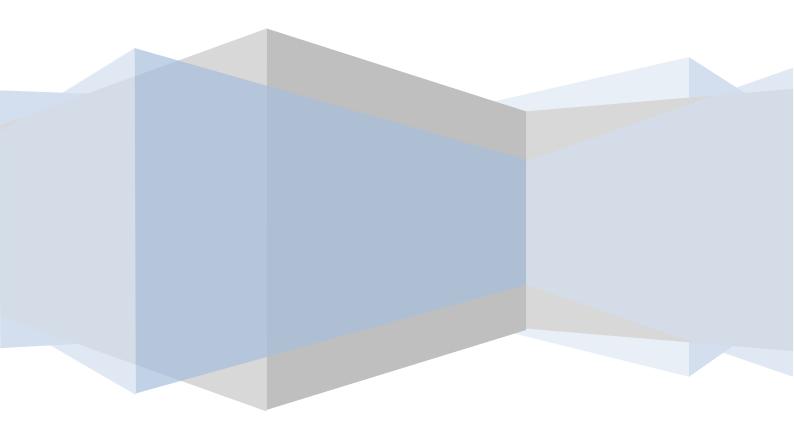
NVMS1000

User Manual



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1 Software Introduction

In this chapter, you will read a detailed introduction of the operation environment, install & uninstall of this software.

1.1 Summary

Network Video Monitoring System (hereinafter referred to as "NVMS1000") is a monitoring client which is specially designed for network video surveillance. After the network video monitoring system is well built, the super administrator can control the video input signal devices, such as cameras, domes, etc., to achieve live monitor, video record and backup by configuring the video parameters and viewing the live in the control panel. Users can choose the menu to control video surveillance system in the control panel.

The main functions of the control panel include live view, playback, E-map, device management, group and scheme settings, user account and permission, local log, basic configuration and alarm management.

1.2 Operation Environment

1) Operating System Requirement

System	Recommendation
Windows XP	Windows XP professional version (32bit), direct 9.0c. Microsoft YaHei front need to be installed.
Windows 7	Windows 7 (32bit/64bit, support SP1), Direct 11.0 or above
Windows 8	Windows 8 (32bit/64bit), Direct 11.0 or above

2) Hardware Requirement

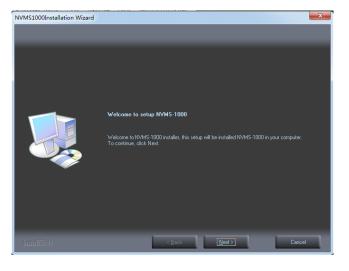
Item	Recommendation
CPU	Intel Core Dou, 2.6GHz or higher
Memory	2GB or above
HDD	250GB or above
Graphics Card	Independent graphics card; 512M graphics memory or higher

3) When running NVMS1000, you need to ensure that all the running antivirus software and firewall are closed, so that the program of the NVMS1000 can be installed.

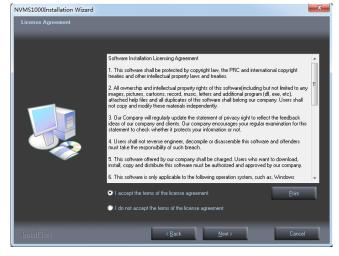
1.3 Install and Uninstall

1.3.1 Install the Software

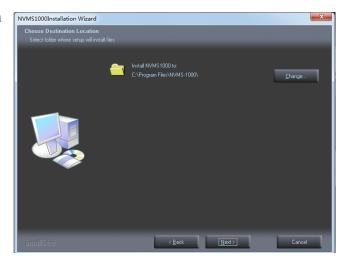
Double click "setup.exe" to go to the MVMS1000Installation Wizard installation wizard. Click "Next" to continue.



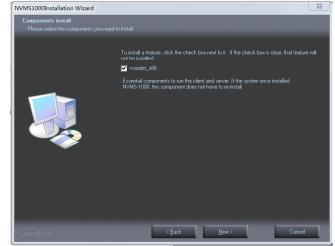
Select "I accept the terms of the license agreement" and then click "Next" to continue.



Click "Change" to change the installation path. Click "Next" to continue.



Check "vcredist_x86" and then click "Next" to install this plug-in.

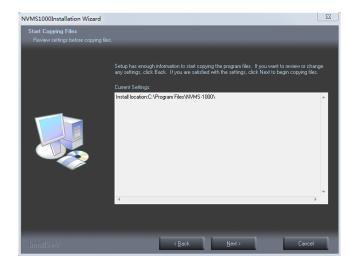


Click "Next"; check "I have read and accept the license terms" and then click "Install" to start installing vcredist_x86; click "Finish" to complete the installation. Refer to the following pictures.

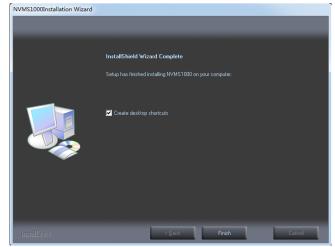
Microsoft Visual C++ 2008 Redistributable Setup		🔀 Microsoft Visual C++ 2008 Redistributable Setup
Welcome to Microsoft Visual C++ 2008 Redistributable Setup		License Terms
This wizard will guide you through the installation process.		Be sure to carefully read and understand all the rights and restrictions described in the license terms. You must accept the license terms before you can install the software. MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT VISUAL C++ 2008 RUNTIME LIBRARIES (X86, IA64 AND X64), SERVICE PACK 1 These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft • updates,
		Press the Page Down key to see more text.
Next >	Cancel	I have read and accept the license terms. < Back
썘 Microsoft Visual C++ 2008 Redistributable Setup		戌의 Microsoft Visual C++ 2008 Redistributable Setup
Setup Complete		Maintenance mode
Microsoft Visual C++ 2008 Redistributable has been successfully i	nstalled.	Select one of the options below:
It is highly recommended that you download and install the latest service pad security updates for this product.	rs and	Repair Repair
For more information, visit the following Web site:		Repair Microsoft Visual C++ 2008 Redistributable to its original state.
Product Support Center		© Uninstall
		Uninstall Microsoft Visual C++ 2008 Redistributable from this computer.
	Einish	Next > Cancel

Note: If vcredist_x86 has been installed, please click "Repair" and then click "Next" to repair it. Click "Finish" to finish repairing.

Click "Next" to continue.



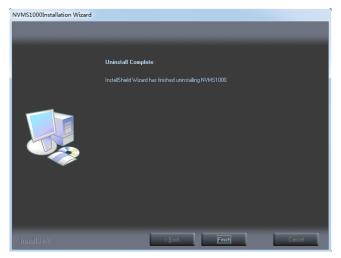
At last, check "Create desktop shortcuts" and then click "Finish" to complete the installation.



1.3.2 Uninstall the Software

Click "Start" menu on the desktop and find the shortcut of NVMS1000. Click "Uninstall" to pop up a dialog window and then click "Yes" to uninstall NVMS1000.

Click "Finish" to end the uninstallation after the uninstallation is finished.



2 Login Software

🔍 Register Super User

2.1 Login

First time to login:

• If you run NVMS1000 for the first time, you need to register a super administrator. You shall self-define the username and password.

• To avoid forgetting the password, you can set some questions and answers to help you find the password quickly.

• After you set the username, password and the questions and answers, please click "Register" to register the super administrator.

Input the registered username and password and then click "Login" to enter into the software.

If checking "Remember Password", there will be no need to input the password when you log in next time.

If checking "Auto Login", it will log in as current user next time automatically.



Successful login for the first time:

After successful login, a window will pop up. Check the partition for storing record files and then click "OK" to save the settings.

🔍 Re	Record Partition X							
S	Set the Partition of the System Record							
	Please select the partition of the system record. The available space of the partition must be more than 3GB.							
	Partition Symbol	Partition Size	Remaining Space					
	C:	48.73G	12.96G					
	D:	126.95G	67.42G					
	E:	0.10G	0.01G					
	F:	148.37G	118.13G					
4	4 (Q)							
	OK							

2.2 Control Panel Instruction

The control panel of NVMS1000 is shown as below.



The main interface of NVMS1000 consists of five areas. The descriptions of each area are as follows.

Area	Description		Description
1	Tab Bar (displaying the operated functions)	2	Menu Bar
3	Function Area	4	Alarm Information List
5	Status Bar		

Descriptions of Menu Bar

Menu	Description			
StartIncluding "Control Panel", "Live Preview", "Playback", "Lo "Quit".ViewIncluding "Live Preview", "Control Panel", "Local Log", "Alarm Preview", "Playback" and "Organize View".				
Help	Including "User Manual" and "About NVMS1000".			

Descriptions of Function Area

Menu	Description
5	Live Preview. To view live images and to record, snap and control PTZ, etc.
	Record And Playback. To remotely play the local record.
	E-map. To manage and display maps, hot zones and hot spots.
	Device. To create, modify or delete devices, areas and cameras.
	Group and Scheme Settings. To create, modify or delete camera groups and schemes.
	User Management. To add, modify or delete user and user permission.
	Alarm Management. To add or remove the sensor of the area; to set up alarm trigger and modify the area of the sensor.
O o	Basic. To setup record partition and path, system startup and maintenance & backup and restoration.
	Local Log. To search, view and backup local log.

Descriptions of Other Buttons

Button	Description				
-	Click it to hide the interface.				
	Click it to zoom in/out the interface.				
×	Click it to exit NVMS1000.				
∇	Click it to extend or shrink the window (eg. Extend or shrink the alarm information list).				

3 Device Management

Click in the control panel to go to the device management interface as shown below. In the interface, you can view the device type, IP address/domain name, online status, disk status, record status and alarm status of all the added devices.

Add, Edit or Delete Device								
😳 Add device or select the device from the list to edit or delete. The changing item contains the local configuration of the device,								
🚢 Add Device 🥖	Edit 前 D	elete	_		_		_	
Device Name	Туре	IP Address/Domain Na	Online state	Disk state	Rec state	Alarm state		
New Device001	DVR	192.168.122.36						
New Device002	IPC	192.168.12.19				<u> </u>		
New Device003	IPC	192.168.12.158					ŝ	
New Device004	IPC	192.168.10.5						
New Device005	IPC	192.168.12.89				<u> </u>	Ì	
New Device006	IPC	192.168.10.3				<u> </u>		
New Device007	IPC	192.168.10.16						
New Device008	IPC	192.168.10.4						
New Device009	IPC	192.168.12.160				<u> </u>		
New Device010	IPC	192.168.12.199						
New Device011	IPC	192.168.10.7						
New Device012	IPC	192.168.122.110	.			<u> </u>		

Click disk status icon \square to view the disk abnormal records of the device; click \square to view the video records; click \square to view the alarm records and then click the unprocessed alarm record to process it.

Right click a title bar of the device list to pop up a menu list. You can check the menus in the list to show other device information including "Number of Camera", "Number of Alarm Input", "Number of Alarm Output", "Device Number" and "Port".

3.1 Add Device

Click "Add Device" button in the above interface to pop up the following window. The NVMS1000 system will automatically search the online device in the same local area network. You may click "Manually Add" to add third party devices.

Quickly add	Manually a	dd Auto F	leport			
	IP Address 🗸	Edit IP address	Subnet Mask	Protocol	Version	Device Identifier
1	172.16.52.243	۶	255.255.0.0	Standard Device	3.4.2.beta2	00:18:AE:46:B1:40
	172.16.52.242	۶	255.255.0.0	Standard Device	3.4.1	00:18:AE:46:B1:3B
3	172.16.54.80	۶	255.255.0.0	Standard Device	3.4.1.beta1	00:18:AE:40:F1:A6
4	172.16.54.102	۶	255.255.0.0	Standard Device	3.3.2	00:18:AE:3A:A2:28
5	172.16.54.26	۶	255.255.0.0	Standard Device	3.4.1.beta1	00:18:AE:42:B8:D7
6	172.16.54.49	۶	255.255.0.0	Standard Device	3.4.1.beta1	00:18:AE:42:AC:C9
7	172.16.54.48	۶	255.255.0.0	Standard Device	3.4.1.beta1	00:18:AE:42:AC:D2
						`
Select Area	🏫 root		\sim		Add	Cancel

Click "Version", "Device Identifier" or title bar to shown icon to requerce of the device in the list will be changed by clicking to requerce.

3.1.1 Quickly Add

In the above interface, click the "Refresh" button on the top right corner to quickly refresh the online device in the same local area network.

Check the searched devices, select the area on the down left corner and then click "Add" to add the device. If you want to create a new area, please see <u>3.3.1 Area Management</u> for details.

Filter condition

Filter IP Address

• Click on the "IP Address" title bar.

• Check "Filter condition", input the "Start IP address" and "End IP address" and then click "OK" button to save the settings.

The device list will filter the devices according to your settings.

Edit IP Address

Start IP address . . . End IP address . . . OK Cancel

Click to edit the IP address of the device. Refer to the following figure. Input the "IP Address", "Subnet Mask" and "Administrator password" (the password of the device) and then click "OK" button to save the settings.

it device IP		-	-		-	
MAC Address						
IP Address	172	16	53		112	
Subnet Mask	255	255				
Port						
Administrator name						
Administrator password	•••••					
				ОК		Cancel

3.1.2 Manually Add

Click "Manually add" menu to go to the window as shown below.

Quickly add	Manually add	Auto Report						
Device Name	IP/Domain/Serial number			User Name		Test Link	Main Stream	Delete
New Device	0.0.0.0	Standard Device 🗸	6036	admin 🗸	*****			
Select Area	🏫 root					Add	Cancel	

There are three modes available for you to add device ("IP Address", "Domain name" and "Serial number"). You can add the device which supports NAT function through "Serial number".

IP Address : The IP address of the device.

Domain Name : The domain name of the device.

Serial Number : The MAC address of the device. The MAC address is case insensitive.

Quickly add		add A	Auto Report						
Device Name	IP/Domain/Ser	ial number			User Name		Test Link	Main Stream	Delete
New Device			Standard Device 🗸	6036	admin 🗸	*****			
	IP Address								
	Serial Num								

① Input the "Device Name", "IP / Domain / Serial number", "Port", "User Name" and "Password" of the device.

② Select the "Protocol" and the area. Click "Test Link" button to test the connection of the device.

Click in the "Delete" column to delete the device. Check "Main Stream" according to the actual network situation. Checking it or not will affect the record stream of live preview.

③ Click "Add" button to add the device.

3.1.3 Auto Report

Click "Auto Report" menu to go to the window as shown below.

Quickly add	/lanually add	Auto Report	
Device Name			Device Number
New Device			
	Standa	d Device	
Select Area	root		Add Cancel

① Input the device name and then select the device protocol.

• If you want to add DVR, please enter Network \rightarrow Sever tab of the DVR. Check "Enable", input the IP address and port (2009) of NVMS1000 and then set the device number of the DVR.

• If you want to add IP camera, please enter Network Configuration \rightarrow Server Configuration of the IP camera. Check "Do you want IPCamera to connect Server", input the IP address and port of NVMS1000 and then set the device number of the IP camera.

② Input the device number you set in the DVR or IP camera.

③ Select the device area and then click "Add" button to add device.

3.2 Edit Device Information

Select a device in the "Add, Edit or Delete Device" interface and then click "Delete" button to delete the device.

Select a device and then click "Edit" button to go to the interface as shown below.

Edit Device Information				
Please select the item you need to edit.				
Edit Device Name				
Edit Device Address	Camera1 192.168.1.12			
Edit Device Port Number				
Edit Device User Name	admin			
Edit Device Password				
Edit Connection Bandwidth				
Edit Basic Configuration				
Edit Time Configuration				
View Disk Information				
Edit Network Configuration				
Alarm Input Trigger and Schedule Configuration				
Alarm Output Configuration				
Abnormal Alarm Configuration				
User Information Management				
Email Config				
DDNS Config				
Check Online Users				
View or Edit the Information of Other Devices				

Edit Device Name

Click *Edit Device Name* to go to the interface as shown on the right. Set a new device name and then click "OK" button to save the settings.

Edit Device Address

Click *Edit Device Address* to go to the interface as shown on the right. Input the new IP address or domain if you check "Domain". Click "OK" button to save the settings.

Edit Device Port Number

Click *Edit Device Port Number* to go to the interface as shown on the right. Input the new port number and then click "OK" button to save the settings.

Edit Device User Name

Click *Edit Device User Name* to go to the interface as shown on the right. Input the new username and then click "OK" button to save the settings.









Edit Device Password

Click *Edit Device Password* to go to the interface as shown on the right. Set the new password and then click "OK" button to save the settings.

Edit Connection Bandwidth

Click *Edit Connection Bandwidth* to go to the interface as shown on the right. Check "Use the main stream" as required. Checking it or not will affect the record stream of live preview.

Edit Basic Configuration

Click *Edit Basic Configuration* to go to the interface as shown on the right. Set the device name and then click "Save" button to save the settings.

Edit Time Configuration

Click *Edit Time Configuration* to go to the interface as shown on the right. Set the date format, time format and time zone of the device and check "DST" as required. Synchronize the time of the device manually or by NTP server and then click "Save" to save the settings.

Manually: Click "Manual Input" button to pop up a window and then manually input the time in the window. You can also check "Sync Time with PC" to synchronize the time with PC. Click "Save" button to save the settings.

By NTP Server: Check "Sync Time with NTP Server" and then input the NTP server address.

View Device Log

Click *View Device Log* to go to the interface as shown on the right. Select the log type, set the start time and end time and then click "Search" button to search the log. The searched log will be displayed in the list.



Edit the upload bandwidth of the devi	ce "Camera3"	
Edit the upload bandwidth of the device.		
Use the main stream	ок	Cancel

Basic Configuration of Device "Camera3"						
Set the basic information of the device.						
Device Name	60					
Max Online Users	4					
	(Save	Cancel			

Time Configuration of Dev	ice "Camera3"
Configure the date and the time	ie.
Date and Time Setting	gs
Date Format	Year-Month-Day
Time Format	24-Hour
Time Zone	GMT+08 (Beijing, Hong Kong, Taipei, Singapore
Sync Time	with NTP Server Manual Input
NTP Server	time.windows.com
DST Settings ———	
DST	
	Save Cancel

		o <mark>g Info</mark> rn	nation of D	evice "Came				
4	P Vie	ew the log in	formation of de	vice.				
		Log type :	All System Abnormal	n Log Operatio	n Log Playba	k Check Log		
		Start Time	2015-01-30 0	0:00:00 🔲 🔻	End Time 201	5-01-30 23:59:5	9 💷 🕶	Search
	NO.	_	Туре	User Name	_	Time	IP Addres	55
					First Page	Previous	Next	Last Page
								Back

View Disk Information

Click *View Disk Information* to go to the interface as shown on the right. Click "Refresh" button to refresh the disk information.

Edit Network Configuration

Click *Edit Network Configuration* to go to the interface as shown on the right. Set the HTTP port and server port. You can select "Static IP Address" and then input the network parameters manually or select DHCP to obtain the network parameters automatically.

Note: If the port and the IP address are changed here, the device will be offline. You need to modify the port and IP address of the device. See *Edit Device Address* and *Edit Device Port Number* for details.

Disk	Disk Information of Device "New Device1"						
	ID	Туре	Size[GB]	Status	Property	Source	
		SATA	931.51	Normal	Read and Write	Device	
						Refresh	Back

Network Configuration of device "New Device1"					
Configure the network parameters	of the device.				
HTTP Port	80				
Server Port	6036				
Static IP Add	tress DHCP 				
Network Address	192 . 168 . 1 . 21				
Subnet Mask	255 . 255 . 255 . 0				
Gateway	192 . 168 . 1 . 1				
Preferred DNS	192 . 168 . 1 . 1				
Alternate DNS Server	0.0.0.0				
	Save Cancel				

> Alarm Input Trigger and Schedule Configuration

Click *Alarm Input Trigger and Schedule Configuration* to go to the interface as shown on the right. Select a sensor according to the alarm input. Check "Alarm" and then click "Setup" button to set the alarm schedule (please see <u>3.3.2 Camera Management</u> for the detailed schedule setting operations). Select the sensor type and set the holding time.

You can also configure alarm trigger.

Click "Select Alarm Out" button to set the alarm out. Click "Select Camera" to set the camera. Set the big screen alarm camera. Check "Buzzer" and "Email" as required.

If you want to trigger PTZ, you should select the PTZ channel, trigger type and the number of the type. Click "Save" button to save the settings.

Alarm Input and Schedule Co	nfiguration of the Device "New Device1"
Configure the alarm input and sche	edule of the device.
Alarm In	SENSOR 1
	Alarm
Schedule	Setup
Туре	NO
Holding Time(s)	10
Alarm Trigger Configuration -	
Trigger Alarm	Select Alarm Out
Trigger Record	Select Camera
Big Screen Alarm	Null
	Buzzer
	Email
Trig	gger PTZ
Cł	hannel Channel1
	ype No Trigger
N	lumber
	Save Cancel

Alarm Output Configuration \succ

Click Alarm Output Configuration to go to the interface as shown on the right. Select an alarm output and then set the output name and holding time for it. Click "Setup" button to set the schedule of the alarm out. Check "Buzzer" as required and then set the holding time for the buzzer. Click "Save" button to save the settings.

\succ **Abnormal Alarm Configuration**

Click Abnormal Alarm Configuration to go to the interface as shown on the right. Select the alarm type and then check "Buzzer" and "Email" as required. Click "Select Alarm Out" to set the alarm out. Set the disk alarm (the alarm will be triggered if the remaining disk capacity is equal to the alarm capacity you set). Click "Save" button to save the settings.

\succ **User Information Management**

Click User Information Management to go to the interface as shown on the right. Click "Add" button to add a new user.

Select a user in the list. The permissions which the selected user owns are checked on the right side of the list. You can check or uncheck these permissions to change the user permissions. Click "Delete" button to delete the selected user. Click "Change" button to change the user information. The password of all the users can be changed while the username and

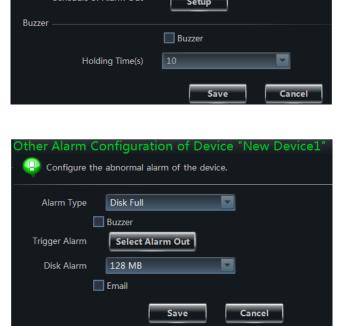
Save Cancel Information of Device "New Device1 Configure the user information of the device Jser Type Binding MAC Addres 🛛 🔲 System Permis Manual Re Playback Back PTZ Contro

Alarm Output Configuration of Device "New Device1 Configure the device's alarm output. -Alarm Output Alarm Out 1 ALARM OUT 1 Output Name -Holding Time(s) Schedule of Alarm Out Setup Buzzer Buzzer -Holding Time(s)

Live Mo Check Log Disk Mana Add Delete Change Save Cancel

user type are changeable for all the users except *admin*. Click "Save" button to save the settings.





Email Configuration

Click *Email Configuration* to go to the interface as shown on the right. Input the SMTP server and SMTP port and then enable the security connection as required. Input the "From Email", username and password. Click "Add" to add a receiver address. Select an address in the list and then click "Change" button to change the address. Click "Delete" to delete the selected receiver address. Click "Save" button to save the settings.

SMTP Server	
SMTP Port	25
Security Connection	no
From Email	
User Name	
Password	
Receiver Info	rmation
Rece	eiver Email Address
Add	Change Delete
Add	
	Save Cancel

> DDNS Configuration

Click *DDNS Configuration* to go to the interface as shown on the right. Check "Enable DDNS" and then select the DDNS protocol type. Take www.meibu.com as an example. You should input the username and password. Click "Save" button to save the settings.

Change the DDNS Configuration of Device "New Device]	
Set the basic information of DDNS.	
Enable DDNS	
Protocol Type www.meibu.com	
User Name	
User Password	
Confirm	
Save	Cancel
Check Online User Information of the Device "New Device1"	

192.168.13.67

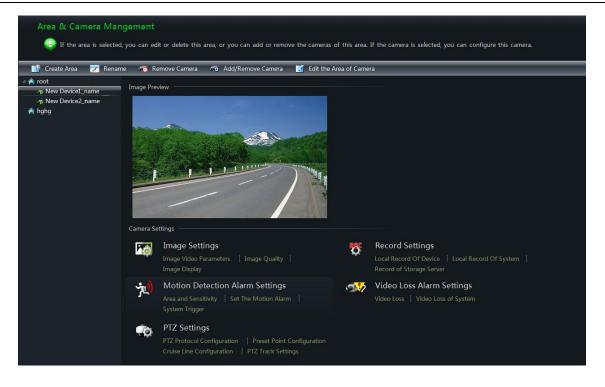
Back

Check Online Users

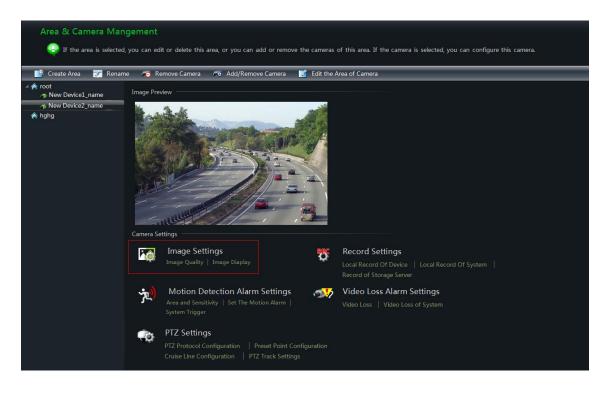
Click *Check Online Users* to go to the interface as shown on the right. All the online users will be displayed in the list.

3.3 Area and Camera Management

Click *Edit Camera Settings* under the *Device* in the control panel to go to the interface as shown below and then select a camera in the interface to show its camera settings.



The camera without some functions will not display the relative setting sheets and links. Refer to the following figure.



3.3.1 Area Management

Click "Create Area" button to create an area. Refer to the figure on the right.

Select an area and then click "Rename" button to change its name. Select an area and then click "Delete Area" button to delete it.

Create Area	ı name.	
Parent Area Area Name		*Limited to 1-60 characters
		OK Cancel

Select an area and then click "Add/Remove Camera" to go to the interface as shown on the right. Check the camera on the left and then click is to add the camera to the area. Check the camera on the right and then click is to remove the camera from the area.

Select a camera and then click "Edit the Area of Camera" to change the area of this camera.

3.3.2 Camera Management

The real-time image will be displayed after selecting a camera. You can set up the parameters of this camera.

Image Settings

Image settings include image display, image video parameters, image quality, video block and ROI configuration.

Click *Image Display* to go to the interface as shown on the right.

Create the camera's name and set up its display position on the OSD including the time stamp.

Click "Copy to" button to apply the settings to the selected channel.

Click *Image video parameters* to go to the interface as shown on the right.

Adjust the brightness, contrast, saturation and chroma of the image. Clicking "Restore Default" will restore the above parameters to factory default settings.

Click *Image Quality* to go to the interface as shown on the right.

Choose the resolution, fps, stream, image and bitrate according to practical situation.

Device S	tream				
Index	Resolution	Fps	Stream	Image	Bit Rate
	2560x1440	15	CBR		6144kbps
	704x480	30	CBR		1024kbps
	704x480	30	CBR		1024kbps
	7042480		CDK	Apply	Save Cancel

Restore Defaults





Click *Video Block* to go to the interface as shown on the right.

Enable video block. Click "Draw" button and then drag the mouse on the image to set the video block area. Click "Delete" button to delete all the video block areas. Click "Save" button to save the settings.

Click *ROI Configuration* to go to the interface as shown on the right.

Enable ROI configuration. Set the level (a greater level indicates the higher definition ROI areas). Click "Draw" button and then drag the mouse on the image to set the ROI area. Click





"Delete" button to delete all the ROI areas. Click "Save" button to save the settings.

Record Settings

You can set the local record of device, local record of system and the record of storage server.

Click *Local Record of Device* to go to the interface as shown on the right.

Choose pre-recording time, duration and record save time. Click "Copy to" button to save the settings to the selected channel.

Record of Device	
🗹 Enable	
Schedule Setup	,
Pre-recording Time (s)	30
Record Duration (s)	30
Record Save Time (d)	Never expiry
Copy to	
	Save Cancel

Click *Local Record of System* to go to the interface as shown on the right.

You can set schedule and record stream.

Record of System ——			
Record Stream	2 704x480 30fps		
Set Schedule			
	Save	C	ancel

How to set schedule?

The schedule setting between local record of device and local record of system is different.

Schedule Setting of Local Record of Device

You should check the "Enable" in the Record of Device interface and then click "Setup" button to pop up the window as shown on the right.

Click M and then move the cursor to select the time. Click **and** then move the cursor to delete the selected time.

Click "Manually" to manually input the time. Click "All" / "reverse" to quickly select the time. Click "Empty" to clear all the time.

Click "System Schedule" to select the system schedule.

Click "OK" button to save the settings.

Schedule Setting of Local Record of System

Click "Set Schedule" button to pop up the window as shown on the right.

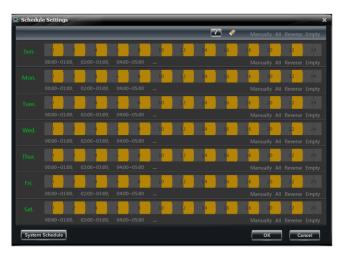
Check "7x24" or click "Create Schedule" button to set schedule.

Schedule Setting of Record of Storage Server

Before setting up the record of storage server, please confirm that the storage server which can be used has been added (you can add the storage server by clicking "View or Edit Storage Server Settings" in the control panel). Choose a storage server and then set up record

schedule and record stream. The schedule setup is the same with the local schedule setup. Click "Save" button to save the settings.

Record of Storage			
Record	Set Schedule		
Record Stream	1 1080P 25fps		
	Save	Cancel	



😍 Create Sc	_	
2 2724	Sun.	2 4 6 8 10 12 14 16 18 20 22 24 00:00-24:00
		0 2 4 6 8 10 12 14 16 18 20 22 24 0000-2440
		0 2 4 6 8 10 12 14 16 18 20 22 2 0000-24:00
		0 2 4 6 8 10 12 14 16 18 20 22 24 00:00-24:00
		0 2 4 6 8 10 12 14 16 18 20 22 2 00:00-24:00
		0 2 4 6 8 10 12 14 16 18 20 22 2 00:00-24:00
		0 2 4 6 8 10 12 14 16 18 20 22 2 00:00-24:00
		OK Cancel

Motion Detection Alarm Settings

Click Area and Sensitivity to go to the interface as shown on the right.

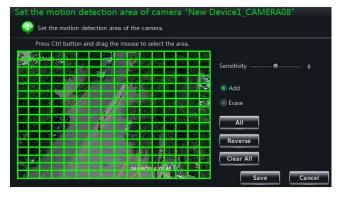
Drag the slide bar to set the sensitivity value. The higher the value is, the more sensitive it is.

Click "Add"/"Erase" and then hold press "Ctrl" and left click mouse to add / delete the area you want.

Click "All"/"Reverse"/"Clear All" button to select area or clear all the area quickly.

Click Set The Motion Alarm to go to the interface as shown on the right. You can set the motion alarm and linkage configuration.

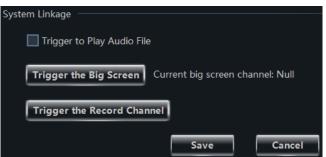
Note: Please refer to the user manual of the device for device linkage configuration.



Inable Alarm
Schedule Setup
Holding Time(S) 5
Buzzer
Trigger Alarm Output
Trigger the Record Channel
Big Screen Channel Null
🔲 Email
Trigger PTZ
Channel Channel1
Type No Trigger
Number
Copy to
Save Cancel
System Linkage
Trigger to Play Audio File
Trigger the Big Screen Current big screen channel: Null

Click System Trigger to go to the interface as shown on the right.

Check "Trigger to Play Audio File". If the motion alarm of a certain channel is triggered, a sound like "beep" will give out.



Click "Trigger the Big Screen" button to select channel. If the motion alarm of the selected channel is triggered, a big picture will pop up on the screen.

Click "Trigger the Record Channel" button to select channel. If the motion alarm of the selected channel is triggered, the channel's record will be opened automatically.

Video Loss Alarm Settings

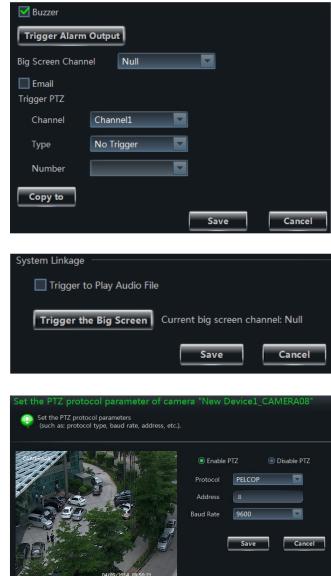
Click *Video Loss* to go to the interface as shown on the right. The steps of configuring video loss are the same with the device settings; please refer to the video loss chapter of device user manual.

Click *Video Loss of System* to go to the interface as shown on the right. You can set the video loss of system.

PTZ Settings

Click *PTZ Protocol Configuration* to go to the interface as shown on the right. You can enable or disable PTZ. Set the protocol, address and baud rate and then click "Save" button to save the settings.

Click *Preset Point Configuration* to go to the interface as shown on the right. Adjust the dome direction, speed, etc by clicking the buttons. Click "Add" to add a new preset point. Choose a preset point in the list and then click "Change Name" to change the name of the preset point. Choose a preset point and then click "Delete" to delete the preset point. Click "Save" to save the settings. 22



	NO.	Preset Point Name	
		PRESET001	
< ()►		PRESET002	
		PRESET003	
	4	PRESET004	
+		PRESET005	
Focus +		PRESET006	
		PRESET007	
- O Zoom +	8	PRESET008	
		PRESET009	
	Add	Change Name	Delete
		Save	Cancel

The definitions of the buttons are as below.

Buttons	Description
	 ▲ to rotate the dome upwards; ▲ to rotate the dome diagonally up-left; ▲ to rotate the dome diagonally up-right; ▲ to rotate the dome downwards; ▲ to rotate the dome diagonally down-left; ▲ to rotate the dome diagonally down-right; ▲ to rotate the dome towards left; ▲ to rotate the dome towards right; ▲ to stop rotating the dome
+	Drag the slider bar to adjust rotation speed of the dome
- S Focus +	Focus button. Click to increase the focal length; click to decrease the focal length
- 🔶 Iris +	Iris button. Click I to increase the iris of the dome; click I to decrease the iris of the dome
- 🔘 Zoom 🕂	Zoom button. Click I to zoom in the camera image; click I to zoom out the camera image
*	Track
Ø	Auto Scan
0	Wiper button
•	Light button

Click *Cruise Line Configuration* to go to the interface as shown on the right. You can add/ change/preview/delete cruise.

CAMERA12 08:23:43	Serial Number	Cruise Line Name	
Text a state			
			_
PTZ Protocol Configuration	Add Ch	ange Preview Dele	te
Preset Point Configuration		Save Cancel	
Cruise Line Configuration			_

Click *PTZ Track Settings* to go to the interface as shown on the right. You can set the PTZ track.

Remove camera

Select a camera in the Area and Camera Management interface and then click "Remove Camera" button to pop up a dialog window. Click "OK" button to remove the camera.

	>/ +
Focus	+
- O Iris	+
Start recording	Back

4 Storage Server Management

NVMS1000 supports storage server management. By using storage server, you can store the images of the IP camera; it will have no effect on record storage if you shut down the storage server.

4.1 Create Storage Server

Click "View or Edit Storage Server Settings" under Record and Playback in the control panel to go to the "Create, Edit or Delete Storage Server" interface as shown on the right.

Before creating a new storage server, you must confirm that the storage server and NVMS1000 are both in the same local area network. Click "Create Storage Server" button to go to the interface as shown on the right. The NVMS1000 will search the available storage server in the same local area network automatically. If no storage server is searched for a long time, please click "Refresh" button. The default IP address, username and password of storage server are as follows.

The default IP address: 192.168.1.200

The default username: admin

The default password: 123456

Please input the default IP address, username and password if you use the storage server for the first time. If you want to change the IP address, username, password and other information of the storage server, please see <u>4.2 Change or Delete the Information of this Storage Server</u> for details.

You can click "Test Connect" to test the connection of the storage server. Click "Add" button to add the storage server.

4.2 Change or Delete the Information of Storage Server

Select one storage server in the "Create, Edit or Delete Storage Server" interface and then click "Delete" to delete it.

Select one storage server in the "Create, Edit or Delete Storage Server" interface and then click "Change" to go to the interface as shown on the right. You can change the server name, IP address, port number and other information of the storage server.





Create New St	orage	Seve		
Please input	the info	rmation	of new stora	age server.
ID Address (Dem	in No.		Port	MAC Address
IP Address/Dom	ain iva	_	Port	MAC Address
Show the add	ded devi	ce		Refresh
Server Name	New D	evice1		*Limited to 1 60 characters
IP Address	192 .	168 .	1 . 200	Domain
Port	6063			*Limited to 1065535
User Name				*Limited to 1-60 characters
Password				Limited to 32 characters
Test Connect				Add Cancel

Change Storage Server Name

Click *Change Storage Server Name* to go to the interface as shown on the right. Input the new server name according to the name rules and then click "OK" to save the settings.

Change Storage Server Address

Click *Change Storage Server Address* to go to the interface as shown on the right. Set the new IP address of the storage server. Please make sure that the IP address of the storage



server and NVMS1000 are in the same local area network. You can also check "Domain" to change the domain of the storage server. Click "OK" to save the settings.

Change Storage Server Port

Click *Change Storage Server Port* to go to the interface as shown on the right. Set the new port and then click "OK" to save the settings.

Change Storage Server Username

Click *Change Storage Server Username* to go to the interface as shown on the right. Set the new username of the storage server and then click "OK" to save the settings.

Change Storage Server Password

Click *Change Storage Server Password* to go to the interface as shown on the right. Set the new password of the storage server and then click "OK" to save the settings.

View Basic Information

Click *Basic Information* to go to the interface as shown on the right. Set the new device name and then click "Save" button to save the settings. You can view the basic information of the storage server in the interface.



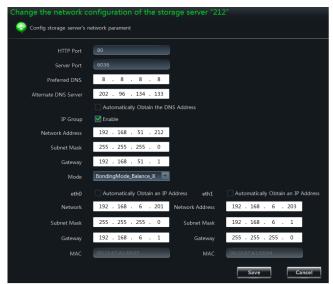


Change the password	l of the storage serv	ver "212"											
Please input new user name.													
New Password		Limited to 32 char	racters										
Confirm Password													
		ок	Cancel										

Look up the basic info	of the storage server	· "212"
Look up storage server's	basic info	
Device Name	N9)
Number of Alarm Input	0)
Number of Alarm Output	0)
Kernal Version	2.6.0	
Hardware Version	1.0)
Software Version	1.0.0Beta13 build140328)
	Save	Cancel

Network Setting

Click *Network Setting* to go to the interface as shown on the right. Set the relative network parameters of the storage server and then click "Save" button to save the settings.



Disk Manager

Click "Disk Manager" to go to the interface as shown below.

) NVMS-1000	C .	ntrol F	anel ^X Pla	yba	ck 🛛	Live Previ	ew	+				Start view sys	
Manager the disk	k int	fo of	the storage	e se	rver '	238"							
🝚 Config storage se	erver'	s disk i	nfo										
Z Disk Manager → Add raid hange or delete raid				•			:			4	5 RAID 5	Property Slot Serial Number	Value
Disk information View disk information wraid information	~			•						8	5 RAID 5	Disk Model	
	Main cabinet			•						12	5 RAID 5		
	et			•						1 6	RAID 5		
										20 20 24	5 RAID 5		
							< 1)>					
	Dis	k status	🗖 Disk normal										
	Rai	d status	🗧 Raid Normal	-	Raid initi	al <mark>–</mark> Raid reb		Raid	expansion	Raid degraded	Raid Disabled		
												Refre	sh Back

Click a disk in the list to shown its relative information on the right. Refer to the following figure.

© NVMS-1000	C .	ntrol P	anel ^X Pl	layba	ck	Live Previe	w	+		1	1		Start view	
Manager the dis				e se		- "238"								
☑ Disk Manager → Add raid nange or delete raid		1	5 RAID 5			5 RAID 5			5 RAID 5			5 RAID 5	Property Slot Serial Number	Value 1 S1DFPAF7
Disk information View disk information													Disk Model	ST1000VX000-1CU1
ew raid information	Main cabinet						• • 1				12			
	abinet	13					• • 1				16			
							• • 1	.9			20			
							2							
							ated ho							
			Disk normal			normal 📕 Disk u itial 📕 Raid rebu			d expansion	Raid d	egrade			

Click "Disk information" on the left of the interface to view all the disks' status information.

NVMS-1000	Control Panel ^X	Playback	Live Preview	+	Start view sijs rieg 🔔 🖬 🗙
Manager the disk		orage server "	238"		
	Plate number	Capacity[GB]	Status	Source	
🖉 Disk Manager	1	931	Normal	Local	
Add raid Change or delete raid		931	Normal	Local	
		931	Normal	Local	
Disk information > View disk information			Normal	Local	
View raid information		931	Normal	Local	
		931	Normal	Local	
	7	931	Normal	Local	

Click "View raid information" to show the raid information on the right.

NVMS-1000	Control Panel ^X	Playback	Live Preview	+			Start <mark>view sys</mark>	
Manager the disk		orage server ".	238"					
🖉 Disk Manager	Name	RAID Level	Status	Stripe Depth	Capacity[GB]	The number of mem		
Add raid Change or delete raid		RAID 5	Initializing	1024KB	21413	24		
Disk information >								
View disk information View raid information								
view raid mormation								

Click "Add raid" button to pop up the following window. Set the raid name, raid level and stripe depth and then click "OK" to save the settings.

RAID N	ame							
RAID Le	evel	RAI	D 5					
Stripe I	Depth	102	4KB					
⊻ 1			2		3		⊻ 4	
5			У 6		⊻ 7		⊻ 8	
9			☑ 10		⊠ 11		⊠ 12	
⊻ 13			⊠ 14		⊠ 15		⊠ 16	
№ 17			1 8		⊻ 19		2 0	
2 1			2 2		2 3		⊻ 24	
				1				

Click "Delete raid" to pop up the following window. Select the RAID name and then click "OK" button to delete the RAID.

Delete raid				×
RAID Name	5			
		ОК	Cancel	

Click "Expansion" to pop up the following window. Select the RAID name, check the idle disk in the list and then click "OK" button to expand the RAID.

RAID N	ame	5										
RAID Level RAID 5												
Stripe (24KB											
	5 RAID 5								5 RAID 5			
	5 RAID 5											
	5 RAID 5			5 RAID 5	11	5 RAID 5		12	5 RAID 5			
	5 RAID 5			5 RAID 5		5 RAID 5			5 RAID 5			
	5 RAID 5			5 RAID 5		5 RAID 5			5 RAID 5			
2 1	Idle disk											
				< 1)>							

Click "Make a dedicated hot spare" to pop up the following window. Select the RAID name, check the idle disk in the list and then click "OK" button to set this disk as a dedicated hot spare. RAID 0 cannot set its dedicated hot spare.

RAID N	5	5									
RAID Level		RA	RAID 5					Tip: RAID-0 can not create a dedicate			
Stripe Depth		102	1024KB								
	RAID 5			RAID 5			RAID 5			RAID 5	
				5 RAID 5			5 RAID 5				
	5 RAID 5			5 RAID 5		11	5 RAID 5		12	5 RAID 5	
							5 RAID 5				
	5 RAID 5			5 RAID 5			5 RAID 5			5 RAID 5	
2 1	Idle disk										
< (1) >											

Click "Make a global hot spare" to pop up the following window. Check the idle disk in the list and then click "OK" button. Click "Yes" in the popup dialog box to set the disk as a global hot spare.

오 Set global h	oot spare disk X								
1	2 3 4								
9	9 Make sure set global hot spare disk?								
13	13 17 Yes No								
Idle dis	k 22 Idle disk 23 Idle disk 24 Idle disk								
	< 1 >								
	OK Cancel								

Click "Make an idle spare" to pop up the following window. Check the hot spare disk in the list and then click "OK" button. Click "Yes" in the popup dialog box to set the disk as an idle disk.



User Manager

Click "User Manager" to go to the interface as shown on the right. You can view all the users of the storage server in the list.

Click a user in the list and then click "Change" button to pop up the window as shown on the right. You can modify the password of the user. Input the new password twice and then click "OK" button to save the settings.

> Time Setting

Click "Time Setting" to go to the interface as shown on the right. Set the date format, time format and time zone of the storage server and check "DST" as required. Synchronize the time of the storage server manually or by NTP server and then click "Save" to save the settings.

The time setting of storage server is the same with that of the device. Please see 3.2 Edit Device Information for details.

🔍 User Informat	tion X
User Name	admin
User Type	Super Admin
Password	
Confirm Password	
	OK Cancel
Time Configuration of I	
Date and Time S	ettings
Date Format	Year-Month-Day
Time Format	24-Hour
Time Zone	GMT+08 (Beijing, Hong Kong, Shanghai,
	Time with NTP Server Manual Input
NTP Serve	r time.windows.com
DST Settings —	
DST	
	Save

lanager the userinfo of the stroage server

User Type Super Admin

Config storage server's userinfo

User Name

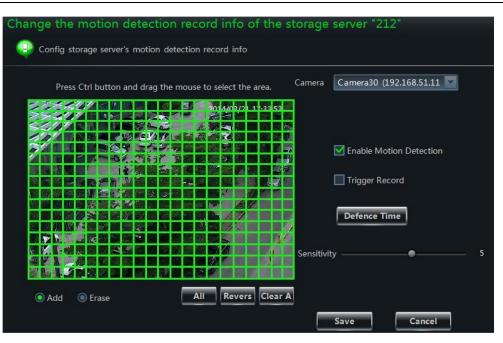
admin

Change

Alarm Record Setting

Click "Alarm Record Setting" to go to the following interface. Select the camera first and then check "Enable Motion Detection". Select "Add", press Ctrl button and then drag the mouse on the image area to select the motion area; Select "Erase", press Ctrl button and then drag the mouse on the selected motion area to clear the motion area. Click "All" to set the whole image area as the motion area; click "Reverse" to swap the selected motion area and the unselected area; click "Clear All" to clear all the selected motion area.

Back



Check "Trigger Record" and then drag the slider to set the sensitivity of the camera. Click "Defence Time" to pop up the "Schedule Setting" window. You can click "System Schedule" button in the window and then select a system schedule in the dropdown menu or set a new schedule for the motion alarm (the settings are similar to that of the local record of device. Please see the schedule setting of the local record of device for details).

Schedule Record Setting

Click "Schedule Record Setting" to go to the interface as shown on the right. Select a camera and click "Set Schedule" to set the record schedule of the camera (the settings are similar to that of the local record of device. Please see the schedule setting of the local record of device for details). Set the record stream and then click "Save" button to save the settings.



Maintain System

Click "Maintain System" to go to the interface as shown on the right.

Click "Reboot" or "Restore Defaults" button and then click "OK" button in the popup dialog box to reboot or restore the device. Click "Import Configuration", "Upgrade" or "Export Configuration" button and then set the file path in the popup window to import/export/upgrade.

Maintain the storage server "New 1"
Reboot
Restore Defaults
Import Configuration
Export Configuration
Upgrade

5 Group and Scheme Setting

5.1 Camera Dwell Group

Click *Group and Scheme Setting* in the control panel to go to the interface as shown below.

() NVMS-1000	-//						Start View	Sys Help	_ 01	×
	Control Panel ^X	Playback	Live Preview	Live Preview *	+					
♠ Control Panel Home										
Create Area Add Device	Create, Ed	it or Delete	Camera Group							
Create Storage Server View or Edit Device Settings	Select the camera group to edit or delete.									
Create Group Dwell Scheme	😴 Create Camera Group 🖉 Edit 🍵 Delete									
Edit or Delete the Group Dwell Scheme	Area	-	Camera Name		_	_	_	_	_	
View or Edit Device Settings										
Area & Camera Management										
Set Account Permission										
View or Edit Storage Server										
Settings										
			User Name: 1	Web F	Port: 80	CPU: 9%	RAM: 57%	2/13/2015 3:14	:22 PM	

5.1.1 Create, Edit or Delete Camera Group

Click "Create Camera Group" in the above interface to create a group.

Select a group in the group list and then click "Delete" button to delete it.

Select a group and then click "Edit" button to go to the interface as shown on the right. You can change the group name and dwell time interval.

5.1.2 Add or Remove the Camera Group

Select a group, click "Edit" button and then click Add or Remove the Camera Group in the interface to pop up the window as shown on the right.

Check cameras on the left and then click to add the selected cameras to the group on the right.

Check cameras on the right and then click **see** to remove them from the group.



 ✓ ♠ 1 ✓ ♠ New Device1_CAMERA02 ♠ New Device1_CAMERA03 ♠ New Device1_CAMERA04 ♠ New Device2_CAM1 	>	CAMERA01
		OK Cancel

5.2 Group Dwell Scheme

Scheme is used for dwelling group by group. Therefore, at least one group should be created. Click *Edit or Delete the Group Dwell Scheme* on the left side of the menu to go to the interface as shown below.

() NVMS-1000	Control Panel ^X F	Playback	Live Preview	Live Preview *	+	Star	t View Sys	Help _		x
♠ Control Panel Home	_									
Add Device Create Storage Server	Create, Edit	or Delete (Group Dwell S	cheme						
Alarm Management Create Camera Group	🝚 Select the	e group dwell so	heme to edit or del	ete.						
Edit or Delete Camera Group	🜵 Create Scheme	🥖 Edit	💼 Delete						_	
	Group Name	Group Num	ber						-	
View or Edit Storage Server										
Settings View or Edit Device Settings										
Area & Camera Management										
Edit or Delete Schedule										
			User Name: 1	Web Port	t: 80 CPU	: 10% RAM:	56% 2/13	/2015 4:19:30 PM		^

5.2.1 Create Scheme

Click "Create Scheme" button to create a scheme. You should set the scheme name, the dwell time interval and the group. Click "OK" button to save the settings. The added scheme will be displayed in the scheme list.

5.2.2 Edit and Delete Group Dwell Scheme

Select a scheme in the scheme list and then click "Delete" button to delete it.

Select a scheme and then click "Edit" button to go to the interface as shown on the right. You can change the name of scheme and the dwell time interval.

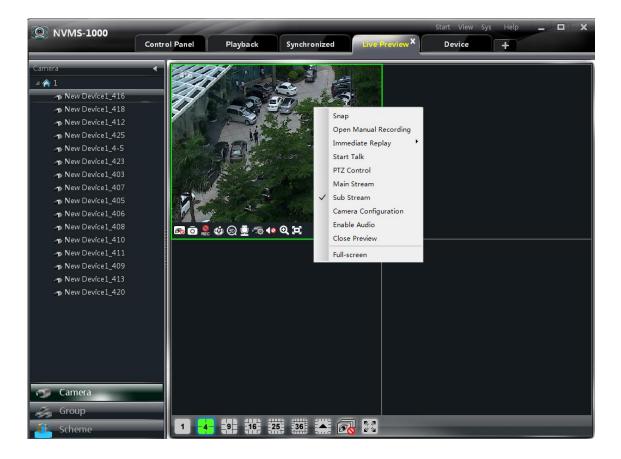
Click *Add or Remove Group of the Scheme* to go to the interface as shown on the right. Check group on the left and then click to add the selected group to the scheme on the right. Check group on the right and then click is to remove the group.



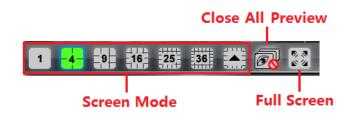


6 Live Preview

Click *Live Preview* in the control panel to go to the interface as shown below.



Buttons description of live preview:



Toolbar on the display window:

Icon	Description	Icon	Description
60	Close image	0	Snap
Nec 8	Start/stop manual recording	٩	PTZ control. Clicking the icon will display the control panel of PTZ
1	3D zoom(only for dome)	Ð	Start/stop talk
۵¢	Camera configuration	2	Open/close audio
€	Zoom in	(i)	Fit to window

Right button functions:

Menu Description		Menu	Description
Snap	Snap picture	Open Manual Recording	Start manual record
Immediate Replay	Click it to set the immediate replay time	Start talk	Start or stop talk
PTZ Control	To display the control panel of PTZ	Stream	Choose stream to view
Camera Configuration	Enter the interface of the area and Camera configuration	Enable Audio	Enable or close audio
Close Preview	Close single channel preview	Full Screen	To display in full screen

6.1 Preview

6.1.1 Monitory Point Preview

To start the live preview, please drag the cameras from the list to the right display window or select a window and then double click the camera to display the live image.

You can drag the image to any window at random.

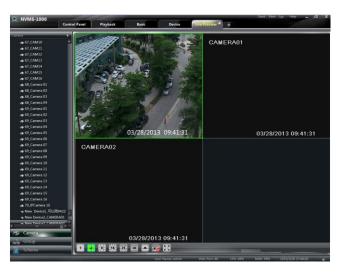
Node unfold rule: After you set the device and area for the first time, you shall obey the following rule to view all tree nodes. When the tree node number is more than 64, the system will unfold the upper node by default.

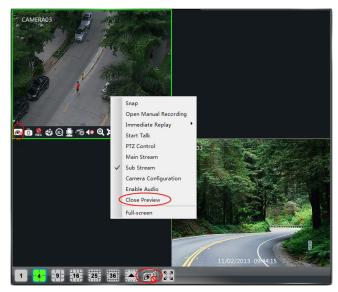
For example: A (There is camera group AC under A; sub-area a under AC; camera group ac under sub-area a). If the node number is more than 64, A will be unfolded and AC will be displayed, but a will not be unfolded and ac will not be displayed. If the node number of A is less than 64, A will be folded and all nodes need to be unfolded manually.

6.1.2 Stop Preview

Close Preview of Channel

Place your mouse on the window to display the menu toolbar and then click \bigcirc to close the preview of this channel.





Close All Preview

Click on the main menu toolbar to close all the windows.

Close Preview by Right-clicking

Choose *Close Preview* by right-clicking the display window to close the preview of this channel. Refer to the figure on the right.

6.2 **Dwell Preview**

After setting up group or scheme (please refer to chapter 4 for creating group), go to the live preview interface and then click "Group" or "Scheme" button on the left bottom of the interface to display the group list or scheme list.

6.2.1 Group Dwell Preview

Start Group Dwell

Go to the live preview interface and then click "Group" button to display the group list. Drag a group to any window (constands for group). The cameras of this group will be played one by one in the window according to the dwell time interval.

Stop Group Dwell

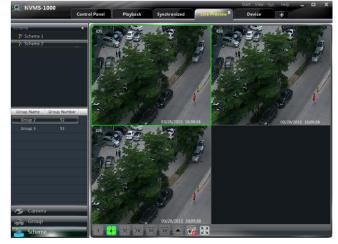
Right click the display window to select "Close Preview" to close the preview of this channel or click on the main menu bar to close all windows for stopping group dwell.

6.2.2 Scheme Dwell Preview

Start Scheme Dwell

Go to the live preview interface and then click "Scheme" button to display the scheme list. Drag a scheme to any window (is icon stands for scheme). The screen mode will be distributed automatically according to the number of the cameras in the group.

Note: To achieve dwell between devices, you should set device as a unit when adding group and then add all the groups into one scheme to dwell.



Q NVMS-1000		/			Start View	Sys Help	x
-	Control Panel	Playback	Synchronized	Live Preview X	Device	+	
Group		States and	ALM STREET	1000			
1 Group1	416						
Group 2			Della Carella				
Croup 3							
		S. 2010 P. 54	and the state				
		For Carlo Carlo Con					
			(3)				
Camera Name Area							
New Device1_416 1			1/29/2013 11:05:08				
New Device1_418 1							
New Device1_412 1							
🛷 Camera							
and the second							
Group			111 11111 JANE /=				
Scheme		9 16	25 36 🔺 🙆	3			

Stop Scheme Dwell

Click kto close all the windows for stopping scheme dwell.

6.3 Preview Control

Full Screen

Click Sutton on the live preview interface or right click on any preview window and then click "Full Screen" to view in full screen.

Right click on the full screen interface and then click "Exit Full Screen" to exit full screen.

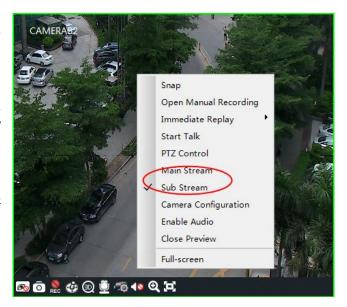
Single Channel Displaying

Double click the selected window to view in single channel mode. Double click the window again to recover the window.

Stream of Live Preview

Right click on the preview window to choose recording stream as shown on the right. Live preview adopts stream self-adaptive rule.

Modify Device Stream: Click *Section* button on the preview window to enter the *Area and Camera Management* interface. Click *Image Quality* under Image Setting to modify device stream. Please refer to <u>section 3.3.2 Image</u> <u>Settings</u> for details.



> Audio

Right click on the preview window to choose "Enable Audio" or click sicon to enable audio of this channel.

Note: Only one audio can be enabled at the same time. If you enable another channel's audio, the enabled audio will be closed automatically.





> Zoom In

Click 🔍 button on the toolbar in the preview window to zoom in the image; click 🔁 to recover the image.

6.4 Snap

6.4.1 Snap

Click **O** button on the toolbar in the selected preview window or right click the window to choose *Snap* to capture the pictures. After snapping pictures, a message prompt box will pop up to remind you the pictures are captured successfully and where the pictures are stored.

Note: Capturing pictures can be realized only in live preview or playback.

6.4.2 Snap Number

Click Set Snap Default Number under Basic in the control panel to set the snap number.

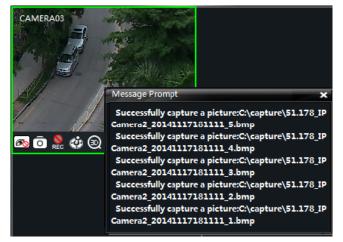
6.4.3 Record and Snap Path

Click *Basic* in the control panel to go to the interface and then click *Partition and Path* to select a folder to save the record files. Click *Set the Default Path of Snap* under Partition and Path to set up the path to save the snap files.

6.5 Multi-screen Preview

Click **b**utton in any interface to plus a tab of live preview. Drag any tab of live preview or right click the tab of live preview to select "Float" to pop up an independent live preview interface as shown below. Multi-screen preview can be realized by dragging the independent interface to other screen (graphics card should support multi-screen output at the same time).





Click button in the live preview interface and then choose "Tab view" to embed this tab in the main interface.

Note: 1. 20 live preview tabs can be added.

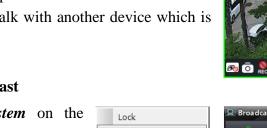
2. Live preview interface can be displayed on multiple screens.

6.6 Talk and Broadcast

6.6.1 Talk

Click window or right click to pop up a menu bar. Choose "Start Talk" to enable bidirectional audio.

Note: Since NVMS1000 only allow opening one device's talk at the same time, the system will stop talk with the current device for enabling new talk with another device which is launching talk.



Stroadcast	x
Broadcast to the Device	Add Device X
Please add or remove broadcas	All Device
Add Broadcast Device 🚔 Remove Broadcast Device Name Type	K 🗹 🛻 New Device2
	OK Cancel

TR 40 Q

6.6.2 Broadcast

Click *System* on the menu bar of the software at the upper right and then choose *Broadcast* to go to the interface as shown on the right.

Broadcast Switch User Change Password Basic Export Configuration Import Configuration

Click "Add Broadcast Device" button to pop up a window and then check the devices

you want to broadcast. Click "OK" button to save the setting.

Click "Start Broadcasting" to start broadcasting.

6.7 PTZ Control

6.7.1 Parameter Configuration of PTZ

Please confirm the parameter of PTZ has been configured correctly before operating PTZ. Click **w** button in preview window or *Edit Camera Setting* under *Device* to go to the interface. Click *PTZ Setting* to enable PTZ and set up protocol, baud rate and address of PTZ.

Note: The protocol, baud rate and address of PTZ here must be consistent with the PTZ decoder.

\bigtriangledown	
	Save as Camera Group
	Save View
	Tab View
	1024 × 768

Snap

Open Manual Recording

Immediate Replay

PTZ Control Main Stream

Sub Stream Camera Configuration

Enable Audio

Close Preview

Full-screen

6.7.2 PTZ control

Return to the live preview interface after configuring parameter of PTZ. Select the channel and then click **W** or right click the preview window and then choose *PTZ Control* to open the control panel of PTZ.

• Click the direction buttons to control its rotational direction; drag the slider to control its speed.

• Click and buttons to adjust focus, iris and zoom.

• Select a preset point and then click 🔯 to operate this preset point or double click the preset point to operate it.

• Click "Cruise" button to list the cruises. Select a cruise and click button to cruise; click button to stop cruising. PTZ can also support track, auto scan, wiper and light function.



3D zoom

In the live preview interface, select a preview window of a dome and then click 20 to enable 3D zoom.

Enable 3D zoom and then drag the mouse from left to right in the preview window to zoom in the selected image area; drag the mouse from right to left to zoom out the image area. Click (1) to disable 3D zoom.

7 Record Management

NVMS1000 supports manual recording, schedule recording, motion detection recording and sensor alarm recording. This chapter will introduce the above four record types respectively.

7.1 Manual Recording

Select a channel and then click is button or right click to choose "Open Manual Recording" to start recording. Click is button or right click to choose "Close the Manual Recording" to stop recording.

Note: If a channel is recording, closing preview will give rise to stopping it.

7.2 Schedule Recording

Click *Edit Camera Settings* under Device in the control panel to go to the interface as shown on the right.



Select a camera and then click *Local Record of Device* to go to the interface as shown on the right.

Enable Schedule Record and set schedule and pre-recording time, record duration, etc.

Enable Schedule Record
Set Schedule
Enable Record Audio
Pre-recording Time (s) 30
Record Duration (s) 30
Record Save Time (d) Never expiry
Copy to
Save Cancel
Record of System
Record Stream 2 CIF 30fps
Set Schedule
Save Cancel

Click *Local Record of System* to go to the interface as shown on the right. You can choose record stream and set record schedule. Please refer to <u>section 3.2.2</u> for details.

7.3 Motion Detection Recording

Click *Edit Camera Settings* under Device in the control panel to go to the interface as shown on the right.

Select a camera and then click *Set Motion Alarm* under Motion Detection Alarm Settings to go to the interface as shown on the right. Enable Alarm of device and set the relevant trigger.

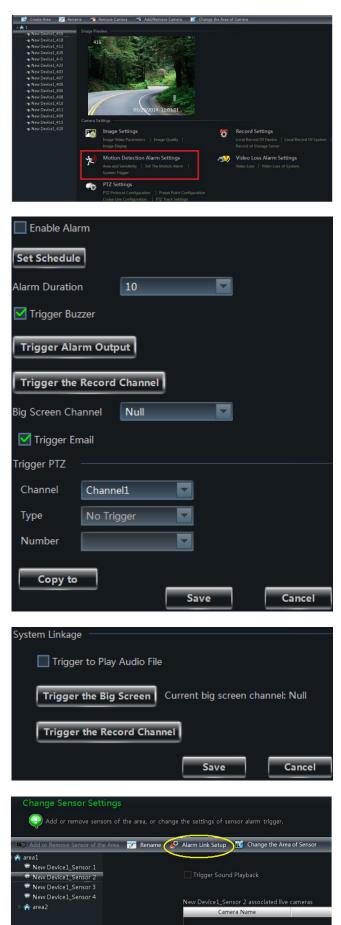
Click *System Trigger* under Motion Detection Alarm Settings to go to the interface as shown on the right.

Click "Trigger the Record Channel" to select channel. The selected channel whose motion detection alarm is triggered will be recorded automatically.

7.4 Sensor Alarm Recording

Click *Edit Camera Settings* under Device in the control panel to go to the interface.

Select a sensor and then click "Alarm Link Setup" as shown on the right.



Click "Add Associated Record Camera" to choose associated record cameras. When the sensor alarm is triggered, the selected cameras will be recorded automatically.

_	Trigger Sound Playback eview Camera Settings	
- issociated -	Add Associated Preview Camera	Nemove Associated Preview Camera
	Camera Name	Area
Associated Re	ecord Camera Settings	
	, Add Associated Record Camera	🙈 Remove Associated Record Camera
	Camera Name	Area

7.5 Storage Server Recording

Click *Edit Camera Settings* under Device in the control panel to go to Area & Camera Management interface as shown in <u>Section 7.2</u>. Select a camera and then click *Record of Storage Server* under Record Settings to go to the interface as shown below.

Set video recording configuration of the camera "New Device2_name" for storage server							
Set video recording configuration of camera (Such as : storage server code stream and schedule etc.)							
	cord of Storage —						
	cord of otorage						
	Storage Server						
V. Jant bet	Record	Set Schedule					
N I GARA	Record Stream	1 1080P 25fps					
04/09/2014 15:18:53							
		Save					
Image Display		Cancel					

Select the storage server and then set up the record schedule. Please refer to <u>section 3.3.2</u> for details. Set the record stream and then click "Save" button to save the settings.

7.6 Set Record Partition

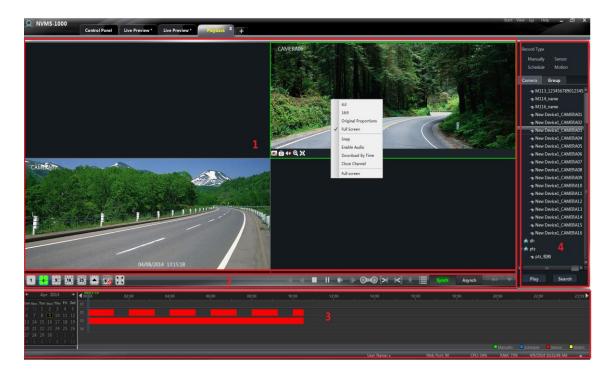
As the new video data getting more and more till it takes up all the partition space, to write data circularly, the new data will overwrite the old data. If you do not want the old data to be overwritten, you should change the record partition of the new data. Click *Set Record Partition* under Playback in the control panel to go to the interface as shown below. Choose a partition for storing record.

of the System	n Record stem record. The available space of the	partition must be more than 2GB.
Partition Symbol	Partition Size	Remaining Space
	37.6G	24.9G
	58.6G	44.2G
	58.6G	30.9G
	78.1G	68.7G
		OK Cancel

8 Playback Management

Click *Playback* in the control panel to go to the interface. You can play back the local stored record files.

Record playback interface has two types: synchronous and asynchronous. Here we take the synchronous as an example.



Area Descriptions:

Area	Area Description		Description
1	Playback Area	2	Toolbar
3	Record time Area	4	Resources Area, Time search or type search Area

Toolbar on Playback Window:

Icon	Description	Icon	Description
60	Close playback	0	Snap
10	Open/close audio	đ	Zoom in
Ξ	Fit to window		

Buttons Description of Area 2:

Icon	Description
	Screen mode. 1,4,9,16,25 channels are optional. You can get more screen mode by clicking .
	Close playback of all channels
5 S S	Full screen
	Retreat (Not support right now)
•	Play backwards (Not support right now)
	Stop
11	Pause
	Playback speed bar
	Playback by single frame. When playback, click u button firstly and then click this button to play frame by frame.
	Forward 30s or backward 30s
\geq	Backup the start time
~	Backup the end time
	Download
	Event list. Click this button to pop up the event list
Synch Asynch	Record playback model. Synchronous and asynchronous
≜ € ▼	Playback source setup

Right button functions:

Menu	Description	Menu	Description	
4:3	4:3 proportion	16:9	16:9 proportion	
Original Proportions	Recover to the original proportion	Full Screen	Full screen mode	
Snap	Snap picture	Enable Audio	Enable or close audio	
Download By Time	To download record by time search	Close Channel	Close single channel preview	
Full-Screen	To display in full screen			

8.1 Playback

Set record date, record type and the record playback source in the playback interface.

The way to set record playback source: click \square in \square on the toolbar of record playback interface; choose the record playback source in the drop-down menu (stands for local playback; stands for remote playback; stands for all playback). Drag the camera on the right side to playback window for playing. You can also select a camera and then click "Search" button to search the record file. Click \square button or "Play" button to play back the record.

Playback record type includes manual recording, motion detection recording, schedule recording and sensor recording.

In the timeline, green bar stands for manual recording data; yellow bar stands for motion recording data; blue bar stands for schedule recording data; red bar stands for sensor record data.



You can zoom in the time scale by clicking and network of the lower right corner, zoom out the time scale by clicking and recover the time scale to 24 hours by clicking and. When the time scale is zoomed in, you can drag the timeline to see the time spots. By pressing the Ctrl key and scrolling up or down the mouse you can also zoom in or zoom out the time scale.

8.1.1 Playback Synchronously

Synchronous Playback: in a certain time, all channels play back its record at the same time spot together; if one channel has no record data at this time spot, this channel will be waiting.

Click Synch on the toolbar in the playback interface to go to the synchronous playback interface. You can play the record according to the ways introduced in <u>Section 8.1</u>. In synchronous mode, one camera can only have one play window. You can view all cameras' record information at the same time. When playing record file in synchronous mode or asynchronous mode, clicking synch or <u>Asynch</u> will be useless unless you close all the playback windows.

8.1.2 Playback Asynchronously

Asynchronous Playback: when playing some channels' record at the same time, each channel is independent from the others and each channel's playback time can be different.

Click Asynch to go to the asynchronous playback interface as shown below. You can play the record according to the ways introduced in <u>Section 8.1</u>.



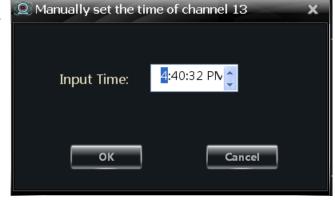
Note:

Asynchronous mode: if remote playback or all playback source is selected, due to the remote channel number restriction of the device, one device can only play back up to 4 channels' record at the same time generally.

Synchronous mode: if remote playback or all playback source is selected, it has no restriction in the playback channel number of one device at the same time. For example, a 16 channels' DVR can play back16 channels' record at the same time.

8.1.3 Playback by Setting Time

Right click the color bar on the time scale to pop up the *Play time precise positioning of the channel X* box. Click the box to pop up a window as shown on the right. Input time manually or click \checkmark/\checkmark button to set time. The channel record will be played from the time you set.



8.1.4 Playback by Searching Event

Click 📕 button to display the event list. Double click an event to play this event record.

Note: By clicking the timeline, you can choose a more accurate playback time. You may also click \square and then select the speed in the popup bar $\boxed{1/22}$ $\boxed{1/2}$ $\boxed{1/2}$

8.1.5 Playback by Record Player

If your system has installed the previous version of NVMS1000 and you need to install the latest version, a prompt which telling you that you need to back up the video data of the previous version will show if the previous version has not been uninstalled before you install the new version.

After successfully backing up, you should uninstall the previous version manually and then install the new version. The shortcuts of NVMS1000 and the Record Player will show on the PC desktop if you successfully installed the new version. The Record Player is used to play the record of v2.1.5 version and it is useful for v2.1.5 only.

If you uninstall the previous version before you back up the record data, the Record Player will not show after you install the new version of NVMS1000.

8.2 Snap When Playback

Click o button on the playback window to capture pictures. A message prompt will pop up after snapping.

8.3 Clip and Backup Record

8.3.1 Clip and Backup Record

When playing back record file, click button to set the start time; click button to set the end time. Click button to download the video files within the configured time.

Note: The default path is C:\backup\.

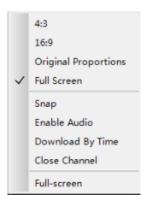
8.3.2 Backup Path Configuration

Click *Basic* in the control panel to go to the interface and then click *Path of Backup File* to set the backup path as shown on the right.

Backup Path Setting	JS Il be saved in the designated directory.	
Backup	Cîbackup\	Browse
		OK Cancel

8.4 Download Record By Time Search

Right click the playback window in the playback interface to pop up a drop-down list as shown on the right.



Click *Download By Time* to pop up a window as shown below. Select record channel, start time and end time, check event type and then click "Record Search" button to search record. If the record is searched, click "Download" button to pop up the backup window as shown above. AVI and DAT backup formats are available (the DAT format is the private format of DVR and the backup files of this format should be played by the player of the DVR). Click "Browse" button to set path. Click "OK" button to back up record.

) NVMS-1000	Control Panel Playback ×	Synchronized	Start View Device Live Prev	
7	Download record by tim	ie			×
	 New Device1_name New Device2_9411- New Device3_1CH_r 	Start Time 2013-03-20 00:0	D:00 ▼ End Time	2013-03-20 23:59:59	
	New Device3_2CH_c New Device3_2CH_c New Device3_DEVIC New Device3_DEVIC	Record Search Download	1		
		 00:00 02:00	08:00 10:00 12:00 1 	4:00 16:00 18:00 20:0 11111111111111111111111111111111111	0 22:00 00:00 ▶ →+ +→
		Q Backup			×
[File format AVI Target path C:\backup	DAT	Browse	
-			K	Cancel	
	 ↓ ↓ ↓ ↓ 				
	Q Record Search				
		User Name: 1	СРІ	U: 61% RAM: 31%	3/20/2013 2:24:25 PM

8.5 Download Record by Event Search

Click 🔲 button to show event information list. Choose an event and then right click it to download this event record.

8.6 View the Progress of Downloading

Move the mouse to the toolbar at the bottom of the interface for download progress viewing. Refer to the figure as shown below. You can also manually stop downloading.

¥ Sto	p Download			
🔲 Serial N	Start Time	End Time	Had Downloaded	Had TakeTime
1	3/29/2013 12:00:00 AM	3/29/2013 11:59:59 PM	68.71%	00:00:04
The number of	backup: 1		User Name: 1	

A popup window will show if you exit the software when a backup task is going. Refer to the figure on the right.



9 Alarm Management

9.1 Sensor Alarm

Click Alarm Management in the control panel to go to the interface as shown below.

() NVMS-1000					Start View	Sys Help 🗕 🗖	x
	Control Panel ^X Live Preview	Playback +					
🕈 Control Panel Home							
Create Area Edit E-map	Edit Sensor Settings	ors of the area, or edit the set	tings of sensor alarm trigger.				
	ille Add or Remove the Senso ▲ ♠ root	or of Are 🍸 Edit Name 🧃	오 Set the Alarm Trigger 🛛 📆 Edi	it the Area of Sensor	_		
	 New Device3_Sensor1 New Device3_Sensor2 New Device3_Sensor3 		Trigger Sound Playback				
	New Device3_Sensor4		New Device3_Sensor1 associa	ated live cameras			
	New Device3_Sensor5 New Device3_Sensor6		Camera Name	Area			
	New Device3_Sensor7						
			New Device3_Sensor1 associa	ated record cameras			
			Camera Name	Area			
Edit or Delete Camera Group View or Edit Device Settings							
Area & Camera Management							
			User Name: 1 We	b Port: 80 CPU: 8%	RAM: 56%	2/28/2015 4:51:39 PM	^

> Add or Remove the Sensor of Area

Choose an area in the above interface and then click "Add or Remove the Sensor of Area" button to go to the interface as shown on the right.

Check the sensor under the area on the right and then click sensor.

Check the sensor on the left and then click button to add the sensor.

Rename or Change Area

Choose a sensor and then click "Edit Name" button to change its name. Click "Edit the Area of Sensor" button to change the area of sensor.

Alarm Link Setup

Choose a sensor and then click "Set the Alarm Trigger" button to go to the interface as shown on the right.



	ger Information of Sensor	"New Device2_Sensor 1"	
You can set the tri	igger sound play, add or remove the	associated preview camera and record came	
	🗹 Trigger Sound Playback		
Associate	ed Preview Camera Settings		
	😹 Add Associated Preview Camera	👼 Remove Associated Preview Camera	
	Camera Name	Area	
	and Durand County County		
Associati	ed Record Camera Settings		
	Add Associated Record Camera	🙈 Remove Associated Record Camera	
	Camera Name	Area	
		Save Cancel	

If checking *Trigger Sound Playback*, there will be a sound like "beep" when sensor alarm is triggered.

♦ Add Associated Preview Camera

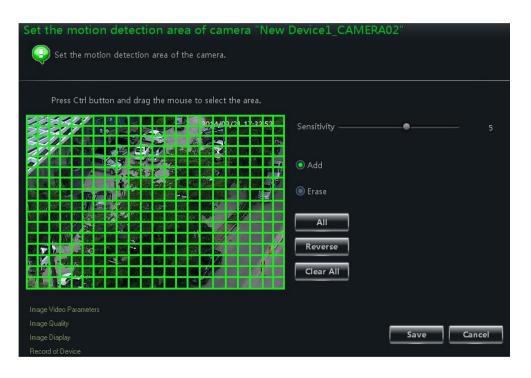
Click *Add Associated Preview Camera* to pop up a window. Check cameras and then click "OK" button to save the setting. When sensor alarm is triggered, the alarm preview and e-map preview will pop up automatically. Select the added camera and then click *Remove Associated Preview Camera* to remove the camera.

♦ Add Associated Record Camera

Click *Add Associated Record Camera* to go to the interface. Check the associated cameras and then click "OK" button to save the setting. When the sensor alarm is triggered, the selected channels will be recorded automatically. Select the added camera and then click *Remove Associated Record Camera* to remove the camera

9.2 Motion Detection Alarm

Click *Edit Camera Settings* under Device in the control panel. Select a camera and then click *Area and Sensitivity* to go to the interface as shown below. You can adjust the detection sensitivity and set up the motion area.



Click *Set the Motion Alarm* to go to the interface as shown on the right.

📃 Enable Alar	m
Set Schedule	ם
Alarm Duration	10
Trigger Buz	zer
Trigger Alar	m Output
Trigger the	Record Channel
Big Screen Cha	nnel Null
🗹 Trigger En	nail
Trigger PTZ	
Channel	Channel1
Туре	No Trigger
Number	
Copy to	Save Cancel

System Linkage

Trigger to Play Audio File

Trigger the Record Channel

Click *System Trigger* to go to the interface as shown on the right.

Note: Please refer to <u>section 3.3.2</u> for details.

9.3 Video Loss Alarm

Click *Edit Camera Settings* under Device in the control panel. Select a camera and then click *Video Loss* to go to the interface as shown on the right. The video loss configuration steps are the same with the device setting. Please refer to the video loss chapter of the device user manual.

Trigger B	uzzer		
Trigger Al	arm Output		
Big Screen C	hannel Null		
Trigger Er	mail		
Trigger PTZ			
Channel	Channel1		
Туре	No Trigger		
Number		-	
Copy to			
	Save		Cancel

Trigger the Big Screen Current big screen channel: Null

Save

Cancel

Select a camera and then click *Video Loss of System* to go to the interface as shown on the right. Please refer to <u>section 3.3.2</u> for details.

System Linkage	
-)g-	
Trigger to Play Audio File	
Trigger the Big Sorgent big screen channel: Null	
Save	
Save	

9.4 Alarm Preview

The alarm preview interface will automatically pop up if the relevant alarm page and alarm preview have been configured already.

9.4.1 Alarm Preview Configuration

Motion Detection Alarm

Click *Edit Camera Settings* under *Device* in the control panel to go to the interface. Select a camera and then click *System trigger* under Motion Detection Alarm Settings to go to the interface. Click "Trigger the Big Screen" button under system linkage to select channel.

♦ Video Loss Alarm

Click *Video Loss of System* to go to the interface and then click "Trigger the Big Screen" button under System Linkage to select channel.

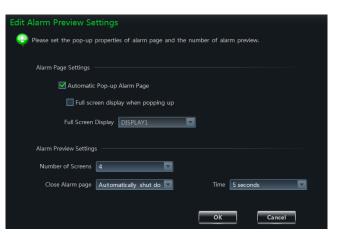
♦ Sensor Alarm

Click *Alarm Management* in the control panel to go to the interface and then click "Set the Alarm Trigger" button to add the associated preview cameras.

Click *Edit Alarm Preview Settings* under Live Preview to go to the interface as shown on the right.

Alarm preview will pop up automatically when alarm is triggered if checking "Automatic Pop-up Alarm Page".

Alarm preview will pop up automatically in full screen when alarm is triggered if checking "Full screen display when popping up". Choose a display monitor in the "Full

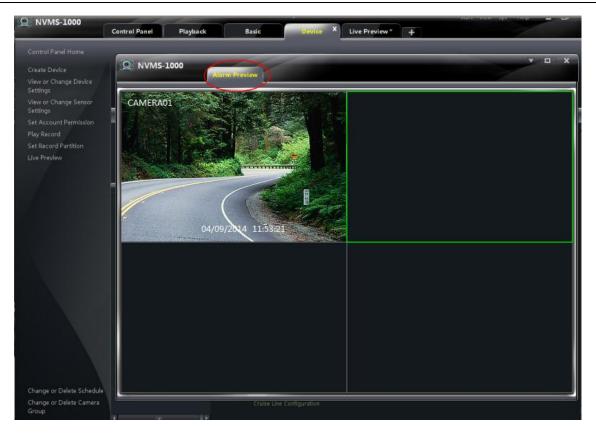


Screen Display" drop-down menu. The alarm image will display on the designated monitor when alarm is triggered.

Set the number of screens. You can choose to close the alarm page automatically or manually. You can set the time if auto mode is selected.

9.4.2 Alarm Preview

After configuring the alarm, the alarm preview will automatically pop up if the alarm of the selected channel is triggered. The default pop-up window of the system is an independent interface. Please refer to the figure as shown below.



Click we button on the upper right corner of the sub interface and then select *Tab View* to embed the sub interface in the main interface.

\bigtriangledown	
	Tab View
	1024 × 768

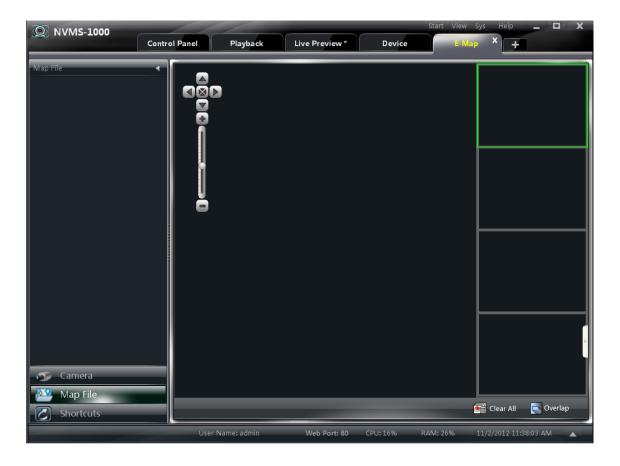
9.4.3 Alarm Information

You can unfold the alarm information list at the bottom of the NVMS1000 interface. Refer to the below picture. You can view the alarm time, alarm source, status and processing status in the alarm information list. These alarm information can be deleted. You can play the record of motion alarm.

Clear List	Motion Alarm 🗹 Sensor Alarm 🗹	Video Loss Alarm			Unproce	ssed alarm count:	66
Alarm Time	Alarm Source	Status	Play Record	Delete	Processing stat		~
8/4/2015 5:52:02 PM			\odot	Ū			
8/4/2015 5:33:30 PM			۲	Ī			
8/4/2015 5:18:17 PM			۲	Ū			
8/4/2015 5:11:34 PM			\odot	Ī			
	() User Name: ad	dmin ۱	Web Port: 81	CPU: 14%	RAM: 64%	8/4/2015 5:59:36 PM	▼

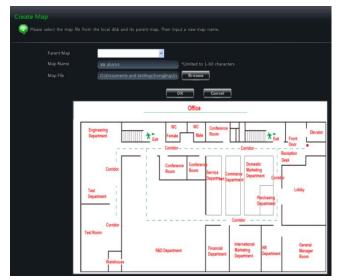
10 E-Map

Click **E-Map** in the control panel to go to the interface as shown below.



10.1 Create map

Click "Shortcuts" button on the left side of the E-Map interface to show the shortcut menu. Click *Create Map File* to go to the interface as shown on the right. Import a map and set a name for it.



10.2 Modify or Delete Map, Hotspot and Hotzone

In the E-Map interface, click *Edit E-map* on the left side to go to the interface as shown below.

NVMS-1000 Control	Panel Playback	Live Preview *	Start Device	View Sys Help	_ 0 X
Shortcuts Control Panel Home Create Map File		Office		_	
	gineering partment Comidor	WC WC Female Make Conference Conference Room		Domestic Marketing Department Perchasting Department	Elevator Door ception wak
Monitoring Settings of E-map Monitoring with E-map Camera 2014 Map File	Test Room Warehouse	R&D Department	Financial Mark Department Depa	rtment Department	General Manager Room
Shortcuts	Add E-map P Add Ho	ot-zone Add Hot-spot			:51:45 AM

10.2.1 Change or Delete Map

In the above interface, click *Map File* to show the map files on the left side. Select a map and then click "Rename" to set a new name for it.

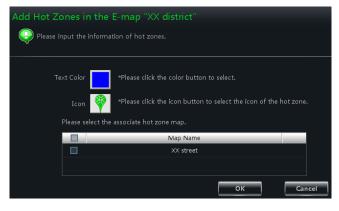
10.2.2 Add, Change and Delete Hotzone

Add Hotzone

Click *Map File*, select a map and then click "Add Hot-zone" to go to the interface as shown on the right.

- (1) Check a map related to the hotzone.
- Click to select the text color displaying under the hotzone icon.
- (3) Click \checkmark to select icons for the hotzone.

After finishing adding the hotzone, double click the hotzone icon to go to the map related to the hotzone.



Modify and Delete Hotzone

Right click a hotzone on the map and then click *Modify Hot Zone* or *Delete the Hot Zone* to change font color, icon or name or delete it.

10.2.3 Add, Change and Delete Hotspot

In the E-Map interface, select a map and then click "Add Hot-spot" to go to the interface as shown on the right.

- (1) Check the associated cameras and sensors.
- Click to select the text color displaying under the hotspot icon.
- (3) Click \checkmark to select an icon for the hotspot.
- (4) Set a name for the hotspot.

There is another way to add hotspot.

Select a map and then double click the camera or drag the camera to the map for adding hotspot.

Note: The hotzones or hotspots will focus

on the map in the same position after being added. You should drag them to the corresponding positions on the map. Click "Save" to save the settings.

10.3 E-map Monitoring Settings

In the E-Map interface, click *Monitoring Settings of E-map* on the left side to go to the interface as shown on the right.

Check "Automatic pop-up alarm preview window" and then click "OK" button to save the setting. If the configured hot spots raise the alarm, the preview image will pop up automatically

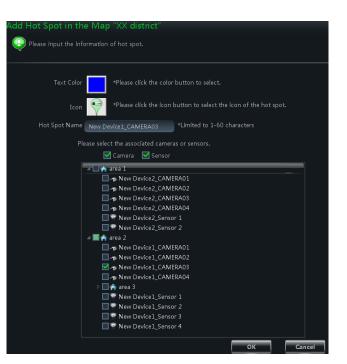


10.4 E-map Live Preview

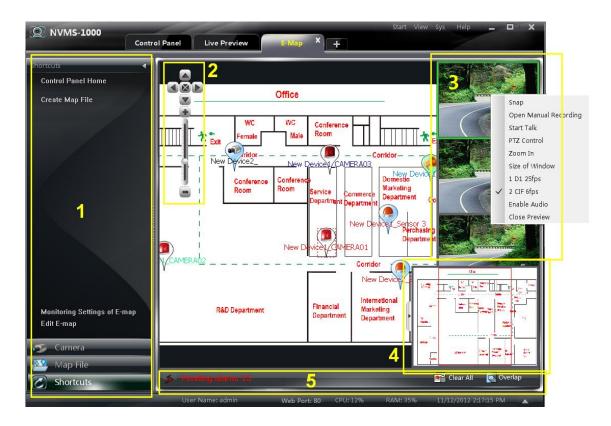
In the E-Map interface, click *Monitoring with E-map* on the left side to go to the interface.

Note: If the item "Edit E-map" appears on the bottom of the menu bar in the E-Map interface, the current interface is monitoring with E-map interface. Double click a hotspot to go to its map.

Gen Modify Hot Zone Delete the Hot Zone



The icon of the hotspot will become a flashing light if this hotspot raises the alarm. What's more, there will be preview windows on the right side if you had checked "Automatic pop-up alarm preview window". Click the alarm preview image to go to the map whose hotspot raises the alarm.



Area Description:

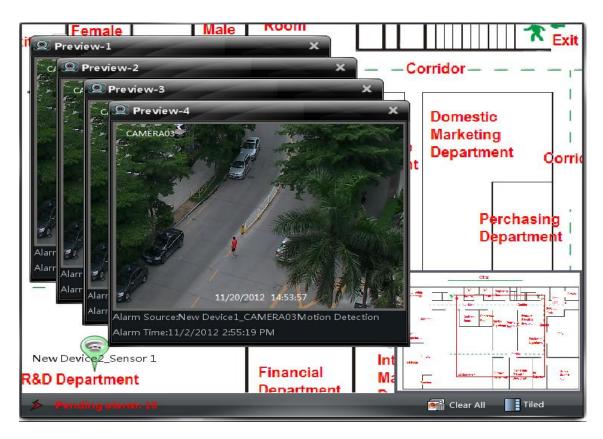
Area	Description
1	Menu bar
2	Zoom in/out the map
3	Alarm preview
4	Overall display of map(suppressible)
5	Alarm message prompts

Right Click on the Alarm Preview Window:

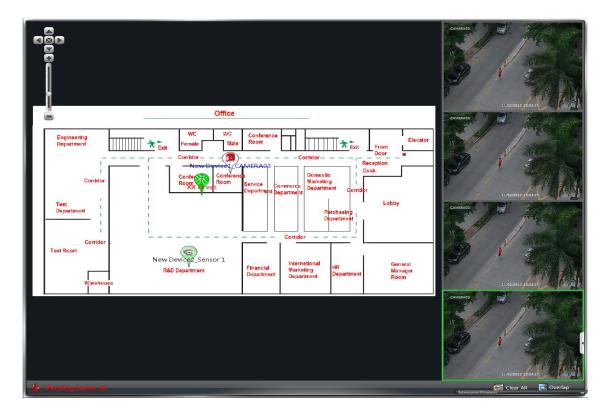
Item	Description	Item	Description	
Snap	Picture capture	Open Manual Recording	Start manual record	
Start Talk	Start talk	PTZ Control	Click to display PTZ control panel	
Zoom In	Zoom in the image	Size of Window	Recover the image size	
Stream	Choose stream to view	Enable Audio	Enable audio	
Close Preview	Stop preview of single channel			

Click "Clear All" to clear all the alarms.

Click "Overlap" to make the alarm preview windows to overlap together. You can drag each window to view respectively.



Click "Tiled" button to tile the alarm preview windows on the right side.



Right click on the map to pop up a menu bar. Click "Full Screen" to view the image in full screen. Right click on the map and then click "Exit Full Screen" to exit.

11 Local Log

Click *Local Log* in the control panel to go to the interface as shown below.

NVMS-1000	trol Panel	Playl	back	E-M	ap	Local Log	× +			Start View Sys	Help _	
Main Type : All Ope	ration Log	System Log	g Alarm Lo	og							_	
Sub Type : All Motio Live Preview		Sensor A Configuratio		ideo Sheli Paramete		Video Loss Ala ation Log Se			/Logout		Log Ma Expo	aintenance rt
Start Time 2015-03-02	00:00:00			End Tin	ne 201	5-03-02 23:59:	59 🔲 🔻				Inquir	e
🗹 🏠 root	All	Reverse	Clear All	Index	Main Type	Sub Type	Time	Content	User/Server Na	Node	Name	-
🗹 🧄 New Device3_name	V 🕹 1				Operation	L Log Search	2015-03-02 11:46:07	Search log				
					Operation	L System Conf	2015-03-02 11:15:28	E-map configuration sav				
					Operation	L System Conf	2015-03-02 10:41:09	E-map configuration sav				
					Operation	L System Conf	2015-03-02 10:40:52	E-map configuration sav				
					Operation	L System Conf	2015-03-02 10:33:49	E-map configuration sav				
					Operation	L System Conf	2015-03-02 10:30:46	E-map configuration sav				
					Operation	L System Conf	2015-03-02 10:29:45	E-map configuration sav				
					System Log	g Login/Logou	2015-03-02 09:55:52	Successfully login				
								Current page:1/1, Al items	8 First Page	Previous	Next	Last Pa
						User Name		Web Port: 80 C	PU: 3% RA	M: 59% 3/2/	2015 11:48:52 A	M

11.1 Search log

Select main type and sub type, set the start time and end time and then click "Inquire" button to search the relevant log information. Click "First Page", "Previous", "Next" and "Last Page" to view the information on different pages.

For example, if you want to view the online/offline information of storage server, you should select *Device online/offline* under Sub Type in the above interface. Click "Inquire" to view the online/offline information of storage server.

NVMS-1000	ntrol Panel Playbac	c E-Map	Local Log × +			Start View Sys	Help _ 🗆 X
Main Toma							
Sub Type : All Mot	eration Log System Log ion Detection Sensor Alarn ew System Configuration			ayback PTZ Control Device online/offline	Talk Login/Logout		Log Maintenance Export
Start Time 2015-03-02	2 00:00:00	End Time 2015	-03-02 23:59:59				Inquire
🛛 🗹 🏠 root	Index Main Type Sub T	ype Time	Content	User/Server Na	Node Name		
☑ -p New Device3_name							
				Curren items	t page:0/0, All 0 F	irst Page Previous	Next Last Page
			User Name: 1	Web Port: 80) CPU: 8%	RAM: 61% 3/2	2/2015 11:47:35 AM

11.2 Log Maintenance

In the local log interface, click "Log Maintenance" button to go to the interface as shown on the right. You can save the log information for a certain time by configuration in this interface.

Log Maintenance			
Set the log maintenance int	formation.		
Les Freine			
Log Expipry —			
Save Time	7 Days	<	
		ок	Cancel

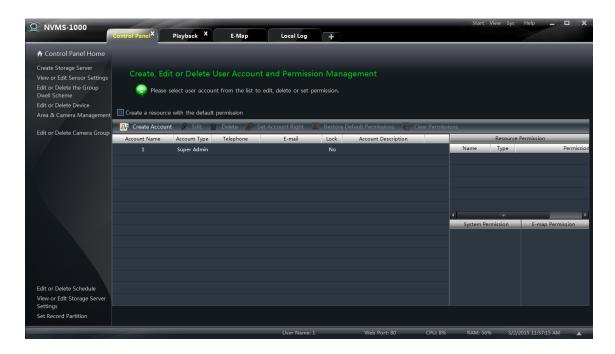
11.3 Export

In the local log interface, click "Export" button and then set a storage path to export the log information.

12 User Management

Click User Management in the control panel to go to the interface as shown below.

There is only one super user registered by you when firstly log in the system. You can add several users and set right for them through the function of "Set Account Right".



12.1 Create a Resource with the Default Permission

In the above interface, *Create a resource with the default permission* means that permission of new resources will be given to all the users if you are going to create new resources.

12.2 Create, Change and Delete Users

Create Account

In the interface of User Management, click "Create Account" to go to the interface as shown on the right. Input account name and password. Set account type and the default permission.

You can bind the account by e-mail or telephone and add description to the account.

Create Account		
Create a new account and se		
New Account Name	*Limited to 1-60 characters	
Password	Limited to 16 characters	
Confirm Password		
Account Type	Administrator Operator	
Initial Permission		
Locke		
E-mail	Limited to 60 characters	
Telephone	Limited to 15 characters	
Account Description		
		Limited to 255 characters
	ок	Cancel

Notes:

- Two types of user: administrator and operator. Administrator enjoys all the system permissions except account and permission management. Operator only enjoy the permissions of broadcast, searching and exporting log.
- If you have checked "Default Permission" under initial permission when creating new account, all the resource permissions and system permissions will be added for the user.

Change Account

In the interface of User Management, select a user and then click "Edit" button to go to the interface as shown on the right. You can change account name, password, e-mail address, etc.

Delete Account

In the interface of User management, select a user and then click "Delete" button to delete it.



12.3 Account Right Configuration

In the interface of User Management, select a user and then click "Set Account Right" to go to the interface as shown below.

Edit the permission fo	or user "user1"			
Select the relevant perm	nission to edit.			
Camera Permission				
Device Permission				
E-map Permission	Add Resource	Remove Res		
System Permission	Name	Туре	Permission	Camera Permission
	root	Area	Live Preview; Record; PTZ Control; Playback; Back	A differ Permission A _ Live Preview Record PTZ Control Camera Configuration A _ Playback Backup
				OK Cancel

Camera Permission

In the interface of Camera Permission, click "Add Resource" button to add resources. Check camera permissions on the right.

You can add different permissions for different users.

Add Resource	😭 Remove Resource		
Name	Туре		
area 1	Area	Live Preview; R	
area 2	Area	Live Preview; R	 ✓ Live Preview ✓ Record ✓ PTZ Control ✓ Playback ✓ Backup
د		Þ	
			OK Cancel

Device Permission

Click *Device Permission* to go to the interface as shown on the right. Select the permissions on the right.

Name Type New Devica1 DVR Device System Permission New Devica2 DVR New Devica3 DVR Device Device Talk Device Log View	Camera Permission			
New Device 1 DVR Device 1 ark	E-map Permission			
New Device 2 D/R Device Log View		New Device1	DVR	
New Device3 DVR Devic	System Permission			
				Device Log view
OK Cancel		4 (0)		
OK Cancel				
				OK Cancel

E-map Permission

Click *E-map Permission* to go to the interface as shown on the right. Add map permission for the selected user.



> System Permission

Click *System Permission* to go to the interface as shown on the right. Select the system permission for the user.

Camera Permission	
Device Permission	System Permission
E-map Permission	System Permission
System Permission	Broadcast
	Search and Export of Local Log
	OK Cancel

Restore Default Permission

In the interface of User Management, select a user and then click "Restore Default Permissions" to restore the default permission of the user.

> Clear Permission

In the interface of User Management, select a user and then click "Clear Permissions" to clear the permissions of the user.

13 Basic

Click *Basic* in the control panel to go to the interface as shown below. System startup and maintenance, backup and restore will be introduced in this chapter. Partition and Path configuration have been introduced in the above chapter, here we do not repeat again.

Г¢	Partition and path Set Record Partition Path of Backup File Set the Ddefault Path of Snap
	System Startup and Maintenance Set the Automatic Startup and Login Operate System Maintenance Edit Port Select Language
	Backup and Restore Backup System Config Restore System Config

13.1 System Startup and Maintenance

Click *System Startup and Maintenance* to go to the interface as shown on the right.

You can set auto login and auto startup of NVMS1000 by checking the two options under "System Startup Settings".

If checking "Automatically Restart Your Computer", the user name and password of the computer need to be input; time interval and restart time need to be selected.

System Startup and Maintenance Sett	ings
System Startup and Maintenance Settings.	
System Startup Settings	
Remember Login	Boot Software Auto Startup
Automatically Restart Your Computer	
User Name	Interval (d) 🔽
Password	Restart Time 8:00:00 AM 0
	OK Cancel

Click *Edit Port* to edit the HTTP port and data port. Click *Select Language* to change the display language of NVMS1000 (NVMS1000 needs to be restarted before language changing takes effect).

13.2 Backup and Restore

When upgrading the software to a new version, you should firstly export the data of the previous version and then import them to the new version so that the repeated addition and settings could be avoided.

13.2.1 Backup System Configuration Data

In the interface of Basic Configuration, click Backup System Configuration to export the configuration data.

13.2.2 Restore System Configuration Data

In the interface of Basic Configuration, click Restore System Configuration to import the configuration data.

13.3 Manually Trigger the Alarm Output

Click Manually Trigger the Alarm Output under Basic to go to the interface as shown on the right.

Check "Enable", select the device and alarm out and then set a name for the alarm output. Click "OK" to save the settings.

After the above settings, an icon 🕅 will appear at the right bottom of the software. Click this icon to trigger the alarm of the selected device

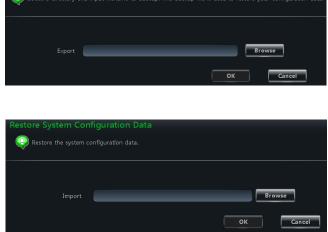
13.4 Video Display Settings

Click Video Display Settings under Basic in the control panel to go to the interface as shown on the right. Set the video title display and video resolution mode and then click "OK" button to save the settings.

13.5 Synchronize Time for Multi-Devices

Click Synchronize Time for Multi-Devices under Basic in the control panel to go to the interface as shown on the right. Click "Synchronize" button to synchronize time for all the devices.

P sy	ynchronize time with PC for a	all devices in the list.		
	Device Name	Device Time	Status	
	Camera1	04/09/2014 11:07:05		
	Camera2	04/09/2014 11:07:05		
	Camera3	04/09/2014 11:06:55		
	Camera4	04/09/2014 11:07:05		
	Camera5	04/09/2014 11:06:55		
	New Device3	04/09/2014 11:06:55		
			Synchronize Back	



😳 Set the parameters of manual alarm

ent information of alarm trigger: (Null)

Alarm Output1 🔲 Alarm Output2 🔲 Alarm Output3 🔲 Alarm Output4

OK

Cance

New Device

66

14 Web Client Login

You can login NVMS1000 by web client. The default port number is 80. In web client, you can do live preview and record playback and so on. The browsers which web client supports are IE7, IE8, IE9, IE10, IE11, firefox, google and opera. Here we take IE11 as an example.

14.1 Login

You can login the web client through LAN or WAN.

14.1.1 Change the Port of Web Client

A popup window will be shown if you start NVMS1000 when port 80 is being used. Refer to the below left figure. Click "Yes" button to change the web port. Refer to the below right figure. You can go to Basic \rightarrow Edit Port interface to change the port.

NVMS-1000	(Q) Modify Web Port
The port of web is occupied, reset it or not?	Port 90
Yes No	ок

14.1.2 LAN Login

If you login NVMS1000 via LAN, you need to input the LAN IP address of the PC. If the web port is not 80, you need to input the LAN IP address plus port number in the address bar as shown below.



14.1.3 WAN Login

Port mapping needs to be done if you log in NVMS1000 via WAN. Please refer to the following steps.

(1) Obtain the LAN IP address of the PC.

(2) Log into the management interface of the router by browser. Forward the LAN IP address and port to the router. Port mapping settings may be different in different routers, so please refer to the user manual of the router for details. The web port is shown at the bottom of NVMS1000 software as shown below.

③ Get the WAN IP address from the router after port mapping. Input the WAN IP address plus web port in the IE address bar to login NVMS1000.

Note: When port mapping, you need to map port 6063 as well. 6063 is used to log in NVMS1000 via ocx WAN. Please refer to the above steps to map 6063.

14.1.4 The Download and Installation of Plugins

Input the IP address plus port in the IE address bar and then click "Enter" key to go to the interface as shown below.



Input the username and password and then click "Login" to log in NVMS1000. The username and password are the same with which you registered in the PC software. If you log in the NVMS1000 web client for the first time, you will need to download and install the relative plug-ins for normal use of the live preview and record playback. Please download and install the plug-ins according to the tips in the interface.

14.2 Live Preview

The live preview interface is shown as below.



The *admin* on the right top of the interface is the username. Click *Logout* to log out the system. Click *Change password* to pop up the window as shown on the right. Input the current password, set a new password and then click "OK" button to save the settings.

Change password	×
Password New password	
Confirm password	OK Cancel

Click < on the left side of the interface to hide the left panel; click > to show it. Click one camera on the left panel to preview its image on the right side of the interface as shown below.



There are some function buttons under the live preview window as shown on the right.

1 -4 - 9 - 16-	25
----------------	----

Button	Description
1 - 4 - 9 16 25	Screen mode button
	More screen mode buttons will be shown by clicking it
es	Close all previews
	Full Screen

Click \checkmark on the right side of the interface to show the right panel as shown below. You can switch the interface between operation and PTZ panel by clicking \bigcirc Operation or \bigcirc PTZ. The PTZ panel is shown below. Click \checkmark to hide the panel.

> PTZ	> Operation
▶ ▲ ▲ ▶ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Close i Snap Close i Snap PTZ con Magnify Default Audio
Operation	Deration
PTZ	PTZ

The PTZ panel is introduced as follows.

Button	Description
Close i	Click it to close the preview window
O Snap	Click it to snap picture
PTZ con	Click it to go to PTZ panel
Magnify	Click it to zoom in the image
▶ ▲ Default	Click it to recover the image to its original size
⊠⊘ Audio	Click it to enable audio and adjust the volume; click it again to disable audio

The operation panel is introduced as follows.

Button	Description
	 ▲ to rotate the dome upwards; to rotate the dome diagonally up-right; ▶ to rotate the dome towards right; ▲ to rotate the dome diagonally down-right; ▼ to rotate the dome diagonally down-left; ▲ to rotate the dome towards left; ▶ to rotate the dome diagonally up-left; ■ to stop rotating the dome
+	Drag the slider to adjust the rotate speed of the dome
─∕ ∢Zoom> †∕ ,	Zoom button. Click 🖾 to zoom in camera image; click 🖾 to zoom out camera image
▲ ←Focus> ▲	Focus button. Click 🛋 to increase the focal length; click 🗈 to decrease the focal length

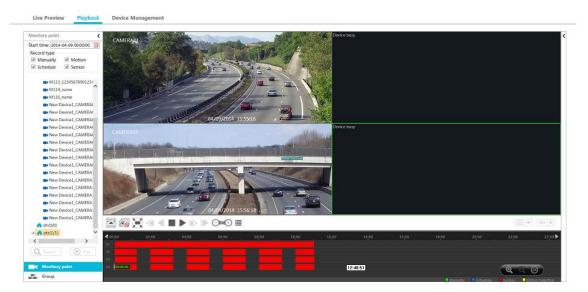
Button	Description
Iris→	Iris button. Click <a>Imit to increase the iris of the dome; click Imit to decrease the iris of the dome
~	Click it to start track
Q	Click it to enable automatic scan
	Click it to enable the windshield wiper (Not supported right now)
	Click it to enable the light (Not supported right now)
•	Click it to view the preset
٢	Click it to view the cruise line

14.3 Record Playback

Click *Playback* on the left top of the interface to go to playback interface as shown below.

Live Preview Pla	ck Device Management	
Monitory point		
Start time: 2014-04-09 00:0		
Record type		
✓ Manually ✓ Moti		
Schedule Sens		
🗉 📥 dvr(22/23)		
hk_Camera 01		
■ 新建设备1_name		
M111_181		
M112_name		
M113_12345678	34	
M114_name		
M116_name		
New Device1_CA	A(
New Device1_CA	A(
New Device1_CA		
New Device1_CA		#6 ▼
New Device1_CA		
New Device1_CA	A(23:59 🕨
Q Search	02 03 03 04 04 04 04 04 04 04 04 04 04 04 04 04	
Monitory point	04	
Group	Manualiv Schedule Sensor Motion (

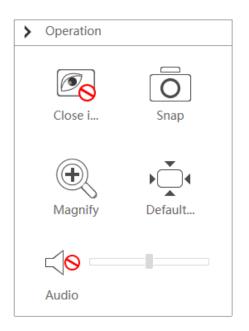
Select the record start time, record type and then click the device to play back the record of the device on the right side of the playback interface. You can also click Search button to search the record and then click Play to play the searched record.



The playback control buttons are introduced as follows.

Button	Description						
	Click it to show screen mode button						
e s	Click it to close all the playback channels						
\times	Full Screen						
۲	Retreat (Not supported right now)						
•	Play backwards (Not supported right now)						
	Stop						
11	Pause						
\triangleright	Playback speed bar						
	Playback frame by frame. When playing back, click II firstly and then click this button to play frame by frame						
	Forward 30s or backward 30s						
=	Event list. Click this button to pop up the event list						
	Record playback model: synchronous or asynchronous						
A C V	Playback source setup. Local playback \ remote playback \ all playback are available						
(0, < 0)	Click to zoom in the proportion; click to zoom out the proportion; click to recover the proportion to 24 hours' proportion. When time scale is zoomed in, you can view the other time points by dragging the timeline						

Click \checkmark on the right side of the playback interface to show the operation panel as shown on the right. The buttons on the operation panel in the playback interface are the same with that of the live preview interface. Please refer to section 14.2 for details.



14.4 Device Management

Click *Device Management* to go to device management interface. Click ① to add device by *Quickly add*, *Manually add* and *Auto Report*. The operations are similar to that of the NVMS1000 main program.

Live Preview Playback Device Management												
Device Management									Search Device			
Index	Device Name	Device Type	Channel Count	Alarm In Count	Alarm Out Count	IP/Domain	Port	Device Number	Edit	Delete		
1	New Device001	ONVIF	0	0	0	192.168.122.36	80					
2	New Device002	IPC	0	0	0	192.168.12.19	9008		Z			
3	New Device003	IPC	1	1	1	192.168.12.158	9008			<u> </u>		
4	New Device004	IPC	0	0	0	192.168.10.5	9008		Z			
5	New Device005	IPC	1	1	1	192.168.12.89	9008			Ū		
6	New Device006	IPC	0	0	0	192.168.10.3	9008		Z	Ū		
7	New Device007	IPC	0	0	0	192.168.10.16	9008			Ū		
8	New Device008	IPC	0	0	0	192.168.10.4	9008			Ū		
9	New Device009	IPC	1	1	1	192.168.12.160	9008			Ū		
10	New Device010	IPC	1	1	1	192.168.12.199	9008					
						I I	Page 1	of 4 🕨 🕅 1	Viev	w 1 - 10 of 33		