen layout button and select the screen layout mode for live view.
- 3. Click-and-drag the camera to the display window,

or double-click the camera name after selecting the display window to start the live view.

Note: You can click-and-drag the video of the camera in live view to another display window if needed.

Starting Live View for Camera Group

Steps:

- 1. Open the Main View page.
- 2. Click-and-drag the group to the display window,

or double-click the group name to start the live view.

Note: The display window number is self-adaptive to the camera number of the group.

Starting Live View in Default View Mode

Purpose:

The video of the added cameras can be displayed in different view modes. 4 frequently-used default view modes are selectable: 1-Screen, 4-Screen, 9-Screen and 16-Screen.

Steps:

- 1. Open the Main View page.
- 2. Click the icon to expand the default view list.
- 3. Click to select the default view mode and the video of the added cameras will be displayed in a sequence in the selected view.

Note: Right-click the current default view name on the list and click **Save View As.**, and you can save the default view as a custom view.

Starting Live View in Custom View Mode

Purpose:

The view mode can also be customized for the video live view.

Steps:

- 1. Open the Main View page.
- 2. Click the icon 📧 to expand the custom view list.
- 3. Click **New View** in the custom view list to create a new view.
- 4. Input the view name and click Add. The new view is of 4-Screen mode by default.
- 5. Optionally, Click the 💷' icon in live view toolbar, then click the screen layout button 🕮 and select the screen layout mode for the new view.
- Click-and-drag the camera/group to the display window, or double-click the camera/group name in custom view mode to start the live view.
- 7. Click the icon \blacksquare to save the new view.

Right-click the custom view name on the list, and a menu pops up as follows:



The following buttons are available on the right-click menu:

a.	Edit View Name	Edit the name of the custom view.
m	Delete View	Delete the custom view.
	Save View	Save the new settings of the custom view.
-	Save View As.	Save the current view as another custom view.

Stopping the Live View

Steps:

- 1. Select the display window.
- 2. Click the icon ket appears in the upper-right corner when the mouse pointer is over the display window,

or click Stop Live View on the right-click menu to stop the live view of the display window.

You can also click the button 📕 in live view toolbar to stop all the live view.

2.4.2 Auto-switch in Live View

Camera Auto-switch

Purpose:

The video stream of the cameras from the same group will switch automatically in a selected display window in camera auto-switch.

Steps:

- 1. Open the Main View page.
- 2. Select a display window for camera auto-switch.
- 3. Click the icon in the toolbar and select the switching interval.
- 4. Select a group and click the icon \checkmark on the group node.
- 5. You can click the icon \mathbb{G}/\mathbb{Q} to pause/resume the camera auto-switch.

Single View Auto-switch

Purpose:

The video of all the cameras on the camera list will switch automatically in a selected default view in single view auto-switch.

Steps:

- 1. Open the Main View page.
- 2. Click the icon in the toolbar and select the switching interval.
- 3. Select a default view and click the icon 🦻 on the selected view node.
- 4. You can click the icon (M/2) to pause/resume the single view auto-switch.

Multi-view Auto-switch

Purpose:

The custom views will switch automatically in multi-view auto-switch. The custom views need to be added before proceeding.

Steps:

1. Open the Main View page.

- 2. Click the icon in the toolbar and select the switching interval.
- 3. Click the icon \checkmark on the custom view node.
- 4. You can click the icon M/2 to pause/resume the multi-view auto-switch.

2.4.3 PTZ Control in Live View

The software provides PTZ control for cameras with pan/tilt/zoom functionality. You can set the preset, patrol and pattern for the cameras on the PTZ Control panel. And you can also open window PTZ control for the operations of PTZ cameras.

Click the icon 📩 to expand the PTZ Control panel.

PTZ Control						
۲		4	+	o.	-	
•	Ü	•	+		-	
*	•	4	+	٥	-	
-				_	+	
	X 🛛 🔹 🚸 🖬					
Pre	eset	Patte	ern	Patro	ol	
	► 🖉 🚊					
01	01 Preset1 🔶					
02 Preset2						
03	03 Preset3					
04 Preset4						

The following buttons are available on the PTZ Control panel:

- Q Zoom
- Kale Focus
- 🜔 Iris
- Auxiliary Focus
- 3D Positioning
- Light
- Wiper 🕪
- Lens Initialization

Configuring the Preset

A preset is a predefined image position which contains information of pan, tilt, focus and other parameters.

Perform the following steps to add a preset:

- 1. Click the **Preset** button to enter the PTZ preset configuration panel.
- 2. Click the direction buttons on the PTZ control panel to steer the camera to the desired view.
- 3. Select a PTZ preset number from the preset list and click \mathbb{Z} .
- 4. Input the name of the preset in the pop-up dialog box.
- 5. Click **OK** to save the settings.

To call a configured preset, double-click the preset, or select the preset and click the icon To modify a configured preset, select the preset from the list and click the icon
To delete a configured preset, select the preset from the list and click the icon



Configuring the Pattern

A pattern is a memorized, repeating series of pan, tilt, zoom, and preset functions.

Perform the following steps to add a pattern:

- 1. Click the **Pattern** button to enter the PTZ pattern configuration panel.
- 2. Click 🧕 to start recording of this pattern path.
- 3. Use the direction buttons to control the PTZ movement.
- 4. Click 🙆 to stop and save the pattern recording.
- 5. Click the icon 💌 to call the pattern. To stop calling the pattern, click 💻.

Note: Only one pattern can be configured, and the newly-defined pattern will overwrite the previous one.

Camera ^								
PTZ	PTZ Control 🗸							
*		4	+	О.	-			
•	υ	+	+	-	-			
*		4	+	0	-			
-	_			_	+			
2	: 0	<u>م</u>	• •	•	1			
Pres	set	Patte	ern	Patro	ol			
				> = 0	6			

Configuring the Patrol

A patrol is a scanning track specified by a group of user-defined presets, with the scanning speed between two presets and the dwell time at the preset separately programmable.

Before you start:

Two or more presets for one PTZ camera need to be added.

Perform the following steps to add and call a patrol:

- 1. Click the Patrol button to enter the PTZ patrol configuration panel.
- 2. Select a track number from the drop-down list.
- 3. Click 🍄 to add a preset, and set the dwell time and patrol speed for the preset.
- 4. Repeat the above operation to add other presets to the patrol.
- 5. Optionally, you can click \mathbb{Z} or $\mathbf{1}$ to edit or delete a preset in the patrol path.
- 6. Click the icon 😕 to call the patrol. To stop calling the patrol, click 🗐 .

Notes:

- Up to 16 patrols can be configured.
- The preset dwell time can be set to 1~255 sec, and the patrol speed can be set to level 1~40.



2.4.4 Manual Recording and Capture

Toolbar in Each Live View Display Window:

600	0	0
		U

In each live view display window, the following toolbar buttons are available:

	Capture	Capture the picture in the live view process.		
00	Start/Stop Recording	Start/Stop manual recording. The record file is stored in the PC.		
1	Switch to Instant	Switch to the instant playback mode.		
U	Playback			

Manual Recording in Live View

Purpose:

Manual Recording function allows you to record the live video on the Main View page manually and the record files are stored in the local PC.

Steps:

- 1. Move the mouse pointer to the display window in live view to show the toolbar.
- 2. Click in the toolbar of the display window or on the right-click Live View Management Menu to start the manual recording. The icon turns to
- Click the icon to stop the manual recording.
 A prompt box with the saving path of the video files you just recorded will pop up if all the operations succeed.

Notes:

- During the manual recording, an indicator Pappears in the upper-right corner of the display window.
- The saving path of video files can be set on the System Configuration interface. For details, see *Section 7.2.2 File Saving Path Settings*.

Viewing Local Record Files

Steps:

- 1. Click File->Open Video File to open the Record Files page.
- 2. Select the camera to be searched from the Camera Group list.
- 3. Click the icon 🖾 to specify the start time and end time for the search.
- Click Search. The video files recorded between the start time and end time will be displayed.
 Select the video file, and click Delete. You can delete the video file.

Select the video file, and click **Email Linkage**. You can send an Email notification with the selected video file attached.

Select the video file, and click Save as. You can save a new copy of the video file.

Note: To send an Email notification, the Email settings need to be configured before proceeding. For details, see *Section 7.2.5 Email Settings*.



Double-click the video file and the video file can be played back locally.



The following buttons are available on the local playback page:

cif 4cif	CIF/4CIF	Display the video in cif/4cif resolution.
=	Full Screen	Display the local playback page in full screen mode.
×	Close	Close the local playback page of the record files.
- II - >	Pause/Play	Pause/Start the playback of the record files.
	Stop	Stop the playback of the record files.
1x	Speed	Set the playback speed.
•	Single Frame	Play back the record files frame by frame.
Q	Digital Zoom	Enable the digital zoom function. Click again to disable.
L0 ()	Enable/Disable Audio	Click to enable/disable the audio in the local playback.
- İ.M.	Capture	Capture the picture in the playback process.

Capturing Picture in Live View

Steps:

- 1. Move the mouse pointer to the display window in live view to show the toolbar.
- 2. Click the icon in the toolbar of the display window or on the right-click Live View Management Menu.

A small window of the captured picture will be displayed to notify whether the capturing operation is done or not.

Note: The saving path of the captured pictures can be set on the System Configuration interface. For details, see *Section 7.2.2 File Saving Path Settings*.

Viewing Captured Pictures

The pictures captured in live view are stored in the PC running the software. You can view the captured pictures if needed.

Steps:

- 1. Click File->Open Captured Picture to open the Captured Picture page.
- 2. Select the camera to be searched from the Camera Group list.

- 3. Click the icon 🔤 to specify the start time and end time for the search.
- 4. Click **Search**. The pictures captured between the start time and end time will be displayed.
- 5. Double-click the captured picture to enlarge it for a better view.

Select the captured picture, and click **Print**. You can print the selected picture.

Select the captured picture, and click **Delete**. You can delete the selected picture.

Select the captured picture, and click **Email Linkage**. You can send an Email notification with the selected picture attached.

Select the captured picture, and click **Save as**. You can save a new copy of the selected picture.



2.4.5 Instant Playback

Purpose:

The record files can be played back instantly on the Main View page. Instant playback shows a passage of the video which was remarkable, or which was unclear on the first sight. Thus, you can get an immediate review if needed.

Before you start:

The video files need to be recorded on the storage devices, such as the SD/SDHC cards and HDDs on the DVRs, NVRs, Network Cameras, etc., or on the storage servers.

Steps:

- 1. Start the live view and move the mouse pointer to the display window to show the toolbar.
- Click the icon in the toolbar and a list of time periods pops up.
 30s, 1 min, 3 min, 5 min, 8 min, and 10 min are selectable.
- 3. Select a time period to start the instant playback.

Example: If the current time of the live view is 09:30:00, and you select 3 min, then the instant playback will start from 09:27:00.

4. Click the icon 🖤 again to stop the instant playback and go back for the live view.

Notes:

- During the instant playback, an indicator appears in the upper-right corner of the display window.
- The live view process will continue after the instant playback completed.



Right-click on the display window to open the Instant Playback Management Menu:



The following buttons are available on the right-click Instant Playback Management Menu:

Pause/Play	Pause/Start the instant playback in the display window.
Stop	Stop the instant playback and return to the live view mode.
Speed Up/Down	Increase/Decrease the play speed of the instant playback.
Single Frame	Play back the record file frame by frame.
Open Digital Zoom	Enable the digital zoom function. Click again to disable the function.
Capture	Capture the picture in the instant playback process.
Print Captured Picture	Capture the current picture and then print the picture.
	Capture the current picture and then send an Email notification to
Senu Eman	one or more receivers. The captured picture can be attached.
Start/Stop Recording	Start/Stop clipping the record files.
Enable/Disable Audio	Click to turn on/off the audio in instant playback.
Switch to Live View	Switch to live view mode.
Full Screen	Display the instant playback in full screen mode. Click again to exit.
	Stop Speed Up/Down Single Frame Open Digital Zoom Capture Print Captured Picture Send Email Start/Stop Recording Enable/Disable Audio Switch to Live View

2.4.6 Other Functions in Live View

There are some other functions supported in the live view, including digital zoom, two-way audio, camera status and synchronization.

Auxiliary Screen Preview

The live video can be displayed on different auxiliary screens for the convenient preview of multiple monitoring scenes. Up to 3 auxiliary screens are supported.

Digital Zoom

Use the left key of mouse to drag a rectangle area in the lower-right/upper-left direction, and then the rectangle area will zoom in/out.

Two-way Audio

Two-way audio function enables the voice talk of the camera. You can get not only the live video but also the real-time audio from the camera. This two-way audio can be used for only one camera at one time.

Camera Status

The camera status, such as recording status, signal status, connection number, etc., can be detected and displayed for check. The status information refreshes every 10 seconds.

Synchronization

The synchronization function provides a way to synchronize the live video clock with the PC which runs the client software.

Chapter 3 Remote Record Schedule Settings and Playback

When the video storage devices are the HDDs, Net HDDs, SD/SDHC cards on the local device, or the remote storage server connected, you can set the record schedule for the cameras for the continuous, alarm triggered or command triggered recording. And the record files can be searched for the remote playback.

3.1 Remote Recording

Purpose:

The video files can be recorded on the HDDs, Net HDDs, SD/SDHC cards on the local device, or the storage server connected.

Click the 👫 icon on the control panel,

or click Tool->Record Schedule to open the Record Schedule page.



3.1.1 Recording on Storage Devices on the DVRs, NVRs, or

Network Cameras

Purpose:

Some local devices, including the DVRs, NVRs, and Network Cameras, provide storage devices such as the HDDs, Net HDDs and SD/SDHC cards for record files. You can set a record schedule or capture schedule for the channels of the local devices.

Note: The pictures captured through the capture schedule are stored on the local device and can be searched on the remote configuration page of the device.

Before you start:

The newly installed storage devices need to be formatted. Go to the remote configuration page of the device, click **Storage**->**General**, select the HDD or SD/SDHC card, and click **Format** to initialize the selected storage device.

Steps:

- 1. Open the Record Schedule page.
- 2. Select the camera in the Camera Group list.
- 3. Check the checkbox **Record Schedule** under Local Recording to enable device local recording.
- 4. Select the record schedule template from the drop-down list.

All-day Template: for all-day continuous recording.

Weekday Template: for working-hours continuous recording from 8:00 AM to 8:00 PM.

Alarm Template: for motion detection or alarm input triggered recording.

Template 01-08: fixed templates for specific schedules. You can edit the templates if needed. **Custom**: can be customized as desired.

If you need to edit or customize the template, see Configuring Record Schedule Template.

- 5. Click **Advanced Settings** to set the recording parameters. For details, see *Table 3.1 Advanced Recording Settings*.
- 6. Optionally, click **Copy to...** to copy the record schedule settings to other channels.
- 7. Click **Save** to save the settings.

	Advanced Settings		
Pre-record:	5s	~	
Post-record:	5s	~	
Video Expired Time:	0		day(s)
Redundant Record:	No	~	
Record Audio:	Yes	×	
	OK	Ci	ancel



Parameters	Descriptions
Pre-record	Normally used for the event triggered record, when you want to record before
Pre-record	the event happens
Post-record	After the event finished, the video can also be recorded for a certain time.
Video Expired Time	The time for keeping the record files in the storage device, once exceeded, the
Video Expired Time	files will be deleted. The files will be saved permanently if the value is set as 0.
Redundant Record	Save the video files not only in the R/W HDD but also in the redundant HDD.
Record Audio	Record the video files with audio or not.

Configuring Record Schedule Template

Perform the following steps to configure the record schedule template:

If Template 01-08 is selected from the drop-down list, start from step 1;

If **Custom** is selected from the drop-down list, start from step 2.

- 1. Click **Edit** to enter the Templates Management interface. Select the template to be set and you can edit the template name.
- 2. Set the time schedule for the selected template.

Schedule Recording refer to normal schedule record. The schedule time bar is green yellow.

Event Recording refers to the schedule record for the alarm input or motion detection event. The schedule time bar is red.

Command refers to the schedule record triggered by command. The schedule time bar is green.

Note: Record triggered by command is only available for the ATM transactions when the ATM DVR is added to NVMS7000.

When the cursor turns to you can edit the schedule time bar.

When the cursor turns to you gou can move the selected time bar you just edited.

When the cursor turns to **W**, you can lengthen or shorten the selected time bar.

3. Optionally, you can select the schedule time bar,

and then click the icon $\left| {f X} \right|$ to delete the selected time bar,

or click the icon 💼 to delete all the time bars,

or click the icon is to copy the time bar settings to the other dates.

4. Click **OK** to save the settings.

You can click **Save as Schedule Template** on the Custom Schedule interface, and then the custom template can be saved as template 01--08.

Note: Up to 8 time periods can be set for each day in the record schedule.

					Temp	plates M	anageme	nt							
 All-day Template 	2 Sched	ule Re	cording	🖉 Eve	nt Record	ding	🖉 Comr	nand	*						
🔘 Weekday Templ	Mon	0	2	4	6	8	10	12	. 14	16	18	20	22	24	
 Alarm Template 	MOIT														
Template 01	Tue	0	2	4	6	8	10	12	. 14	16	18	20	22	24	
Template 02	Wed	0	2	4	6	8	10	12	. 14	16	18	20	22	24	
Template 03	Thu	0	2	4	6	8	10	12	. 14	16	18	20	22	24	
Template 05	Fri	0	2	4	6	8	10	12	. 14	16	18	20	22	24	
Template 06		0	2	4	6	8	10	12	14	16	18	20	22	24	
Template 07	Sat														
Template 08	Sun	0	2	9	6	8	10	12	. 14	16	18	20	22	24	
	_	_	_	_	_		_	_	_	_	_		_	_	
													ОК	Cancel	

Contir	nuous (Capture	🖉 Eve	ent Captur	re ×	Ē					Sa	eve as Sc	hedule Templat
Mon	0	2	4	6	8	10	12	14	16	18	20	22	24
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24
Sat	0	2	4	6	8	10	12	14	16	18	20	22	24
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Sun		2	4		8	10		14	16	18	20		24

3.1.2 Recording on Storage Server

Purpose:

The storage server performs as a NVR installed on the PC. The record files can be stored in the storage server and you can search the files for remote playback.

Before you start:

The storage server application software needs to be installed and it is packed in the NVMS7000 software package. When installing the NVMS7000, check the checkbox **Storage Server** to enable the installation of storage server.

Adding the Storage Server

Steps:



1. Click the shortcut icon **W** on the desktop to run the storage server.

Note: You can also record the video files on the storage server installed on other PC.

- 2. Open the Device Management page and click the **Server** tab.
- 3. Click Add New Device Type, select Storage Server and click OK.
- 4. Click **Storage Server** on the list to enter the Storage Server Adding interface.

Organization	Device for Manag	gement (4)					
Encoding Device	🔶 Add Device	Modify	Delete	Remote Confi	Refresh All	Filter	
😔 Add New Device Type	Nickname 🔺	IP	Device Serial No.		Resour	ce Usa HDD Status	Recording
	IPC001	demo.laviews			8	0	0
	IPC002	demo.laviews			8	0	8
	NVR001	dem.laviewse			3	0	8
	NVR002	demo.laviews			۷	0	8
	•						,
	Online Device (0)	Refrest	Every 15s			
	+ Add to Clien	t 🕀 Add All	Modify Netinfo	Restore Default	Password	Filter	
	IP 🍝	Device Type	Port	Device Serial No.		Added	
Encoding device can be added:							

You can add the storage server in the following ways:

- By detecting the online devices, see Section 2.2.1 Adding Online Devices.
- By specifying the device IP address, see Section 2.2.2 Adding Devices Manually.
- By specifying an IP segment, see Section 2.2.3Adding Devices by IP Segment.
- By IP Server, see Section 2.2.4Adding Devices by IP Server.

Formatting the HDDs

The HDDs of the storage server need to be formatted for the record file storage.

Steps:

- 1. Select the added storage server from the list and click Remote Config.
- 2. Click **Storage**->**General**, to enter the HDD Formatting interface.
- 3. Select the HDD from the list and click **Format**. You can check the formatting process from the process bar and the status of the formatted HDD changes from *Raw* to *Normal Status*.

Note: Formatting the HDDs is to pre-allocate the disk space for storage and the original data of the formatted HDDs will not be deleted.

Configure	HDD param	eters.		
HDD No.	Capacity(MB)	Free Space(MB)	Status	Туре
1	3121	1411	Raw	Local
2	40479	40389	Raw	Local
3	334906	310167	Raw	Local
4	15999	7245	Raw	Local
5	1992294	637474	Raw	Local
4)	•
Progress:				Format

Configuring Storage Server Record Schedule

Before you start:

The storage server needs to be added to the client software and the HDDs need to be formatted for the record file storage.

Steps:

- 1. Open the Record Schedule page.
- 2. Select the camera from the Camera Group list.
- 3. Check the checkbox Storage Server to enable recording on storage server.
- 4. Select the storage server from the drop-down list.
- Select the record schedule template from the drop-down list.
 If you need to edit or customize the template, see *Configuring Record Schedule Template*.
- 6. Click Advanced Settings to set the pre-record time, post-record time and video expired time.
- 7. Click **Save** to save the settings.

3.2 Remote Playback

Purpose:

The record files stored on the local device or the storage server can be searched by custom view, camera or triggering event, and then can be played back remotely.

Click the

icon on the control panel,

or click View->Remote Playback to open the Remote Playback page.



Remote Playback Page

1 View List, Camera List and Event List

2 Calendar

3 Search Options

- 4Search Result List
- 5 Display Window of Playback
- 6 Playback Toolbar
- 7 Timeline

3.2.1 Normal Playback

Purpose:

The record files can be searched by custom view, camera or triggering event for the Normal Playback.

Searching Record Files for Normal Playback

Steps:

1. Open the Remote Playback page.

- 2. Click do expand the View List or Camera List on the left-side.
- 3. Select the view or camera to be searched from the list.
- 4. Select the day to be searched on the calendar.

You can also click $\stackrel{\texttt{e}}{=}$ to show more search options, and then click the icon $\stackrel{\texttt{III}}{=}$ to specify the start time and end time for the search.

5. Click **Search**. The record files of the selected view or camera will be displayed on the Search Result list. You can filter the results through the Filter text field.

Notes:

- You can also search the record files by the card number (only applicable to ATM DVR) or by the file type.
- If there are record files for that camera in that day, in the calendar, the icon for that day is displayed as ². Otherwise it is displayed as ².
- Up to 16 cameras can be searched simultaneously.



Normal Playback

After searching the record files for the normal playback, you can play back the record files in the following two ways:

Playback by File List

Select the record file from the search result list, and then click the icon in the toolbar, or double-click the record file to play the video on the display window of playback.

Playback by Timeline

The timeline indicates the time duration for the record file, and the record files of different types are color coded. Click on the timeline to play back the video of the specific time.

You can click contained or to scale up or scale down the timeline bar.

You can click $\boxed{}$ or $\boxed{}$ to go to the previous or the next time period.

You can use the mouse wheel to zoom in or zoom out on the timeline.



Normal Playback Toolbar:



On the Normal Playback page, the following toolbar buttons are available:

⇒= ⇒:	Async/Sync Playback	Click to play back the record files synchronously/asynchronously.
-	Stop Playback	Stop the playback of all cameras.
11 ->-	Pause/Start Playback	Pause/Start the playback of the record files.
•	Single Frame	Play back the record files frame by frame.
۱	Volume	Click to turn on/off the audio and adjust the audio volume.
×	Full Screen	Display the video playback in full screen mode. Press ESC to exit.

Note: You can move the slider on the Playback Speed Bar to set the playback speed.

3.2.2 Event Playback

Purpose:

The recordings triggered by motion detection or alarm input can be searched for Event Playback and this function requires the support of the connected device.

Searching Record Files for Event Playback

Steps:

- 1. Open the Remote Playback page.
- 2. Click do expand the Event List on the left-side.
- 3. Click Motion Detection or Alarm Input, and select the cameras or alarm input sensors.
- 4. Select the day to be searched on the calendar.
 - You can also click $\overline{\bullet}$ to show more search options, and then click the icon $\overline{\bullet}$ to specify the start time and end time for the search.
- 5. Click **Search**. The recordings from the selected cameras and sensors triggered by motion detection or alarm input will be displayed on the Search Result list.
Event Playback

After searching the recordings triggered by the event, you can play back the record files in the following two ways:

Playback by File List

Select the record file from the search result list, and then click the icon in the toolbar, or double-click the record file to play the video on the display window of playback.

• Playback by Timeline

The timeline indicates the time duration for the record file. Click on the timeline to play back the video of the specific time.

You can click contained or contained to scale up or scale down the timeline bar.

You can click $\boxed{}$ or $\boxed{}$ to go to the previous or the next time period.

You can use the mouse wheel to zoom in or zoom out on the timeline.

Event Playback Toolbar:

	🤹 🔛
--	-----

On the Remote Playback page, the following toolbar buttons are available:

-	Stop Playback	Stop the playback of all channels.
11 ->-	Pause/Start Playback	Pause/Start the playback of record files.
D•	Single Frame	Play back the record files frame by frame.
+	Previous Event	Go to the playback of the previous event.
-	Next Event	Go to the playback of the next event.
۲	Volume	Click to turn on/off the audio and adjust the audio volume.
)	Full Screen	Display the video playback in full screen mode. Press ESC to exit.

You can move the slider on the Playback Speed Bar to set the playback speed.

3.2.3 Synchronous Playback

Purpose:

In synchronous playback, the record files can be played back in synchronization.

Note: Record files from up to 16 cameras can be played back simultaneously.

Synchronous Playback for Some Searched Cameras

Steps:

- 1. Start the normal playback of the searched cameras.
- 2. Click in the toolbar, and then the record files in normal playback will be played in sync. The icon turns to .
- 3. To disable the synchronous playback, click the icon 🗮

Synchronous Playback for All Searched Cameras

Steps:

- 1. Search the record files for the normal playback.
- 2. Click 🚔 in the toolbar to enable the synchronous playback. The icon 🚔 turns to 🗮

- Select the record file from the list and click , or click on the timeline to start the synchronous playback for all searched cameras.
- 4. To disable the synchronous playback, click the icon $\stackrel{\Longrightarrow}{\Longrightarrow}$.



Chapter 4 Event Management

Purpose:

In NVMS7000 client software, rules can be set up for triggers and linkage actions. You can assign linkage actions to the trigger by setting up a rule. For example, when motion is detected, an audible warning appears or other linkage actions happen.

Click the Leilicon on the control panel,

or click Tool->Event Management to open the Event Management page.

amera Group	Select Event Type: Motion	Detection v IPC2_Camera1 Event	Configuration Opy to	H Save
arch. p i PC1-Encoding Channel i PC1_Camera01 i PC2_Encoding Channel i PC2_Camera1 i PC2_Camera1 i PC2_Camera1 i PC2_Camera1 i PC2_Camera1 i PC2_Camera1 i DC4_Encoding Channel i DVR4_Encoding Channel	Arming Schedule:	All-day Template Edit Sensitivi		
		4		
	Trigger Alarm Output	No. of Concession, Name of	✓ Trigger Client Action	
	Trigger Alarm Output	•	✓ Trigger Client Action ✓ Audbie Warning	
	Trigger Alarm Output	Trigger Channel Record		
	Trigger Alarm Output	Trigger Channel Record	Audible Warning	
	Trigger Alarm Output	Trigger Channel Record	 Audible Warning Email Linkage 	

You can set different linkage actions for the following triggers:

- Motion Detection
- Tampering Alarm
- PIR Alarm
- Video Loss
- Alarm Input
- Device Exception

4.1 Configuring Motion Detection Alarm

Purpose:

A motion detection alarm is triggered when the client software detects motion within its defined area. The linkage actions, including alarm output, channel record and client action can be set.

Steps:

- 1. Open the Event Management page and click Camera Event tab.
- 2. Select the camera to be configured and select Motion Detection as the event type.
- 3. Check the checkbox Enable to enable the function of motion detection.
- 4. Select the arming schedule template from the drop-down list.

All-day Template: for all-day continuous arming.

Weekday Template: for working-hours continuous arming from 8:00 AM to 8:00 PM.

Template 01-09: fixed templates for special schedules. You can edit the templates if needed. **Custom**: can be customized as desired.

If you need to edit or customize the template, see *Configuring Arming Schedule Template*.

5. Click-and-drag the mouse to draw a defined area for the arming region.

You can click the icon 🔛 to set the whole video area as detection area, or click the icon $\overline{\mathbf{m}}$ to clear all the detection area.

- 6. Drag the slider on the sensitivity bar to adjust the motion detection sensitivity. The larger the value is, the more sensitive the detection is.
- 7. Check the checkboxes to activate the linkage actions. For details, see *Table 4.1 Linkage Actions for Motion Detection Alarm*.
- 8. Optionally, click **Copy to...** to copy the event parameters to other channels.
- 9. Click **Save** to save the settings.

elect Event Type:	Motion Detection	 IPC2_Camera1 Event 	Configuration	Copy to	H Sa
Enable Arming Schedule: Arming Region	All-day Templa	ate 🗸 Edit			
		Sensitiv	ty:		
		4			
Trigger Alarm Outp		frigger Channel Record	Trigger Clien		
Trigger Alarm Outp		1	✓ Trigger Clien ✓ Audible War		
Trigger Alarm Outp		frigger Channel Record		ning	
Trigger Alarm Outp		frigger Channel Record	Audible War	ning ge	
Trigger Alarm Outp		frigger Channel Record	Audible War Email Linka Alarm on E-I	ning ge	

Table 4.1 Linkage Actions for Motion Detection Alarm

Linkage Actions	Descriptions
	Enable the alarm output function. Select the alarm output port and the
Alarm Output	external device connected to the port can be controlled.
Channel Record	Start the recording of the selected cameras when alarm is triggered.
Audible Warning	The client software gives an audible warning when alarm is triggered.
Email Linkage	Send an Email notification of the alarm information to one or more receivers.
Alarm on E-map	Display the alarm information on the E-map.
Alarm Triggered	The Image with alarm information pops up when alarm is triggered.
Pop-up Image	
Alarm Triggered	Display the video on the Video Wall when alarm is triggered.
Video Wall Display	

Configuring Arming Schedule Template

Perform the following steps to configure the arming schedule template: If **Template 01-09** is selected in the drop-down list, start from step 1; If **Custom** is selected in the drop-down list, start from step 2.

Steps:

- 1. Click **Edit** to enter the Templates Management interface. Select the template to be set and you can edit the template name.
- 2. Set the time schedule for the selected template.

When the cursor turns to , you can edit the schedule time bar. When the cursor turns to , you can move the selected time bar you just edited. When the cursor turns to , you can lengthen or shorten the selected time bar.

- Optionally, you can select the schedule time bar, and then click the icon to delete the selected time bar, or click the icon to delete all the time bars, or click the icon to copy the time bar settings to the other dates.
- Click OK to save the settings.
 You can click Save as Schedule Template on the Custom Schedule interface, and then the custom template can be saved as template 01--09.

Note: Up to 4 time periods can be set for each day in the arming schedule template.





4.2 Configuring Tampering Alarm

Purpose:

A tampering alarm is triggered when the camera is covered and the monitoring area cannot be viewed. The linkage actions, including alarm output and client action can be set.

Steps:

- 1. Open the Event Management page and click the Camera Event tab.
- 2. Select the camera to be configured and select Tampering Alarm as the event type.
- 3. Check the checkbox **Enable** to enable the function of tampering alarm.
- Select the arming schedule template from the drop-down list.
 If you need to edit or customize the template, see *Configuring Arming Schedule Template*.
- 5. Select the triggered camera. The image or video from the triggered camera will pop up or be displayed on the Video Wall when tampering alarm occurs.
- 6. Click-and-drag the mouse to draw a defined area for the arming region.
- 7. Drag the slider on the sensitivity bar to adjust the tampering alarm sensitivity.
- 8. Check the checkboxes to activate the linkage actions. For details, see Table 4.2 Linkage Actions for Tampering Alarm.
- 9. Optionally, click **Copy to...**to copy the event parameters to other cameras.
- 10. Click **Save** to save the settings.

	Tampering Alarm	 IPC2_Cam 	era1 Event Configuration	Copy to	Save
Enable					
Arming Schedule:	All-day Tem	nplate 🗸 🗸	Edit		
Trigger Camera:	IPC1_Cam	era01	~		
Arming Region					
			2		
Trigger Alarm Out	put 🖌	Trigger Client Action			
Trigger Alarm Out		Trigger Client Action			
Trigger Alarm Out	2				
Trigger Alarm Out	2	Audible Warning			

Table 4.2 Linkage Actions for	or Tampering Alarm
-------------------------------	--------------------

Linkage Actions	Descriptions		
	Enable the alarm output function. Select the alarm output port and the		
Alarm Output	external device connected to the port can be controlled.		
Audible Warning	The client software gives an audible warning when alarm is triggered.		
Email Linkage	Send an Email notification of the alarm information to one or more receivers.		
Alarm on E-map	Display the alarm information on the E-map.		
Alarm Triggered	The Image of the triggered camera pops up when alarm is triggered.		
Pop-up Image			

Alarm TriggeredDisplay the video of the triggered camera on the Video Wall when alarm isVideo Wall Displaytriggered.

4.3 Configuring PIR Alarm

Purpose:

A PIR (Passive Infrared) alarm is triggered when an intruder moves within the detector's field of view. The heat energy dissipated by a person, or any other warm blooded creature such as dogs, cats, etc., can be detected.

Note: The PIR Alarm function requires the support of connected device.

Steps:

- 1. Open the Event Management page and click the Camera Event tab.
- 2. Select the camera to be configured and select **PIR Alarm** as the event type.
- 3. Check the checkbox **Enable** to enable the function of PIR alarm.
- 4. Input a descriptive name of the alarm.
- 5. Check the checkboxes to activate the linkage actions. For details, see *Table 4.3 Linkage Actions for PIR Alarm*.
- 6. Optionally, click Copy to... to copy the event parameters to other channels.
- 7. Click Save to save the settings.



Table 4.3 Linkage Actions for PIR Alarm

Linkage Actions	Descriptions
Alarm Output	Enable the alarm output function. Select the alarm output port and the
Alarm Output	external device connected to the port can be controlled.
Channel Record	Start the recording of the selected cameras when alarm is triggered.
Audible Warning	The client software gives an audible warning when alarm is triggered.
Email Linkage	Send an Email notification of the alarm information to one or more receivers.
Alarm on E-map	Display the alarm information on the E-map.
Alarm Triggered	The Image with alarm information pops up when alarm is triggered.
Pop-up Image	
Alarm Triggered	Display the video on the Video Wall when alarm is triggered.
Video Wall Display	

4.4 Configuring Video Loss Alarm

Purpose:

When the client software cannot receive video signal from the front-end devices, the video loss alarm will be triggered. The linkage actions, including alarm output and client action can be set. *Steps:*

- 1. Open the Event Management page and click **Camera Event** tab.
- 2. Select the camera to be configured and select Video Loss as the event type.
- 3. Check the checkbox **Enable** to enable the function of video loss alarm.
- 4. Select the arming schedule template from the drop-down list.

If you need to edit or customize the template, see Configuring Arming Schedule Template.

- 5. Select the triggered camera. The image or video from the triggered camera will pop up or be displayed on the Video Wall when video loss alarm occurs.
- 6. Check the checkboxes to activate the linkage actions. For details, see *Table 4.4 Linkage Actions for Video Loss Alarm*.
- 7. Optionally, click **Copy to...**to copy the event parameters to other cameras.
- 8. Click **Save** to save the new settings.



Table 4.4 Linkage Actions for Video Loss Alarm

Linkage Actions	Descriptions
	Enable the alarm output function. Select the alarm output port and the
Alarm Output	external device connected to the port can be controlled.
Audible Warning	The client software gives an audible warning when alarm is triggered.
Email Linkage	Send an Email notification of the alarm information to one or more receivers.
Alarm on E-map	Display the alarm information on the E-map.
Alarm Triggered	The Image of the triggered camera pops up when alarm is triggered.
Pop-up Image	
Alarm Triggered	Display the video of the triggered camera on the Video Wall when alarm is
Video Wall Display	triggered.

4.5 Configuring Alarm Input Linkage

Purpose:

When a device's alarm input port receives a signal from an external alarm device, such as smoke detector, doorbell, etc., the alarm input linkage actions are triggered for notification.

Before you start:

Add the alarm inputs to the client, click **Import** on the Group Management interface, click the **Alarm Input** tab and import alarm inputs into groups for management.

Steps:

- 1. Open the Event Management page and click the Alarm Input tab.
- 2. Select the alarm input channel to be configured.
- 3. Check the checkbox **Enable**.
- 4. Input a descriptive name of the alarm.
- 5. Set the alarm status according to the alarm input device.
- Select the arming schedule template from the drop-down list.
 If you need to edit or customize the template, see *Configuring Arming Schedule Template*.
- 7. Check the checkboxes to activate the linkage actions. For details, see *Table 4.5 Linkage Actions for Alarm Input*.
- 8. Optionally, click **Copy to...**to copy the event parameters to other alarm inputs.
- 9. Click **Save** to save the settings.

VR_A1 Event Configu	Iration		🔊 Copy to	H Save
✓ Enable Narm Name: Narm Status: Narm Status:	1 ○ Normal Open ● Normal Closed All-day Template ✓ Edit			
Trigger Alarm Out	tput I Trigger Channel Record	÷	✓ Trigger Client Action	
A->1	Camera01		Audible Warning	
A->2	Camera02		Email Linkage	
A->3	Camera03		Alarm on E-map	
🗆 A->4	Camera04		✓ Alarm Triggered Pop-up Image	
D1->1	Camera05		✓ Alarm Triggered Video Wall Di…	
D1->2	Camera06			
	Camera07			
	Camera08			
	Camera09	U		
	Camera10			
	Camera11			
	Camera12			
	Camera13			
	Camera14			
	Comerci 15	-		

Table 4.5 Linkage Actions for Alarm Input

Linkage Actions	Descriptions		
	Enable the alarm output function. Select the alarm output port and the		
Alarm Output	external device connected to the port can be controlled.		
Channel Record	Start the recording of the selected cameras when alarm is triggered.		
Audible Warning	The client software gives an audible warning when alarm is triggered.		
Email Linkage	Send an Email notification of the alarm information to one or more receivers.		

Alarm on E-map	Display the alarm information on the E-map.		
Alarm Triggered The Image with alarm information pops up when alarm is triggered.			
Pop-up Image			
Alarm Triggered	Display the video on the Video Wall when alarm is triggered.		
Video Wall Display			

4.6 Configuring Device Exception Linkage

Steps:

- 1. Open the Event Management page and click the **Device Exception** tab.
- 2. Select the device to be configured.
- 3. Select the device exception type, including HDD full, HDD exception, illegal login, etc.
- 4. Check the checkbox **Enable**.
- 5. Check the checkboxes to activate the linkage actions. For details, see *Table 4.6 Linkage Actions for Device Exception*.
- 6. Optionally, click **Copy to...**to copy the event parameters to other devices.
- 7. Click **Save** to save the settings.

Speed Dome Event Cor	figuration		Copy to	Save
Exception Type:	HDD Full	~		
Enable				
Linkage Action				
🗖 Trigger Alarm Outp	out	✓ Trigger Client Action		
A->1		Audible Warning		
🗆 A->2		Email Linkage		

Table 4.6 Linkage Actions for Device Exception

Linkage Actions	Descriptions				
Alarm Output	Enable the alarm output function. Select the alarm output port and the				
Alarm Output	external device connected to the port can be controlled.				
Audible Warning	The client software gives an audible warning when alarm is triggered.				
Email Linkage Send an Email notification of the alarm information to one or more r					

4.7 Viewing Alarm and Event Information

The information of recent alarms and events can be displayed. Click the icon in Alarms and Events Toolbar to show the Alarms and Events panel.

ndex▼	Alarm Time	Alarm Source	Alarm Details	Alarm Content	Live View	Send Email	TV Wall Display	Note	
2	2013-03-27 19:48:25	Encoding Device:IPC	Camera: IPC_Camera1	Tampering Alarm Stop					
	2013-03-27 19:48:15	Encoding Device:IPC	Camera: IPC_Camera1	Tampering Alarm Start					
	2013-03-27 19:48:14	Encoding Device:IPC	Camera: IPC_Camera1 Trig	Motion Detection Alarm Start	0				L

On the Alarms and Events panel, the following toolbar buttons are available:

6	Clear Info	Clear the information of alarms and events displayed on the list.			
in 19	Enable/Disable Alarm	Click to enable/disable image pop-up when alarms occur.			
- 9 - 9	Triggered Pop-up Image	Cick to enable/ disable image pop-up when alarms occur.			
0	Enable/Disable Audio	Click to enable/disable the audio warning for the alarm.			
ef ->>0	Auto Hide/Lock	Click to hide automatically/lock the Alarms and Events panel.			
	Maximize	Maximize the Alarms and Events panel in a new tab page.			
* *	Show/Hide	Click to show/hide the Alarms and Events panel.			

Viewing Alarms Information

Different alarm types can be displayed on the panel: Motion Detection, Video Exception, Alarm Input and Device Exception. You can check the checkbox to enable the displaying of that type alarm.

Before you start:

To display the alarms, the event parameters need to be configured.

Steps:

- 1. Click the **Alarm** tab.
- 2. Check the checkboxes of different alarm types.
- 3. When an alarm occurs, the icon withinkles to call attention. The alarm information, including the time, source, details and content will be displayed.
 - Click 🔍 to get a live view of the alarm triggered camera.
 - Click 🖾 to send an Email notification of the alarm to one or more receivers.

Click 🟙 to display the video of alarm triggered camera on the Video Wall.

Click under the Note column to input a prompt message for the alarm.

4. To clear the alarm information, click the icon sor right-click on an alarm log and then click **Clear**.

Viewing Events Information

Purpose:

The abnormal events of the client software, such as the live view failure, device disconnection, can also be displayed.

Steps:

1. Click the **Event** tab.

The event information, including the time and detailed description will be displayed.

2. To clear the event information, click the icon solution or right-click on the event log and then click **Clear**.

Chapter 5 E-map Management

Purpose:

The E-map function gives a visual overview of the locations and distributions of the installed cameras and alarm input devices. You can get the live view of the cameras on the map, and you will get a notification message from the map when alarm is triggered.

Click the kine icon on the control panel,

or click View->E-map to open the E-map page.



E-map Page

- 1 Group List
- 2 Map Display Area
- 3 E-map Toolbar

5.1 Adding an E-map

Purpose:

An E-map needs to be added as the parent map for the hot spots and hot regions.

Steps:

- 1. Open the E-map page.
- 2. Select a group for which you want to add a map.
- 3. Click the icon 🥙 in the Map Display Area to open the map adding dialog box.
- 4. Input a descriptive name of the added map as desired.
- 5. Click the icon and select a map file from the local path.
- 6. Click **OK** to save the settings.

Notes:

- The picture format of the map can only be *.png, *.jpg or *.bmp.
- Only one map can be added to a group.

	E-map Info	×		
Map Name:	Main Map1			
Path:	C:/Documents and Settings/Ad			
	OK Cano	ol		
	OK	ei		

The map added is displayed in the Map Display Area. Use the mouse wheel to zoom in or zoom out on the map. You can click-and-drag the yellow window in the lower-right corner or use the direction buttons and zoom bar to adjust the map area for view.



Click the button **Edit Map** or **Map Preview** in the E-map toolbar to enter the map editing mode or map preview mode.

E-map Toolbar in Map Editing Mode:

Map Preview Edit Map	🐼 🥸	õ 👂 🥴	I I I	Search					
E-map Toolbar in Map Preview Mode:									
Map Preview Edit Map				Search P					

On the E-map page, the following toolbar buttons are available:

2	Modify Map	Modify the map information, including the map name and file path.
	Delete Map	Delete the current map.
•	Add Camera	Add a camera as the hot spot on the map.
	Add Alarm Input	Add an alarm input sensor as the hot spot on the map.
	Add Hot Region	Add a map as the hot region on the current map.
D	Modify	Modify the information of the selected hot spot or hot region.

\checkmark	Delete	Delete the selected hot spot or hot region.
	Clear Alarm Info	Clear the alarm information displayed on the map.
AR	Back to Parent Map	Go back to the parent map.

5.2 The Hot Spot Function

Purpose:

The cameras and alarm inputs can be added on the map and are called the hot spots. The hot spots show the locations of the cameras and alarm inputs, and you can also get the live view and alarm information of the surveillance scenarios through the hot spots.

5.2.1 Adding Hot Spots

Adding Cameras as Hot Spots

Steps:

- 1. Click the Edit Map button in the E-map toolbar to enter the map editing mode.
- 2. Click the icon 🚳 in the toolbar to open the Add Hot Spot dialog box.
- 3. Check the checkboxes to select the cameras to be added.
- 4. Optionally, you can edit hot spot name, select the name color and select the hot spot icon.
- 5. Click **OK** to save the settings. The camera icons are added on the map as hot spots and the icons of added cameras changes from a to a in the group list. You can click-and-drag the camera icons to move the hot spots to the desired locations.

You can also click-and-drag the camera icons from the group list to the map directly to add the hot spots.

	Add Hot Spot	
Linked Camera	Hotspot Name	Hotspot Color Hot Spot Icon
IPC_Camera1	IPC_Camera1	📕 Green 💿
VR001_Camera1	NVR001_Camera1	📒 Green 🔊
VR001_Camera2	NVR001_Camera2	📕 Green 👩
NVR001_Camera3	NVR001_Camera3	📕 Green 👩
NVR001_Camera4	NVR001_Camera4	📕 Green 💿
NVR002_Camera1	NVR002_Camera1	📕 Green 👩
NVR002_Camera2	NVR002_Camera2	📕 Green 💿
NVR002_Camera3	NVR002_Camera3	📕 Green 👩
NVR002_Camera4	NVR002_Camera4	📕 Green 👩
NVR002_Camera5	NVR002_Camera5	📒 Green 👩
NVR002_Camera6	NVR002_Camera6	📕 Green 💿
•) →
		OK Cancel

Adding Alarm Inputs as Hot Spots

Steps:

- 1. Click the **Edit Map** button in the E-map toolbar to enter the map editing mode.
- 2. Click the icon 🖉 in the toolbar to open the Add Hot Spot dialog box.

- 3. Check the checkboxes to select the alarm inputs to be added.
- 4. Optionally, you can edit hot spot name, select the name color and select the hot spot icon.
- Click OK to save the settings. The alarm input icons are added on the map as hot spots and the icons of added alarm inputs changes from level to level in the group list. You can click-and-drag the alarm input icons to move the hot spots to the desired locations.

You can also click-and-drag the alarm input icons from the alarm input list to the map directly to add the hot spot.

Add Hot Spot	•	
Hotspot Name	Hotspot Color Hot Spot Icon	ŕ
IPC001_A1	📕 Green 🛛 🚇	
NVR001_A1	📕 Green 🛛 🚇	
NVR001_A2	📕 Green 🔋	
NVR001_A3	📕 Green 🛛 🚇	
NVR001_A4	📕 Green 🛛 🚇	
NVR002_A1	📕 Green 📕	
NVR002_A2	📕 Green 🛛 🚇	
NVR002_A3	📕 Green 📕	
NVR002_A4	📕 Green 🛛 🚇	L
NVR002_A5	📕 Green 📕	
NVR002_A6	📕 Green !	
) ,	
	OK Cance	el
	IPC001_A1 NVR001_A1 NVR001_A2 NVR001_A3 NVR001_A4 NVR002_A1 NVR002_A2 NVR002_A3 NVR002_A4 NVR002_A5	IPC001_A1 Green IPC001_A1 NVR001_A1 Green IPC001_A1 NVR001_A2 Green IPC001_A1 NVR001_A3 Green IPC001_A1 NVR001_A4 Green IPC001_A1 NVR002_A1 Green IPC001_A1 NVR002_A2 Green IPC001_A1 NVR002_A3 Green IPC001_A1 NVR002_A4 Green IPC001_A1 NVR002_A5 Green IPC001_A1

5.2.2 Modifying Hot Spots

Purpose:

You can modify the information of the added hot spots on the map, including the name, the color, the icon, etc.

Steps:

- 1. Click the **Edit Map** button in the E-map toolbar to enter the map editing mode.
- Select the hot spot icon on the map and then click in the toolbar, or double-click the hot spot icon on the map to open the Modify Hot Spot dialog box.
- 3. You can edit the hot spot name in the text field and select the color, the icon and the linked camera or alarm input.
- 4. Click **OK** to save the new settings.

To delete the hot spot, select the hot spot icon and click 💟 in the toolbar.

	Modify hot spot			Modify	hot spot	
Hot spot name:	IPC_Camera1		Hot spot name:	IPC001_A1		
Linked Camera:			Linked Alarm Input:			
✓ IPC_Camera1		·	✓ IPC001_A1			
NVR001_Camera1			NVR001_A1			
NVR001_Camera2			NVR001_A2			
NVR001_Camera3			NVR001_A3			
NVR001_Camera4			NVR001_A4			
NVR002_Camera1			NVR002_A1			
NVR002_Camera2		U	NVR002_A2			U
NVR002_Camera3			NVR002_A3			
NVR002_Camera4			NVR002_A4			
NVR002_Camera5		•	NVR002_A5			-
Hotspot Color: 📕 Gre	en 🗸 Hotspot Icon: 🝙	~	Hotspot Color: 📕 Gr	een v	Hotspot Icon: 🚇	~
		OK Cancel				OK Cancel

5.2.3 Previewing Hot Spots

Steps:

- 1. Click the Map Preview button in the E-map toolbar to enter the map preview mode.
- 2. Double-click the camera hot spots, and you can get the live view of the cameras.
- 3. If there is any alarm triggered, an icon will appear and twinkle near the hot spot. Click the alarm icon, and then you can check the alarm information, including alarm type and triggering time.

Note: To display the alarm information on the map, the Alarm on E-map functionality needs to be set as the alarm linkage action.



5.3 The Hot Region Function

Purpose:

The hot region function links a map to another map. When you add a map to another map as a hot region, an icon of the link to the added map is shown on the main map. The added map is called child map while the map to which you add the hot region is the parent map. *Note:* A map can only be added as the hot region for one time.

5.3.1 Adding Hot Regions

Before you start:

Add another map to the group.

Steps:

- 1. Click the Edit Map button in the E-map toolbar to enter the map editing mode.
- 2. Select an added map as the parent map.

- 3. Click the icon in the toolbar to open the Add Hot Region dialog box.
- 4. Check the checkbox to select the child map to be linked.
- 5. Optionally, you can edit the hot region name, and select the hot region color and icon.
- Click OK to save the settings. The child map icons are added on the parent map as the hot regions.
 You can click-and-drag the child map icons to move the hot regions to the desired locations.

	Add Hot Region	,
🗖 Linked Map	HotRegion Name	HotRegion Hot Region Icon
child map	child map	📒 Green 🔣
		OK Cancel

5.3.2 Modifying Hot Regions

Purpose:

You can modify the information of the hot regions on the parent map, including the name, the color, the icon, etc.

Steps:

- 1. Click the Edit Map button in the E-map toolbar to enter the map editing mode.
- 2. Select the hot region icon on the parent map and then click in the toolbar, or double-click the hot region icon to open the Modify Hot Region dialog box.
- 3. You can edit the hot region name in the text field and select the color, the icon and the linked child map.
- 4. Click **OK** to save the new settings.

To delete the hot region, select the hot region icon and click 💟 in the toolbar.

		Modify Hot	t Region		×
Hot Region Name:	child map				
Linked Map:					
🗹 child map					
Hot Region Color: 📕	Green	~	Hot Region Ico	n: 💌	~
			(ОК	Cancel

5.3.3 Previewing Hot Regions

Steps:

- 1. Click the **Map Preview** button in the E-map toolbar to enter the map preview mode.
- 2. Click the hot region icon to go to the linked child map.
- 3. The hot spots can also be added on the hot regions.
- 4. You can click the icon 🚳 in the toolbar to go back to the parent map.

You can also click the icon 🛄 in the toolbar to clear the alarm information.



Chapter 6 Log Management

Purpose:

Click the

The log files of the client software are stored on the local PC and can be searched for checking. 2 types of log files are provided: client logs and server logs. The client logs refer to the log files of the client and are stored on the local PC; the server logs refer to the log files of the connected devices and are stored on the local device.

Q icon on the control panel to open the Log Search page. Log Search Client Log Lists 🕒 Log Filter 🛛 🔂 Backup Log Olient Logs Operation time 🔺 Name Log Type Description Device Name Group Na Server Logs Start Time: **1** 2013-08-25 00:00:00 End Time: **1** 2013-08-25 23:59:59 Q, Search Total 0 Page 1/1 1 Page Go

Searching Log Files

Steps:

- 1. Open the Log Search page.
- 2. Select the log type. If Server Logs is selected, then click to specify the device for search.
- 3. Click the icon to specify the start time and end time.
- 4. Click Search. The log files between the start time and end time will be displayed on the list.

You can check the operation time, description and other information of the logs.

Note: Up to 36000 items of logs can be displayed. Please narrow the time range or filter the log type for search if there are too many log files.

Operation time	🚔 Name	Log Type	Description	Device Name	Device Type	Group Nam
2013-08-25 09:54:24	admin	System Log	User Login			
2013-08-25 10:16:00	admin	System Log	User Logoff			
2013-08-25 10:39:43	admin	System Log	User Login			
2013-08-25 10:40:07	admin	System Log	User Logoff			
2013-08-25 10:41:06	admin	System Log	User Login			
2013-08-25 10:41:17	admin	Operation Log	Local Configuration	n		
2013-08-25 10:42:18	admin	System Log	Lock			
2013-08-25 10:43:32	admin	System Log	Unlock			
2013-08-25 10:43:35	admin	System Log	User Logoff			
2013-08-25 10:45:06	admin	System Log	User Login			
2013-08-25 11:01:10	admin	System Log	User Login			
2013-08-25 11:18:11	admin	System Log	User Logoff			

Filtering Log Files

Purpose:

After searched out successfully, the log files can be filtered by the keyword or condition, and thus you can find the logs as you want.

Steps:

- 1. Click Log Filter or the icon 💌 on the Log Search page to expand the Log Filter panel.
- 2. Select **Filter by Keyword**, and then input keyword for filtering in the text field; or select **Filter by Condition**, and then specify log information in the drop-down list.
- 3. Optionally, you can click More... to filter the log files more accurately.
- 4. Click Filter to start filtering. You can click Clear Filter the clear the filtering.

Client Log Lists		📑 Log F	ilter	谒 Backup Log
 Filter by Keyword: Filter by Condition: 	Keywords		Ť	Clear Filter More
Log Type:	All		Filter	
Description Information:	All 💙			

Backing up Log Files

Purpose:

The log files, including the client logs and server logs, can be exported for backup.

Steps:

- 1. Select the log file from the list after searching out the log files.
- 2. Click **Backup Log** to open the Backup Log dialog box.
- 3. Click the icon and select a local saving path.
- 4. Click **Backup** to export the selected log file for backup.

You can click **File** \rightarrow **Open Log File** to check the information of the backup log files on local PC.

E	ackup Log	
Saving Path:		
	Backup	Cancel

Chapter 7 Account Management and System Configuration

7.1 Account Management

Purpose:

Multiple user accounts can be added to the client software, and you are allowed to assign different permissions for different users if needed.

Click the 📕 icon on the control panel,

or click Tool->Account Management to open the Account Management page.

User List	🔶 Add Us	ser 🖉 Edit User 🛛 🔅 Delete User	
Index.	Name	Type	
1	admin	SuperUser	

Note: The user account you registered to log in the software is set as the super administrator.

Adding the User

Steps:

- 1. Open the Account Management page.
- 2. Click Add User to open the Add User dialog box.
- 3. Select the user type from the drop-down list. 2 types of user accounts are selectable:

Administrator: The administrator account has all permissions by default, and can modify the passwords and permissions of all operators and its own account.

Operator: The operator account as no permission by default and you can assign the permissions manually. An operator can only modify the password of its own account.

- 4. Input the user name, password and confirm password as desired.
- 5. Check the checkboxes to assign the permissions for the created user.
- 6. Optionally, you can click **Default Permission** to restore the default permissions of this user.
- 7. Click **Save** to save the settings.

Notes:

• A user name cannot contain any of the following characters: /: *? "<> |. And the length of the

password cannot be less than 6 characters.

Up to 50 user accounts can be added for the client software. •

		Add	User		×
User Information					
User Type:	Administrator	~	Name:		
Password:			Confirm Password:		
User			Live View related		
✓ All		-	🖃 🗹 IPC1		,
Live View			IPC_Came	ra1	
PTZ Control			✓ NVR001_C	amera1	
Capture			✓ NVR001_C	amera2	
Record			✓ NVR001_C	amera3	
Camera Settings		U	✓ NVR001_C	amera4	
Play Back Remote Record File(s)			NVR002_C	amera1	
Download ren	note record file(s)		NVR002_C	amera2	
🗹 Remote Reco	rding		NVR002_C	amera3	
🗹 Two-way Audio	D		NVR002_C	amera4	
Synchronization	on		NVR002_C	amera5	
Picture backup	p		NVR002_C	amera6	
Backup Record	rd File(s)	-	NVR002_C	amera7	-
			Defa	ult Permission	Save

Managing the User

Purpose:

After created successfully, the user account is added to the user list on the Account Management page. You can edit or delete the information of the user accounts.

To edit the information of the user, select the user from the list, and click Edit User.

To delete the information of the user, select the user from the list, and click **Delete User**.

7.2 System Configuration

Purpose:

The general parameters, file saving paths, keyboard and joystick shortcuts, alarm sounds and Email settings can be configured.

Click the control panel,

or click Tool->System Configuration to open the System Configuration page.

	System	Configuration		×
File Keyboard and Joystick Carl Alarm sound Email	Set frequently used paramet (Log expired time, display so Log Expired Time: View Scale: Network Performance: Play Performance: © Enable auto-login © Enable auto-login © Prioritize the playback of rec Ø Resume live view status Ø Auto-Change Stream Type © Auto Time Adjustment	ers iale, play performance, etc AMonth Full Screen Normal Better Best Real Time lay	· ·	×
			Default Value	Save

Note: You can click **Default Value** to restore the defaults of all the system configurations.

7.2.1 General Settings

Purpose:

The frequently-used parameters, including the log expired time, view scale, etc., can be set.

Steps:

- 1. Open the System Configuration page.
- 2. Click the **General** tab to enter the General Settings interface.
- 3. Configure the general parameters. For details, see *Table 7.1 General Parameters*.
- 4. Click **Save** to save the settings.

Set frequently used parameters	3		
(Log expired time, display scal	e, play performance, etc.).	
Log Expired Time:	A Month	~	
View Scale:	Full Screen	~	
Network Performance:	Normal Better Best		
Play Performance:	Real Time	~	
Enable screen toolbar display	(
Enable auto-login			
Prioritize the playback of record	d files on storage server		
Resume live view status			
Auto-Change Stream Type			
Auto Time Adjustment:	00:00:00	* *	

Table 7.1General Parameters

Parameters	Descriptions
Log Expired Time	The time for keeping the log files, once exceeded, the files will be deleted.
View Scale	The view scale of the video in live view or playback. It can be set as Full

	Screen, 4:3, 16:9 or Original Resolution.
Network Performance	The current network conditions. It can be set as Normal, Better or Best.
Diau Darformanco	The play performance of the live video. It can be set as Shortest Delay, Real
Play Performance	Time, Balanced or Fluency.
Enable Screen Toolbar	Show the toolbar on each display window in live view or playback.
Display	
Enable Auto-login	Log in the client software automatically.
Prioritize the Playback	Play back the video files recorded on the storage server preferentially.
of Record Files on	Otherwise, play back the video files recorded on the local device.
Storage Server	
Resume Live View	Resume the latest live view status after you log in the client again.
Status	
Auto-change Stream	Change the stream type automatically in live view according to the size of
Туре	the display window.
Auto Time Adjustment	Adjust the time automatically at a specified time point.

7.2.2 File Saving Path Settings

Purpose:

The video files from manual recording, the captured pictures and the system configuration files are stored on the local PC. The saving paths of these files can be set.

Steps:

- 1. Open the System Configuration page.
- 2. Click the **File** tab to enter the File Saving Path Settings interface.
- 3. Click the icon i and select a local path for the files.
- 4. Click **Save** to save the settings.

Set file saving path,
(e.g. record files, pictures and device configuation files, etc.).
Saving path of video file:
C:/NVMS7000/video/ ···
Saving Path of Pictures:
C:/NVMS7000/capture/
Saving Path of Configuration File:
C:/NVMS7000/config/

7.2.3 Keyboard and Joystick Shortcuts Settings

Purpose:

keyboard can be connected to the client and be used to control the PTZ cameras. You can set the shortcuts of PC keyboard and USB joystick to get quick and convenient access to the commonly used actions.

Steps:

- 1. Select the COM port from the drop-down list if keyboard is connected.
- 2. Select a certain function from the list.
- 3. Double-click the item field under the PC Keyboard or USB Joystick column.
- 4. Select the compound keys operation or USB joystick operation from the drop-down list.
- 5. Click **Save** to save the settings.

Configure key PC keyboard	board COM, and USB joystick	shortcut	s, etc.			
eyboard Settin	igs:					
OM Joystick:	NULL		~			
C Keyboard Ar	d USB Joystick Sel	tings:				
🕖 Set up sho	rtcuts of PC keyboa	ard and U	SB joystick for frequent	y used fu	nctions of the system) .
Index	Function		PC Keyboard		USB Joystick	
1	Capture		Ctrl + Print Screen			
2	Speed Up					
3	Speed Down					
4	Focus (+)		Ctrl + Home			
5	Focus (-)		Ctrl + End			
6	Zoom In (+)		Ctrl + +			
7	Zoom Out (-)		Ctrl + -			
8	IRIS (+)		Ctrl + Page Up			

7.2.4 Alarm Sound Settings

Purpose:

When the alarm, such as motion detection alarm, video exception alarm, etc., is triggered, the client can be set to give an audible warning and the sound of the audible warning can be configured.

Steps:

- 1. Open the System Configuration page.
- 2. Click the Alarm Sound tab to enter the Alarm Sound Settings interface.
- 3. Click the icon 🛄 and select the audio files from the local path for different alarms.
- 4. Optionally, you can click the icon ៅ for a testing of the audio file.
- 5. Click Save to save the settings.

Note: The format of the audio file can only be *wav.

Set alarm sound, (e.g. motion detection alarm,video	exception alarm, alarm input and device exception alarm)
lotion Detection:	
notion.wav	+3
ideo Exception:	
rideo_abnormal.wav	
larm Input	
alarm_input.wav	
evice Exception:	
device_abnormal.wav	+3

7.2.5 Email Settings

Purpose:

An Email notification can be sent when a system alarm occurs. To send the Email to some specified receivers, the settings of the Email need to be configured before proceeding.

Steps:

- 1. Open the System Configuration page.
- 2. Click the **Email** tab to enter the Email Settings interface.
- 3. Input the required information.

SMTP Server: Input the SMTP Server address.

Port: Input the communication port of Email service. The port is 25 by default.

User Name: Input the user name of the sender Email address.

Password: Input the password of the sender Email address.

Sender Address: Input the Email address of the sender.

Receiver 1—3: Input the Email address of the receiver. Up to 3 receivers can be set.

- 4. Optionally, you can check the checkbox Enable SSL to increase the security of email sending.
- 5. Optionally, you can click **Send Test Email** to send an email to the receiver for test.
- 6. Click **Save** to save the settings.

Set email parameters including sender and recipient.				
MTP Server:	[]			
ort	25			
Name:				
Password:				
Sender Address:				
Receiver 1:				
Receiver 2:				
Receiver 3:				
Enable SSL				
Send Test Email				

Chapter 8 Forwarding Video Stream through Stream Media Server

Purpose:

There is always a limit of the device remote access number. When there are many users wanting to get remote access to the device to get the live view, you can add the stream media server and get the video data stream from the stream media server, thus to lower the load of the device.

8.1 Adding the Stream Media Server

Before you start:

The stream media server application software needs to be installed and it is packed in the NVMS7000 software package. When installing the NVMS7000, check the checkbox **Stream Media Server** to enable the installation of stream media server.

Steps:

1. Click the shortcut icon **I** on the desktop to run the stream media server.

Note: You can also forward the video through the stream media server installed on other PC.

- 2. Open the Device Management page and click the Server tab.
- 3. Click Add New Device Type, select Stream Media Server and click OK.
- 4. Click Stream Media Server on the list and then click Add Device.

You can add the stream media server in the following two ways:

• Adding Stream Media Server Manually

Perform the following steps to add the stream media server manually:

- 1) Select **IP Address** as the adding mode.
- 2) Input the nickname and IP address of the stream media server. The default port value is *554*.
- 3) Click Add to add the stream media server to the client software.

Adding Mode:	
IP address	 IP Segment
Nickname:	
IP address:	
Port: 554	
	Add Cancel

• Adding Stream Media Server by IP Segment

Perform the following steps to add the stream media server by IP segment:

- 1) Select **IP Segment** as the adding mode.
- 2) Input the start IP and end IP. The default port value is 554.
- 3) Click **Add** to add the stream media server to the client software.

		Add	
Adding Mode:			
() IF	° address	 IP Segment 	
Start IP:			
End IP:			
Port	554		
		Add	Cancel

Notes: For one client, up to 16stream media servers can be added.

8.2 Adding Cameras to Stream Media Server to Forward Video Stream

Purpose:

To get the video stream of a camera via stream media server, you need to connect the camera to the stream media server.

Steps:

- 1. Select the stream media server from the list.
- 2. Click **Configure** to enter the Stream Media Server Settings interface.
- 3. Select the cameras of which the video stream is to be forwarded via the stream media server.
- 4. Click **OK** to save the new settings.
- 5. Go the Main View page and start the live view of the cameras again. You can check the channel number of the video stream forwarded through or sent from the stream media server.

Note: For one stream media server, up to 64 channels of video stream can be forwarded through it and up to 200 channels of video stream can be sent to clients from it.

			Stream	Media Server		_ ×
Stream Media Server Settings ×				No. of channels: No. of users:	2 2	09:52:00
	Configure	About		No. 01 03013.	L	2013-05-10
🖃 🔳 🖨 IPC1-Encoding Channel	Operation	Client IP	Client Port	Time		
IPC_Camera1	Enter	172.6.23.106	57893	2013-05-10 09:51:23		
WR001_Camera1	Enter	172.6.23.106	57898	2013-05-10 09:51:25		
WR001_Camera2						
NVR001_Camera3						
WR001_Camera4						
WR002_Camera1						
WR002_Camera2						
WR002_Camera3						
WR002_Camera4						
WR002_Camera5						
C & NVR002_Camera6						
OK Cancel						

Chapter 9 Decoding and Displaying Video on Video Wall

The Video Wall module is only available when the decoding device is added to the client. It provides the video decoding functionality, and the decoded video stream can be displayed on the Video Wall for an attention-grabbing performance.

Click the ticon on the control panel,

or click View->Video Wall to open the Video Wall page.



9.1 Adding the Decoding Device

Purpose:

To display the video on the Video Wall, the decoding device needs to be added to the client. *Steps:*

- 1. Open the Device Management page and click the **Server** tab.
- 2. Click Add New Device Type, select Decoding Device and click OK.
- 3. Click **Decoding Device** on the list to enter Decoding Device Adding interface.

	Device for Management (0)		
Encoding Device	Add Device Modify	Delete Remote Confi	Filter
📶 storage server	Nickname 🔺 IP	Device Serial No.	Resource Usage Status
👖 Stream Media Server			
Decoding Device			
	Online Device (0)	Refresh Every 15s	
			sword Filler
	Add to Client Add All	Modify Netinfo Restore Default Pas	
			sword Filter
	Add to Client Add All	Modify Netinfo Restore Default Pas	

You can add the decoding device in the following ways:

- By detecting the online devices, see Section 2.2.1 Adding Online Devices.
- By specifying the device IP address, see Section 2.2.2 Adding Devices Manually.
- By specifying an IP segment, see Section 2.2.3Adding Devices by IP Segment.
- By IP Server, see Section 2.2.4Adding Devices by IP Server.

9.2 Configuring Video Wall Settings

Purpose:

After the decoding device is added successfully, the parameters of Video Wall need to configured for video display.

Steps:

- 1. Open the Video Wall page.
- 2. Click Enter Video Wall Config to enter the Video Wall Configuration interface.
- There is a 3*3 video wall on the screen by default. You can add a new video wall if needed.
 Perform the following steps to add a new video wall:
 - 1) Click the icon 🗰 in the toolbar to open the Add Video Wall dialog box.
 - 2) Input the nickname, the number of rows and columns of the video wall.
 - 3) Click Add.

Add Video Wall				
Video Wall Name:				
Row:	3			
Column:	3			
	Add	Cancel		
	Add	Cancer		

To modify the video wall, select the video wall, and click the icon \swarrow in the toolbar. To delete the video wall, select the video wall, and click the icon \checkmark in the toolbar.

4. Click-and-drag the decoding channel on the left-side list to the display window of video wall, to

connect them one-to-one correspondence. You can click M in the upper-right corner of the display window to release the connection.

Notes:

- Up to 4 video walls can be added to the client software.
- The total number of the display windows on the video wall should be no more than 100.
- The ranges of the row number and column number are both between 1 and 20.



9.3 Displaying Video on Video Wall

Purpose:

After the settings of the video wall are configured, the video stream from the cameras can be decoded and displayed on the Video Wall.

Steps:

- 1. Click Back to Operation Page to go back to the Video Wall Operation interface.
- 2. Select the screen layout mode for the display window.
- Click-and-drag the camera from the left-side list to the display window on the video wall.
 The video stream from the camera will be decoded and displayed on the Video Wall. Click the icon and you can get a preview of the video in the lower-right corner of the screen.



Troubleshooting

Live View

Problem:

• Failed to get the live view of a certain device.

Possible Reasons:

- Unstable network or the network performance is not good enough.
- The device is offline.
- Too many accesses to the remote device cause the load of the device too high.
- The current user has no permission for live view.
- The version of the client software is below the needed version.

Solutions:

- Check network status and disable other not in use process on your PC.
- Check the device network status.
- Restart the device or disable other remote access to the device.
- Log in with the admin user and try again.
- Download the client software of the latest version.

Recording

Problem:

• Local recording and remote recording are confused.

Solutions:

- The local recording in this manual refers to the recording which stores the record files on the HDDs, SD/SDHC cards of the local device.
- The remote recording refers to the recording action commanded by the client on the remote device side.

Playback

Problem:

• Failed to download the record files or the downloading speed is too slow.

Possible Reasons:

- Unstable network or the network performance is not good enough.
- The NIC type is not compatible.
- Too many accesses to the remote device
- The current user has no permission for playback.
- The version of the client software is below the needed version.

Solutions:

- Check network status and disable other not in use process on your PC.
- Directly connect the PC running the client to device to check the compatibility of the NIC card.
- Restart the device or disable other remote access to the device.
- Log in with the admin user and try again.
- Download the client software of the latest version.