

**CVMS Software User Manual** 



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# **1** Introduction

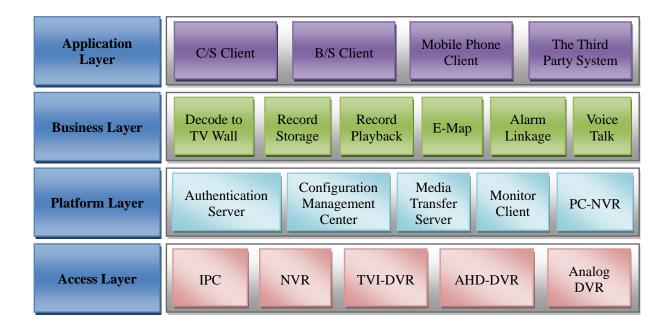
## 1.1 Introduction

### 1.1.1 Summary

NVMS (Network Video Management System) which combines video capture devices (including various DVR/NVR/IPC), alarm capture devices (including various alarms and sensors), servers, IP-SAN, clients (including mobile phones) and background monitor (monitor and TV-Wall) is a set of network video surveillance and management software. It is suitable for large, medium and small enterprises to use.

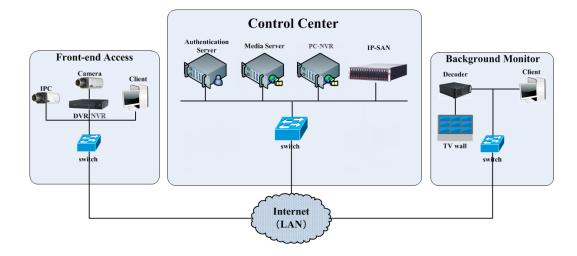


### 1.1.2 Software Architecture



## **1.2 System Components**

## 1.2.1 System



### 1.2.2 Front-end Access

- Front-end devices include IPC, DVR and NVR.
- You need to connect monitor devices such as IPC, DVR and NVR to internet through hubs or routers accessed by Cat5 or Cat5e cables (less than 100 meters) or optical fiber.
- Run monitor client through local PC to configure the local video monitor, monitor devices and so on.

### 1.2.3 Background Monitor

- Background monitors include TV Wall Client, Configuration Management Center and Monitor Client.
- You can setup the real-time image of display devices, these display devices including TV-Wall (decoding images to show on the TV-Wall through video decoder), digital display screen and so on.
- Run monitor client through local PC to view, playback and remotely configure and manage the real-time video of front-end monitor devices.

## 1.2.4 Control Center

- In the control center, configure servers including authentication server and media transfer server to realize various service, such as, device authentication(including Web), video transmission, image storage, alarm handling, etc.
- In the control center, add IP-SAN storage array to realize centralized storage.
- In the control center, connect servers and IP-SAN storage array to internet through hub.
- We take the following IP addresses for example in this manual. (Please set up IP addresses in accordance with the actual situation) :

No.	Server	Function	IP Address
1	Authentication server	Authenticate devices (including Web)	192.168.50.3
2	Media transfer server	Transfer images	192.168.50.4
3	Storage Server PC-NVR	Store videos	192.168.50.5
4	Storage Server IP-SAN	Store videos	192.168.50.6

Note: If servers are installed in the same PC, these servers shall have the same IP address.

# 1.3 Version

Version	Signal access on trial	Average signal access	Max signal access
NVMS v2.0	16 channels video signals	300-400 channels video signals	30000-ch video signals

# 2 Configuration Requirement

## 2.1 Software and Hardware Configuration Requirement

# 2.1.1 S&H Config Requirement for Contorl Center

No.	NVMS-5000 components	Recommendation for hardware configuration	Recommendation for software configuration	Number
1	Authentication Server (including Web Server/Alarm Server/E-Map Server)	Inter(R) Core(TM)i3 3.40GHz or above/4GBMemory/500GB SATA/2×1000M NICs	Windows Server 2008 32bit/64bit /Windows Server 2003 32bit/64bit	1
2	Media Server	Inter(R) Core(TM)i3 3.40GHz or above/4GBMemory/500GB SATA/2×1000M NICs	Windows Server 2008 32bit/64bit /Windows Server 2003 32bit/64bit	It is up to the video format and the number of channel viewing simultaneously
3	PC-NVR	Inter(R) Core(TM)i3 3.40GHz or above/4GBMemory/500GB SATA/2×1000M NICs	Windows Server 2008 32bit/64bit /Windows Server 2003 32bit/64bit	It is up to the video format and the number of channel viewing simultaneously
4	HDD	Capacity:500GB/1TB/2TB/3TB		It is up to the stream, channel and time of the storage video
5	IP-SAN	Supports 12/16/24 SATAs		It is up to the number of the HDD

## 2.1.2 S&H Config Requirement for Backgrounding Monitor

No.	NVMS-5000 components	Recommendation for hardware configuration	Recommendation for software configuration	Number
1	Monitor Client	Inter(R) Core(TM)i3 3.40GHzor above/4GB DDR3/NV GT430 or AMD HD 6570 or above, above 512MB GDDR5 Memory (recommend 1GB GDDR5 memory) /500GB SATA/100M NIC	Windows 7 SP1 32bit/64bit Professional/Ultimate Windows 8 32bit/64bit Professional Windows 10 32bit/64bit Professional	As required by user
2	Configuration Management Center TV Wall Client	CPU: 2G or above Memory: 2GB DDR3 HDD: 500GB SATA NI: 1000M	Windows7SP132bit/64bitProfessional/UltimateWindows 832bit/64bitWindows 1032bit/64bitProfessional	1

## 2.2 Requirement for Firewall

In order to ensure the network security, it is necessary for the system to setup firewall. All monitor ports shall be opened in the installed servers. The open ports are as follows:

Server	Port Type	Port
Authentication Server	Internal Port	6003
Web Server	Service Port	8088
Media Transfer Server	Internal Port	6006
Media Transfer Server	Auto Report Port	2009
Storage Server (PC-NVR/IP-SAN)	Internal Port	6009

**Note**: The above-mentioned ports are the default internal ports of servers. If all these ports are modified, these open ports shall be modified accordingly in the firewall configuration.

# 2.3 Confirm Installation Environment

Item	Checkup Standard		
Hardware	Checkup whether the hardware meets the standard required. (including CPU, memory, HDD, etc.)		
Software	Checkup whether the software meets the standard required. (including the type and version of the operation system, NVMS version, etc.)		
Front-end device	Checkup whether the device access is normal.		
Firewall setup	Checkup whether those open ports of firewall meet the standard required.		
Network	Checkup whether the networks of front-end devices and center equipments are normal.		
TCP/IP config	Checkup whether the settings of IP address, subnet mask, gateway and DNS correct.		

# **3** Install and Uninstall the Software

## **3.1** Install the software

There are three setups, setup of MySQL, Server and Client.

### 3.1.1 Install MySQL

Double click MySQL.exe to install.

1) Select "I accept the license terms", click[Next], select "Custom" and then click[Next];

MySQL Installer			MySQL Installer		
MySQL. Installer Adding Community	License Agreement To proceed you must accept the Oracle Software License Terms.		MySQL. Installer Adding Community	Choosing a Setup Type Please select the Setuo Type that suits	vour use case.
License Agreement	GNU GENERAL PUBLIC LICENSE Version 2, June 1991	<b>*</b>	License Agreement	Developer Default Installs all products needed for	Setup Type Description Allows you to select exactly which products you
Choosing a Setup Type	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA		Choosing a Setup Type	MySQL development purposes.	would like to install. This also allows to pick other server versions and architectures (depending on
Installation	Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.		Select Products and Features	Server only	your OS).
Installation Complete	The activity experiments, our cleanging is to net worket. Preamble ====== The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free isoftware-to-moke sure the software is refer of all its users. This General Public License applies to most of the free Software free on the free Software Foundation controls is covered by the GNU Library General Public License instead.) You can apply it to your programs, too. When we speak of free software, we are referring to freedom, not price. Our General Public License are designed to make sure that you have the foredom to distribute context of thes software. <i>Lance</i> for this: I accept the license terms	çancel	Installation Installation Complete	Instalis only the MySQL Server product.	<pre><gack next=""> Cancel</gack></pre>

2) Select MySQL Servers, unfold it and select "MySQL Server 5.7". Click ↓ to add it. Then click [Next]→[Execute];

MySQL Installer		MySQL Installer	
MySQL. Installer Adding Community	Select Products and Features Please select the products and features you would like to install on this machine.	MySQL. Installer Adding Community	Installation Press Execute to upgrade the following products.
License Agreement Choosing a Setup Type Select Products and Features Installation Product Configuration Installation Complete	Filter	License Agreement Choosing a Setup Type Select Products and Features Installation Product Configuration Installation Complete	Product     Status     Progress     Notes       Image: MySQL Server 57.34     Ready to Install     Ready to Install

3) Click [Next]  $\rightarrow$  [Next], as shown below.

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MySQL Installer		MySQL Installer	
MySQL. Installer Adding Community License Agreement Choosing a Setup Type Select Products and Features Installation Product Configuration Installation Complete	Installation Press Execute to upgrade the following products.  Product Status Progress Notes  NySQL Server 57.34 Complete  Show Details >  < Back Next > Cancel	MySQL: Installer Adding Community License Agreement Choosing a Setup Type Select Products and Features Installation Product Configuration Installation Complete	Product Configuration         We'll now walk through a configuration wizard for each of the following products.         Use of the following products.         Image: Status for each of the following products.         MySQL Server 5.7.14         Ready to Configure         Image: Status for each of the following products.

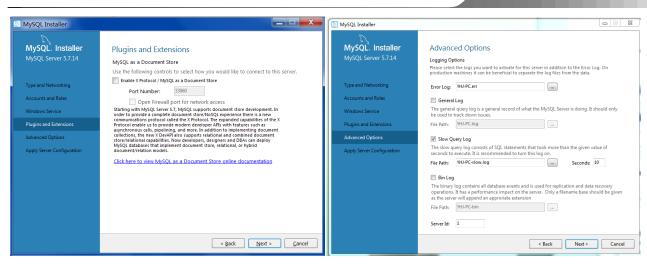
4) Check "TCP/IP", "Open Firewall port for network access" and "Show Advanced Options" as shown below. Then enter MySQL Root Password, a minimum of 4 letters.

NySQL Installer		MySQL Installer	
MySQL Installer MySQL Server 5.7.14 Type and Networking Accounts and Roles Windows Service Plugins and Extensions Advanced Options Apply Server Configuration	Server Configuration Type         Configuration Type         Configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server         Config Type:         Configuration type:         Concertive         Use the following controls to select how you would like to connect to this server.         CDP       Port Number: 33d6         Open Firewall port for network access         Shared Memory       Memory Name: MYSQL         Select the checkbox below to get additional configuration page where you can set advanced options for this server instance.	MySQL: Installer MySQL: Installer MySQL Server 5.7.14 Type and Networking Accounts and Roles Windows Service Plugins and Extensions Advanced Options Apply Server Configuration	Accounts and Roles Root Account Password Enter the password for the root account. Please remember to store this password in a MySQL Root Password: Repeat Password: Password minimum length: 4 MySQL User Accounts MySQL User Accounts MySQL User Accounts Consists of a set of privileges.
	Next >		< Back [Vext > ] Cancel

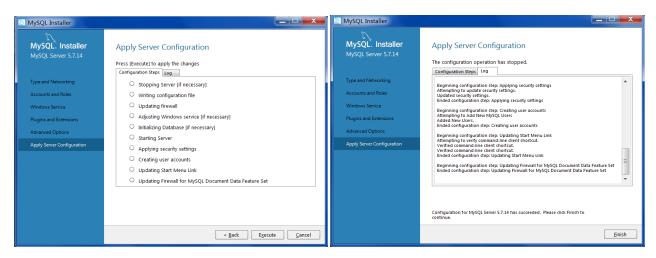
 Click [Add User] to set username and password. To avoid forgetting, please enter "root" and the above password. Then click [OK]→[Next];

MySQL Installer		MySQL Installer	
MySQL. Installer MySQL Server 5.7.14 Type and Networking	Accounts and Roles Root Account Password Enter the password for the root account. Please remember to store this password in a WySQL User Details Root Planse Username. password, and database role. Username rest Host Guil Kests (0)  Role Planse Authentication 9 MySQL Password rele to the user that	MySQL Installer     MySQL Installer     MySQL Server 5.7.14     Type and Networking     Accounts and Roles     Windows Service     Plugins and Extensions     Advanced Options     Apply Server Configuration	Windows Service         Configure MySQL Server as a Windows Service         Windows Service Details         Please specify a Windows Service name to be used for this MySQL Server instance.         A unique name is required for each instance.         Windows Service Name: MySQL Server at System Startup         If Start the MySQL Server at System Startup         Run Windows Service as         The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to pick one of the options below.
	Confirm Password Otrength: Parsword Strength: QK Cancel Center Cen		<ul> <li>Standard System Account Recommended for most scenarios.</li> <li>Custom User An existing user account can be selected for advanced scenarios.</li> <li><a href="https://www.scenarios.com">scenarios.</a></li> <li><a href="https://www.scenarios.com">scenarios.</a></li> <li><a href="https://www.scenarios.com">scenarios.</a></li> <li><a href="https://www.scenarios.com">scenarios.</a></li> <li><a href="https://www.scenarios.com">www.scenarios.</a></li> <li><a href="https://www.scenarios.com">www.scenarios.com</a></li> <li><a href="https://www.scenarios.com">www.scenarios.com</a></li> <li><a href="https://www.scenarios.com">www.scenarios.com</a></li> <li><a href="https://www.scenarios.com"></a>www.scenarios.com</li>     &lt;</ul>

6) Click [Next] to go to "Advanced Options" interface. Please set according to the following picture. Then Click [Next];



#### 7) Click [Execute] $\rightarrow$ [Finish];

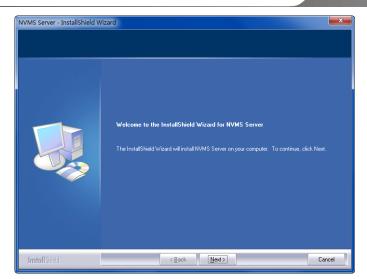


#### 8) Click [Next] $\rightarrow$ [Finish].

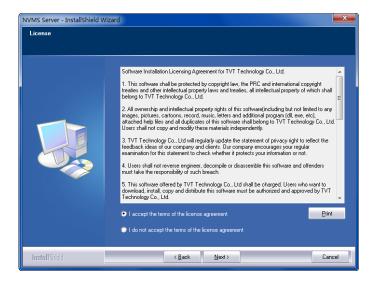
MySQL Installer		MySQL Installer	
MySQL. Installer Adding Community	Product Configuration We'll now walk through a configuration wizard for each of the following products.	MySQL. Installer Adding Community	Installation Complete The installation procedure has been completed.
License Agreement	You can cancel at any point if you wish to leave this wizard without configuring all the products.	License Agreement	Copy Log to Clipboard
Choosing a Setup Type	Product Status	Choosing a Setup Type	
Select Products and Features	MySQL Server 5.7.14 Configuration Complete.	Select Products and Features	
Installation		Installation	
Product Configuration		Product Configuration	
Installation Complete		Installation Complete	
	4 III		
	Next > Cancel		Einish

#### 3.1.2 Install Server

1) Double click "NVMS server.exe". The following interface will be shown. Click [Next].



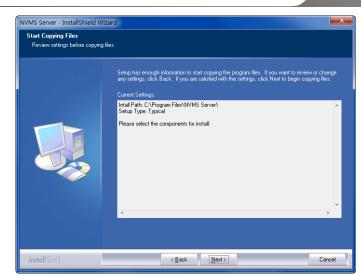
2) Click "I accept the terms of the license agreement" and then click [Next].



3) Click [Browse] to select the installation location and then click [Next].

NVMS Server - InstallShield Wi Choose Destination Location Select folder where setup will ins	
	Setup will install NVMS Server in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder. Destination Folder— C:\Program FilesWIVMS Server\
InstallStield	< Back (Next>) Cancel

4) Click [Next].



5) Check "Create shortcut in desktop" as needed and then click [Finish]".

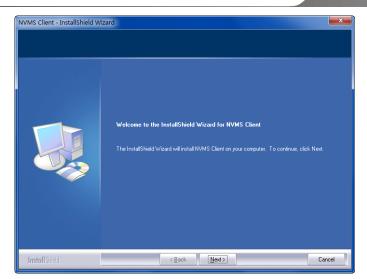
NVMS Server - InstallShield W	izard
	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed NVMS Server. Click Finish to exit the wizard.
	✓ Create shortcu'in desktop
InstallShield	< Back Finish Cancel

After that, ServerTrayUI will pop up as shown below.

	Server	Status	Set	Port	Configure
	Management Server(AuthenticationServerApp)	Running	Stop	6003	Apply
Step All	Database Server(MySQL)	Running			Configure
	Configure Server[ConfigServerApp]	Running	Stop	7002	Apply
Rebeat All	HTTP Server[NVMS-Web]	Starting	Starting	8080	Apply
	Transfer Server[MediaTransferServerApp]	Running	Stop	6006	Apply
	Storage Server[StorageServerApp]	Running	Stop	6009	Apply
	Alarm Server(AlarmServerApp)	Running	Stop	6033	Apply
	Access Server[JoinServerApp]	Running	Stop	6013	Apply
	TV Wall Server(TVWallServerApp)	Running	Stop	6036	Apply
otal running time (day)0(h)10(min)1	Intelligent Analysis Server[IntelligentAnalysisSrvA	Running	Stop	6069	Apply

### 3.1.3 Install Client

1) Double click "NVMS Client setup.exe" and then click [Next].



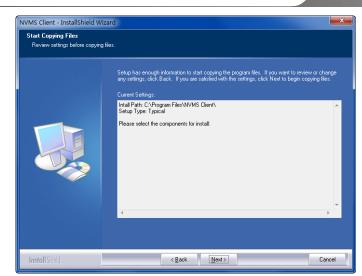
2) Click "I accept the terms of the license agreement" and then click [Next].



3) Click [Browse] to select the installation location and then click [Next].

NVMS Client - InstallShield W	/izard
Choose Destination Location Select folder where setup will	
	Setup will install NVMS Client in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder. Destination Folder- C:\Program Files\NVMS Client\
InstallShield	< Back Next> Cancel

4) Click [Next].



5) Check "Create shortcut in desktop" as needed and then click [Finish]".

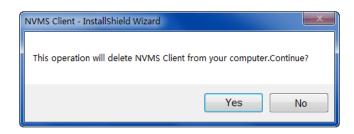
NVMS Client - InstallShield Wi	zard
	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed NVMS Elient. Click Finish to exit the wizard.
	Create shortcut in desktop
InstallShield	< Back Finish Cancel

## 3.2 Uninstall Software

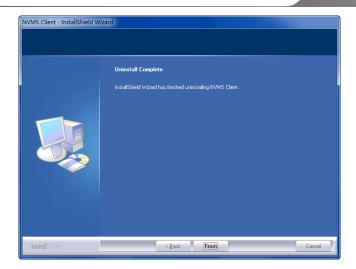
If the new version needs to be installed or there is no necessary to use this software, this software can be uninstalled software. It is strongly recommended to back up the configuration data before installing the new version of NVMS.

The uninstallation steps of the Server are similar to the unistallation of the client.

Click "Start"  $\rightarrow$  All Programs  $\rightarrow$  NVMS Server  $\rightarrow$  Uninstall to pop up the following wizard. Click "Yes" to confirm.



Then click "Finish" button to completely uninstall Authentication Server.



# 4 Login

## 4.1 Run Servers

Before logging onto the client, please ensure all servers are working normally. Having installed successfully for the first time, the server tray will pop up automatically as shown below.

ServerTrayUI					
	Server	Status	Set	Port	Configure
	Management Server[AuthenticationServerApp]	Running	Stop	6003	Apply
Stop All	Database Server[MySQL]	Running			Configure
	Configure Server[ConfigServerApp]	Running	Stop	7002	Apply
Reboot All	HTTP Server[NVMS-Web]	Running	Stop	8080	Apply
	Transfer Server[MediaTransferServerApp]	Running	Stop	6006	Apply
	Storage Server[StorageServerApp]	Running	Stop	6009	Apply
	Alarm Server[AlarmServerApp]	Running	Stop	6033	Apply
	Access Server[JoinServerApp]	Running	Stop	6013	Apply
	TV Wall Server[TVWallServerApp]	Running	Stop	6036	Apply
Total running time 0(day)2(h)12(min)5	Intelligence Analysis Server[IntelligentAnalysisSr	Running	Stop	6069	Apply

The working status and port can be checked from the server tray. All servers can be stopped and restarted. Database can be configured by clicking [Configure].

Database Serv	er Configuration 🗙
Address	127. 0. 0. 1
Port	3306
Password	•••••
Test	OK Cancel

Please set up according to the actual network.

## 4.2 Login

Double click the shortcut icon of "MonitorClient" to run the software as shown below.

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Over Name admin     Password     Authentication Server                     Configure Authentication Server           Configure Authentication Server <td< th=""><th></th><th>Login</th><th></th><th>×</th><th>Configure Authentication Server</th></td<>		Login		×	Configure Authentication Server
Description     Address     Port     Edit     Delete       1     10.20.52.7     6003     Image: Comparison of the second of	Password Authentication Server	Remember Password	Auto Login		Description       Address       Port       OK
1     10.20.52.7     6003     Image: Constraint of the second s	Configu	are Authentication Server	×		Login
Create Select Default Server OK Close Login Cancel	1 10.20	.52.7 6003		Auth	Password •••••• thentication Server 1

- ① Enter username and password (the default username is admin; the default password is 123456).
- ② Click "Setup" to create authentication servers. Enter description, address (IP address of authentication server) and port (the default port is 6003). Then click [OK] to save the settings.
- ③ Click [OK]. Check "Remember Password" or "Auto Login" as needed.
- (4) Click [Login].

## 4.3 Main Menu Interface Introduction

NVMS-2	2.0 Home	+ 2							
E-Map	r <b>eview</b> al-time Preview   Alarm Previe Preview	w Record F Tag Man	Playback Playback   By Time Slice agement   Backup tream Setting   Sched		Con	<b>lap</b> figure E-Map		Edit T	all Management V Wall   Decoding on TV Wall iconfiguration
Add, Ec Configu	rce Management lit or Delete Device   ıre Device   Configure Area ıre Channel Group	User Acc	and Permission ount Setting e User Permission Grou	qı	Alar	rm Center m Log Query   Alarm Linkage edule Setting			<b>i System</b> stem  Zone  Alarm Linkage
Open ti Log Qu	Control Management he Door Remotely   Alarm Link ery   E-Map ACS	cage Alarm Lir	nce Management nkage   Log Query		Vehi	king Lot Management icle Monitor   Vehicle Managem grated Query   System	ent	Real-t	onment Monitoring ime Status   Alarm Linkage t Statistics
Alarm Time	Alarm 🗹 Subsystem Alarm	☑ Zone Alarm ☑ Sensor Alarm Alarm Type	Record Playback	ttendance Alarm Snapshot View	Delete	Handling Status			Unhandled Alarm Nur
8-02-05 13:29:42	53_48.31	Channel-Motion Detection			Delete	Alarm Unprocessed			
8-02-05 13:29:42	51.34_POE2	Channel-Motion Detection	•			Alarm Unprocessed			
8-02-05 13:29:10	53_48.31	Channel-Motion Detection	() ()	~		Alarm Processed	5		
8-02-05 13:29:10	51.34_POE2	Channel-Motion Detection	$\overline{\bullet}$	~	Ū	Alarm Processed			
8-02-05 13:28:18	51.34 POE2	Channel-Motion Detection		2	TIIIT	Alarm Unprocessed			

There are five parts in the main menu interface. The descriptions of each part are as shown below.

Menu Bar

NVMS User Manual

No.	Description	No.	Description
1	Menu Bar	4	Status Bar
2	Tab Bar	5	Alarm Information Bar
3	Functional Areas		

Tab Bar

Menu	Description
View	"Live View", "Edit live view"
System	Including "Live View", "Record Playback", "E-Map", "TV Wall Management", Resource Management", "Account and Permission", "Alarm System", "Alarm Center", "Access Control Management", "Parking Lot Management"; "Environment Monitoring", "Face Recognition", "People Counting", "Record Management", "Operation and Maintenance Management"
Help	Including "User Manual" and "About NVMS"

#### Functional area

Menu	Description						
Live View	To view live images and to record, snapshot and talk, etc.						
Record Playback	To remotely play the local records or back up records.						
E-Map	o manage and display maps, hot spots, etc.						
TV Wall Management	To set TV wall and decoding videos on TV Walls						
Resource Management	To add, modify or delete areas, devices or servers.						
Account and Permission	To add, modify or delete user account and set permissions for these accounts.						
Alarm Center	To set alarm linkage and schedule; To search alarm logs.						
Alarm System	To set alarm subsystem, zones and linkage of the alarm server						
Access Control Management	To open the door remotely or set alarm linkages or view e-map or search log.						
Attendance Management	To set alarm linkage or view logs.						
Parking Lot Management	To manage, monitor or search vehicle.						
Environment Monitoring	To monitor environment in real time and trigger alarms.						
Face Recognition	To recognize, compare or search face.						
People Counting	To monitor and analyze people flow in real time						
Operation and Maintenance Management	To search, export and maintain logs.						
Local Configuration	To set record path, snapshot path, system startup and maintenance, overload and hardware decoding.						

#### Other buttons:

Button	Description
-	Click it to hide the interface.
	Click it to zoom in or out the interface.
×	Click to exit the software.
+	Click it to add the live view page.
-	When the tab pages exceed the applicable numbers, this icon will display. Click it to view the hidden tabs.

# **5** Device Management

## 5.1 Add Encoding Device

In the main menu interface, click "Add, Edit or Delete Device" to go to the following interface as shown below.

Add, Edit or Delete Device	e Config	ure Device	Configure Area	Configure Char	nnel Group							
Device Type	Add	Delete										
Decoder		Device Na	Туре	Channel N	Alarm In	Alarm Ou	IP Address/IP Ra	Port	Online Sta	Edit	Delete	
Alarm Host Access Control System		1(7)	Standard Device	1	1	1	10.20.18.9	9008	Online		Ī	
Intelligent Analysis Server		1(11)	Standard Device	1	1	1	10.20.18.13	9008	Online			
Storage Server Media Transfer Server		1(31)	Standard Device	1	1	1	10.20.18.33	9008	Online			
Access Server		1(48)	Standard Device	1	1	1	10.20.18.50	9008	Online			
Alarm Server TV Wall Server												

#### Click [Add] as shown below.

				Add En	icoding De	vice			×
Quickly	Add Manu	ally Add I	nitiatively Rep	ort					Refresh
	IP Address	Port	Subnet Ma	Protocol	Version	Device ID	Model		
		Idmin			Password	•••••			
Select Trans	sfer Server	∕ledia Transfe	r Server 🧹	Select Stor	age Server	Storage Serve	r 🗸	ОК	Cancel
:	Select Area 🔉	(X Building	$\checkmark$	Create Are	ea (	Automatical	y Link Area		

#### 5.1.1 Quickly Add

Click [Refresh] to quickly search devices in the same local network as shown below. Check the device and allocate the transfer server, storage server, area for it. After that, click [OK].

Note: \* The default media transfer server and storage server can be selected when adding devices. Users can also create new media transfer server and storage server in advance (see Add Media Transfer Server and Add Storage Server).

\* Area must be set up before adding devices. Click [Add Area] to create an area (See Configure Area).

### 5.1.2 Manually Add

			A	dd Encoding	g Device				>
Quickly Ac	ld Manually Ad	d Initiativ	ely Report						
evice Name	IP Address/IP Ran	ge/Domain	Port	Protocol	User Name	Password	Connection Test	Delete	
IPC	IP Address: 192.1	168.226.201	9008	Standard D	admin	•••••	Connection Test	Ū	
elect Transfe	er Server Media 1	ransfer Serve	Selec	t Storage Serve	er Storage Se	rver 🗸	· ]		
	lect Area XX Build			ite Area		ically Link Area	ОК	Cance	el ,

- (1) Enter device name, IP address/IP range/domain name/serial number, username and password and choose protocol type.
- (2) Click [Connection Test] to test whether the device is connected successfully or not.
- ③ Select transfer server, storage server and area and then click [OK].

If the device supports P2P function or NAT function, it can be connected by adding serial number.

Devices can be added in batch by adding IP range.

### 5.1.3 Initiatively Report

Select the "Initiatively Report" Tab to see the following interface.

			Ado	d Encoding E	Device				×
Quickly Ac	dd Manually Add	Initiative	ely Report						
Device Name	IP Address/IP Range	/Domain	Port	Protocol	User Name	Password	Connection Test	Delete	
IPC	IP Address:192.168	.226.201	9008	Standard D			Connection Test	Ū	
<								•	>
Select Transf	er Server Media Trar	nsfer Serve	r 🗸 Selec	t Storage Serve	er Storage Ser	rver 🗸			
Se	elect Area XX Building	9	✓ Crea	te Area	Automati	ically Link Area	OK	Cancel	

- ① Enter the auto report device name and choose the protocol.
- If the DVR/NVR is needed to add, please go to Network→Server interface of the DVR/NVR. Check "Enable", enter the IP address and port (default 2009) of the NVMS and then set the device number of the DVR/NVR.
- If the IP camera is needed to add, please go to Network Configuration→Server Configuration of the IP camera. Check "Do you want IP camera to connect Server", enter the IP address and port (default 2009) of the NVMS and then set the device number of the IP camera.
- (2) Enter the device ID set in the DVR/NVR or IP camera.
- ③ Select the transfer server, storage server, area and then click [OK].

## 5.2 Modify or Delete Device

After devices are added successfully, they will be listed as below.

Add	Delete									
	Device Na	Туре	Channel N	Alarm In	Alarm Ou	IP Address/IP Ra	Port	Online Sta	Edit	Delete
	1(7)	Standard Device	1	1	1	10.20.18.9	9008	Online		Ī
	1(11)	Standard Device	1	1	1	10.20.18.13	9008	Online		
	1(31)	Standard Device	1	1	1	10.20.18.33	9008	Online		
	1(48)	Standard Device	1	1	1	10.20.18.50	9008	Online		

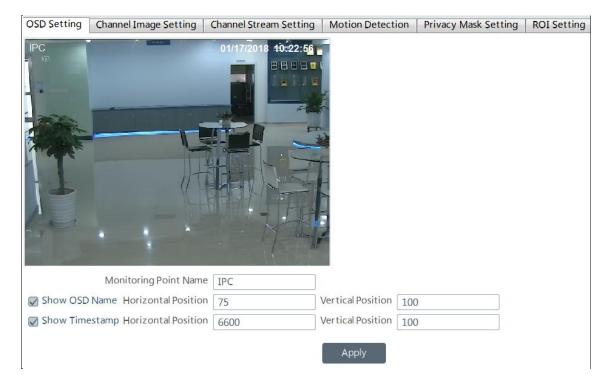
The device channel number, alarm, connection status can be viewed from the above table.

Click to modify the device name, IP address and so on.

Click ut to delete the added device. Check the devices and click [Delete] to delete devices in bulk.

## 5.3 Configure Device

Go to Home→Configure Device interface as shown below. In this interface, the parameters of the device can be set up.



Different devices have different menus. Please configure the device according to the corresponding user manual.

## 5.4 Configure Area

Go to Home $\rightarrow$ Configure Area interface as shown below.

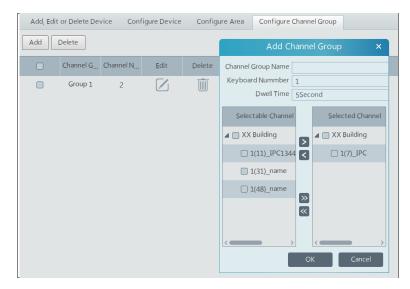
Add, Edit or Delete [	Device Co	nfigure Devi	ce Conf	igure Area	Configure Channel Group
Add Delete All E	mpty Area				
Area Name	Channel N	Edit	Delete		
🔺 🏠 XX Building	4				
Cr	eate Area	×	Ū		
Parent Area		$\sim$			
Area Name					
ок	Ca	ncel			

Click [Add] to go to Area adding interface. Enter area name to create parent area. Then click [OK] to save the settings. To create sub area, Click [Add], choose the parent area, enter the area name and click [OK].

Click to modify area; click to delete area.

## 5.5 Configure Channel Group

Go to Home $\rightarrow$ Configure Channel Group interface as shown below.



- 1 Click [Add].
- (2) Enter channel group name, keyboard number and dwell time.
- Add channels to the channel group. Check the desired channels and click to add channels; choose the selected channel and click to remove those channels; Click to add all channels; click to remove all selected channels.
- ④ Click [Ok] to save the settings.

Select the added channel group and click to modify the channel; click to delete the channel.

## 5.6 Add Media Transfer Server

Media transfer server is in charge of the video signal reception of the front-end devices (like IPC) and transfers the signal to the client to view or to the storage server to record. The client or storage server sends the command of viewing the video of the front-end devices that is also transferred by the media transfer server to the front-end devices.

Go to Home $\rightarrow$ Add, Edit or Delete Device $\rightarrow$ Media Transfer Server.

Device Type 🛛 🔿	Add	Delete							
ncoding Device Decoder		Server Name	Channel N	IP Address	Port	Client Co	Authentic	Edit	Delete
Narm Host Access Control System ntelligent Analysis Server torage Server		Media Transfer Server	4	127.0.0.1	6006	Online	Online		Ū
ledia Transfer Server .ccess Server .larm Server									

Click [Add] to go to media transfer server addition interface. Users can quickly add or manually add media transfer servers. Select the "Quickly Add" tab and Click [Refresh] to quickly search servers in the same local network. Check the desired servers and click

Select the "Quickly Add" tab and Click [Refresh] to quickly search servers in the same local network. Check the desired servers and click [OK] to save the settings.

Select the "Manually Add" tab to go to the media transfer server adding interface. Enter the server name, IP address and port and click [OK] to save the settings.

		Ac	dMedia Transfer Server	×
Quickly A	dd Manually Add			Refresh
	IP Address	Port		

Click to modify the media transfer server; click to delete the media transfer server.

## 5.7 Add Storage Server

Storage server is in charge of the storage of record information, including the information of schedule record, record based on motion alarm, sensor alarm, smart detection alarm (like object removal detection, line crossing detection, etc.), responding to the search and playback of all storage data. It also supports self-defined storage path settings and IP-SAN access. Go to Home  $\rightarrow$  Add, Edit or Delete Device.

Add, Edit or Delete Device	Config	ure Device Configure A	rea Confi	gure Channel G	oup						
Device Type Add Delete											
Encoding Device		C 11	ci	10.4.1.1				<b>B</b> 10			
Decoder		Server Name	Channel N	IP Address	Port	Client Co	Authentic	Record Pa	Edit	Delete	
Alarm Host		Storage Server	4	127.0.0.1	6009	Online	Online	:=		Ī	
Access Control System		5		12/10/012	0000	-	-	•	<u> </u>		
Intelligent Analysis Server											
Storage Server											
Media Transfer Server											
Access Server											
Alarm Ser ver											
TV Wall Server											

Click [Add] to go to storage server addition interface. Users can quickly add or manually add storage servers.

Select the "Quickly Add" tab and click [Refresh] to quickly search servers in the same local network. Check the desired servers and click [OK] to save the settings.

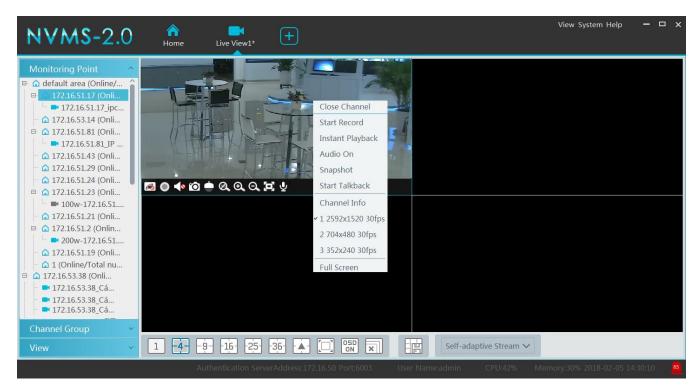
Select the "Manually Add" tab to go to the storage server adding interface. Enter the server name, IP address and port and click [OK] to save the settings.

After the storage server is a	dded, click 🔚	to set record partition.	In th	ne record partition set	ting interface,	select the disk and	click [OK]
to save the settings. Click	🗾 to modify the	e storage server; click		to delete the storage s	server.		

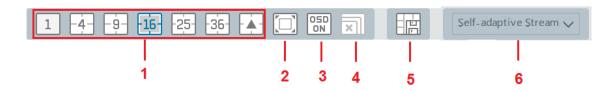
# 6 Live View

## 6.1 Live View

Go to Home $\rightarrow$ Live View interface as shown below.



The descriptions of the live view buttons are as follows.



NO.	Description	NO.	Description
1	Screen display mode	4	Close all channel view
2	Full screen	5	Save the current view mode
3	Enable/disable OSD	6	Choose channel stream

Toolbar on the display window:

Button	Description	Button	Description
æ	Close image	Ø	3D zoom in
0	Start/stop recording	Ð	Zoom in
	Enable/disable audio	Q	Zoom out
Ô	Snapshot	(D)	Fit to window
÷	PTZ control	Ŷ	Enable/disable talkback

Right-click button function:

Menu	Description	Menu	Description
Close Channel	Close image	Snapshot	Capture images
Start Record	Start/stop recording	Start Talkback	Enable/disable talkback
Instant Playback	Click it to play back immediately	Channel Info.	Display channel name, IP address and the current stream
Audio ON	Enable/disable audio	Stream	Choose video stream
PTZ Control	Click it to show PTZ control panel	Full Screen	Display image in full screen

## 6.1.1 View Mode Setting

Users can select the common display mode and self-define the display mode through the buttons on the toolbar. To customize the display mode

(1) Click  $\bigcirc$  on the toolbar.

	Customize Screen Mode ×								
	└─ <b>III</b> C <u>1</u> *	Create Save All	Delete Save Na	me C1 Row &Co	olumn 4±4 V Merge				
Standard Screen Mode:									
1 4 -6 - 8 -9 -10 -13									
-16172125333649-									
-6481- 100									
Wide Screen Mode:									
2 4 6 7 9 12 16									
24 36 48									
Custom Screen Mode;									

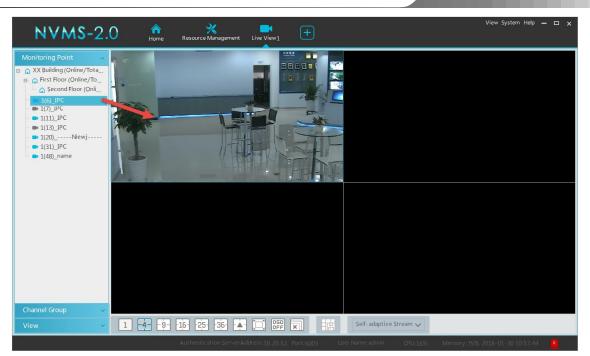
② Enter screen display name and select the display row and column. Hold the left mouse button and drag on the screen and then click [Merge] to merge the screens.

- ③ Click [Save] to save the settings.
- (d) Click [Create] to create a new display screen mode. Click [Save All] to save all customized screen display modes.

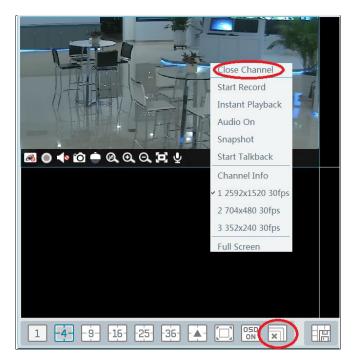
### 6.1.2 Monitoring Point View

#### • Start View

To start live view, please drag cameras from the list to the right display window or select a window and then double click the camera. The image can be dragged to any window at random.



- Stop View
- 1 Place the cursor on the live view window to display the menu toolbar and then click 🐼 to stop viewing.
- (2) Right <u>click</u> on the live view window and then select "Close Channel" to stop viewing.
- ③ Click 🔟 on the toolbar of the live view interface to stop all live view.



### 6.1.3 Channel Group View

#### • Start Channel Group View

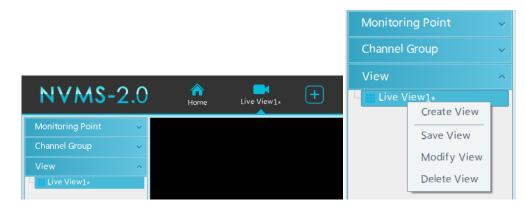
After the channel group is set successfully (See Configure Channel Group), go to live view interface as shown below. Choose a channel group and drag it to a window to view. The channels in the channel group will automatically switch in this window.

Monitoring	Point	~	
Channel Gro		~	
Group 1			
Monitoring	Select Area		
1(7)_IPC	XX Building		
1(11)_IPC	XX Building		
		>	
view		~	1 4 9 16 25 36 A D 05 R Self-adaptive Stream V

- Stop Channel Group View
- (1) Place the cursor on the auto-switch window and then click  $\checkmark$  to stop viewing.
- (2) Right click the auto-switch window and then click "Close Channel" to stop viewing.
- ③ Click 🔟 on the toolbar of the live view interface to stop all live view.

### 6.1.4 Plan View

In the live view interface, select "View" on the left menu bar.



• Add View Plan:

① Right click "Live View 1" and then select "Create View" or click 📩 to add a new view plan. Clicking "Create View" to prompt an adding view window. Enter the view name and click [OK] to set view plan.

② Select screen display mode and then drag monitoring points or channel group to each window.

③ Click "View" on the left menu and then right click the newly added view name. Select "Save View" on the pop-up menu to save the view plan or click in on the live view interface to save the view plan.

Double click view name to call the view plan.

• Modify or Delete View Plan

Select the added view and then right click to prompt a pop-up window. Select "Modify View" or "Delete View" to modify or delete the view plan.

## 6.2 View Control

#### • Multi-screen Display

In the live view interface, the screen display mode can be selected as shown below.

Standard Screen Mode;	
	13-
16 17 21 25 33 36 5	49-
64-) 81-) 100 Wide Screen Mode:	
	16
Custom Screen Mode;	
1 4 9 16 25 36 🗼 🗔 🕮 🛪 🔛	Self-adaptive Stream 🗸

#### • Full Screen Display

In the live view interface, click 🛄 button on the toolbar or right click on the mouse to select "Full Screen" to display the window in full screen mode. Right click on the mouse to select "Exit Full Screen" on the full screen interface to exit full screen.

#### • Single Channel Display

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

#### • Stream Setting

Right click on the live view window to choose video stream. Or select self-adaptive stream or other stream on the toolbar to set the stream for all channels.

#### To set streams

Go to Home→Configure Device and Monitoring Spot. Select the device and click "Channel Stream Setting" tab to set streams.

#### Audio Control

Right click on the live view window and then choose "Audio On" or click S on the toolbar of the window to enable audio. Note: Only one audio can be enabled at the same time. If the audio of one channel is enabled, the former audio will be disabled automatically.

#### • Zoom In or Out

In the live view interface, click on the live view window to zoom in the window and then drag the image to view the whole image; click to zoom out the image; click to restore the image size.



## 6.3 Snapshot

#### 6.3.1 Snapshot

Select a window in which the video is playing and then click 🖸 on the toolbar of this window or right click on the window and then select "Snapshot". The image number and storage path will be displayed.

Note: Only when the video is playing in the window, will the snapshot succeed.

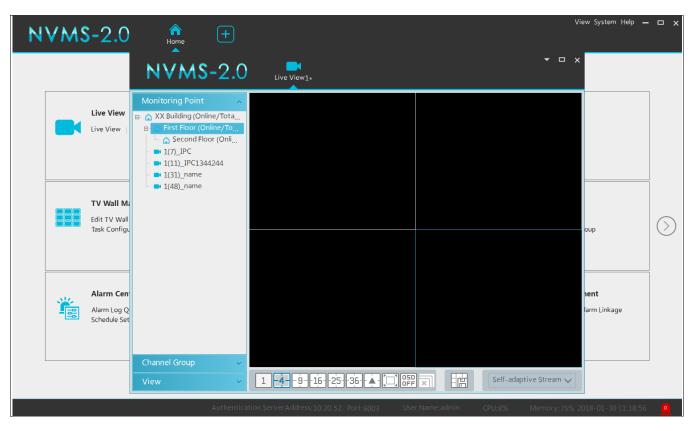


#### 6.3.2 Snapshot Setting

Go to Home  $\rightarrow$  Local Configuration  $\rightarrow$  Record and Snap Setting interface. In this interface, snapshot path and number can be set up.

## 6.4 Multi-Screen View

In the live view interface, multi-screen view can be realized by holding a tab and dragging it to other monitors (graphics card should support multi-screen output at the same time).



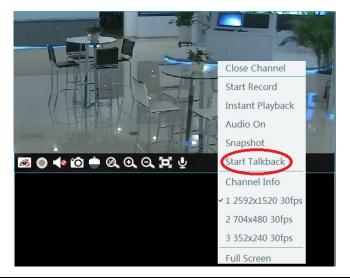
Click on the float window and select "Return to Main Window" to embed this tab in the main interface.



## 6.5 Talkback

In a live view window, click window or this window or select start talkback on the pop-up menu by right clicking to enable talkback.

Note: Since the software only allows enabling one device's talk at the same time, the system will stop talking with the current device if a new talk is enabled.



# 7 Record & Playback

## 7.1 Record Configuration

This software supports many recording types, such as manual recording, schedule recording, motion alarm recording, smart alarm recording, etc.

### 7.1.1 Manual Recording

In the live view interface, select a channel and then click or right click to select "Start record" to start recording. Click this button again to stop recording.

Note: If a channel is recording, closing viewing will stop recording.

### 7.1.2 Schedule Recording

Go to Home  $\rightarrow$  "Configure Record".

Record Stream Setting	Sche	edule Setting		
Area	^	Channel Name	Stream Ty 💊	🗸 Record 🗸
B- XX Building B- A First Floor		1(7)_IPC	Main Stream	5*24
Second Floor		1(11)_IPC1344244	Main Stream	OFF
		1(31)_name	Main Stream	OFF
		1(48)_name	Main Stream	OFF

To set schedule recording, select the channel, stream type and schedule. Then Click [Apply] to save the settings.

- To set schedule:
- ① Click the "Schedule Setting" tab to go to the following interface.

Record S	tream Setting	Schedul	e Setting				
Add	Delete						
	Schedule	Edit	Delete				
	7*24						
	5*24						
	1						

- ② Click [Add].
- ③ Enter the schedule name.
- ④ Set the schedule. Click and then move the cursor to select the time; click and then move the cursor to delete the selected time. Click "Input Manually" to manually enter the time. Click "All" or "Reverse" to quickly select time. Click "Clear All" to clear all schedule.

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	Modify Schedule	×
ScheduleName 1		🚺 🥔 Input Manually Select All Reverse Clear A
Sun. 0 2 4 0		14 16 18 20 22 24 Input Manually Select All Reverse Clear A
Mon. 0 2 4 6		14 16 18 20 22 24 Input Manually Select All Reverse Clear A
Tue. 0 2 4 6		14 16 18 20 22 24 I Input Manually Select All Reverse Clear A
Wed, 0 2 4 6		14 16 18 20 22 24 Input Manually Select All Reverse Clear A
Thu, 0 2 4 6		14 16 18 20 22 24 Input Manually Select All Reverse Clear A
Fri. 0 2 4 6		14 16 18 20 22 24 Input Manually Select All Reverse Clear A
Sat. 0 2 4 6 04:06-16:59		14 16 18 20 22 24 Input Manually Select All Reverse Clear A
C	Ж	Cancel

### 7.1.3 Alarm Linkage Recording

(1) Go to Home  $\rightarrow$  Configure Device interface. Select the desired device to enable and set schedules.

② Go to Home→Alarm Center→Alarm Linkage as shown below. Select alarm type, enable record, set linakage channel and set schedules.

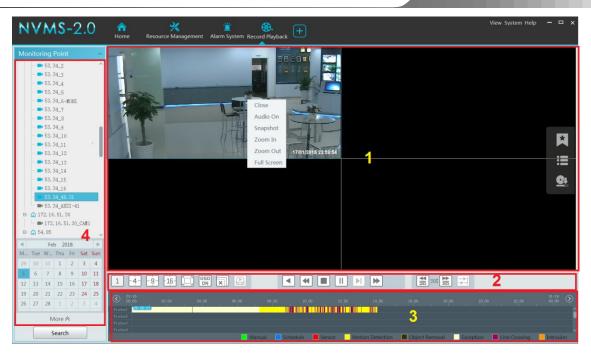
③ Click [Apply] to save the settings.

Alarm Log Query Alarm Linkage Schedule Setting												
Area Alarm Type Channel-Motion Detection V All ON All OFF Reset Apply												
	Device Name		Audio	V I	PTZ Co 🗸	Record 🗸	Alarm 🗸	Snapshot 🗸	Alarm 🗸	TV Wall 🗸	Schedule 🗸	
🖵 🛄 Second Floor	1(7)_IPC	$\sim$	ON		ON	ON	ON	ON	ON	ON	OFF	
	1(11)_IPC1344244	$\sim$	ON		ON	ON	ON	ON	ON	ON	OFF	
	1(31)_name	$\sim$	OFF		OFF	ON	OFF	OFF	OFF	OFF	OFF	
	1(48)_name	$\sim$	OFF		OFF	ON	OFF	OFF	OFF	OFF	OFF	

## 7.2 Record Playback

In the main menu interface, click "Record Playback" to go to record playback interface. Record files saved on the HDD/ SD card of the devices and storage server can be played.

There are two types of record playback: synchronous playback and asynchronous playback.



#### Area Description

Area	Description	Area	Description
1	Playback area	3	Record timetable area
2	Toolbar	4	Time and event search area; resource area

Toolbar on Playback Window

Button	Description	Button	Description
æ	Stop viewing	Ð	Zoom in
	Audio on/off	Ø	Zoom out
Õ	Snapshot	Ξ	Fit to window

Button Descriptions of Area 2:

Button	Description
1 -4916-	Screen display mode button. 1/4/9/16 screen mode is optional.
	Full screen
OSD ON	Enable or disable OSD
×	Close all window viewing
	Get record from network devices
	Get record from storage servers
	Rewind
•	Low speed playback
	Stop

	Play/Pause
M	Next frame. In the playback mode, click the pause button and then click this button to play frame by frame.
•	Click it to select playback speed.
	Forward 30s or backward 30s
	Synchronous playback or asynchronous playback

#### Right-click button menu

Menu	Description	Menu	Description
Close	Close viewing	Zoom out	Zoom out the current image
Audio On/Off	Audio on/off	Full Screen	Click to enter full screen mode
Snapshot	Snapshot	Sub stream	Switch to sub stream playing
Zoom In	Zoom in the current image		

Other buttons

Button	Description	Button	Description
×	Add tag	!!!	Event list
<u>Ct</u>	Backup		

Set record date, record type (for some devices, "Main Stream" can be selected to play the record, or the record will be played by sub stream if unselected) and the record playback source in the playback interface .Drag the camera on the right side to playback window for playing or double click a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and then click be a desired channel to playback or Click [Search] to search the record files and the click be a desired channel to playback or Click [Search] to search the record files and

Playback record type includes manual recording, motion detection recording, schedule recording, sensor recording, object removal recording, video exception recording, intrusion recording and line crossing recording

In the timetable, different color bars stand for different record types. For instance, 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, etc.

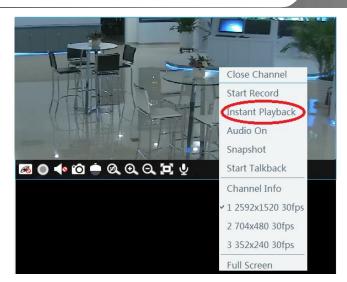
Window1 100:00101 Window1 Window3	
Window3	
	🕀 🔾 24 🗸
🔄 Manual 🔄 Schedule 🔚 Sensor 🔛 Motion Detection 🔳 Object Removal 📃 Exception 📕 Line Crossing	Intrusion

The time scale can be zoomed in by clicking and the time scale can be zoomed out by clicking . The time scale can be restored to 24 hours by clicking . When the time scale is zoomed in, drag the timeline to see the time spots.

### 7.2.1 Instant Playback

#### Instant Playback

In the live view interface, right clik on a playing channel to select "Instant Playback" and then set the playback time to play the record instantly (the record of the channel in the past five minutes will be searched and played from that time where the record exists).



#### 7.2.2 Synchronous Playback

**Synchronous Playback:** in a certain time, all channels playback its record at the same time together; if one channel has no record data at this time, this channel will wait.

Click on the toolbar in the playback interface to go to the synchronous playback interface. Please play the record according to the ways introduced as above. The record bar in synchronous mode is as below.

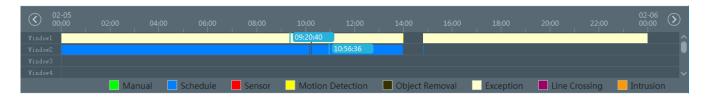


In synchronous mode, one camera can only have one playing window. All cameras' record information can be viewed at the same time. When playing record file in synchronous mode or asynchronous mode, clicking is will be useless unless all the playback windows are closed.

#### 7.2.3 Asynchronous Playback

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

Click to go to the asynchronous playback interface as shown below. Please play the record according to the ways introduced as the above. The record bar in asynchronous mode is as below.



### 7.2.4 Playback by Time Slice

(1) Go to Home $\rightarrow$ By Time Slice interface as shown below.

By Time Slice By Event By	Tag Backup		
Monitoring Point	2018-01-18 08:00:00	2013-01-18 08:10:00	
└ ■ 1(48)_name			
Start Time: 2018-01-30 00:00:00 💽			
End Time: 2018-01-30 00:00 (C)			

- ② Select channel (or monitoring point), set the start time and the end time, select the record source and then click [Search].
- (3) Click **b** to play the record.

#### 7.2.5 Playback by Event

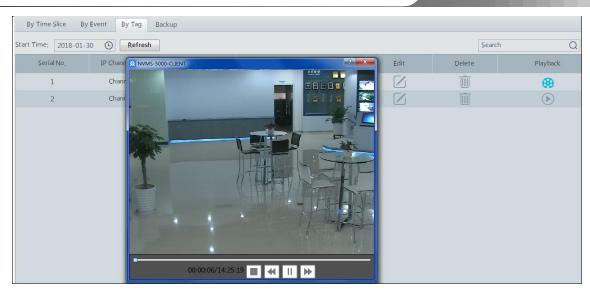
(1) Go to Home  $\rightarrow$  By Event interface as shown below.

By Time Slice By Event By	Tag Backup								
Monitoring Point	Search	Q							
B:  AX Building (Online/Total n B:  First Floor (Online/Total	Serial No.	Name	Start Time	End Time	Duration	Туре	Playback	Bac	kup
L Second Floor (Online - ■ 1(7)_IPC - ■ 1(11)_IPC1344244	1	1(7)_IPC	2018-01-30 10:29:56	2018-01-30 11:42:20	1Hour12Minute24Se	Schedule	۲	(	Ð
- ► 1(31)_name - ► 1(48)_name	2	1(7)_IPC	2018-01-30 08:49:06	2018-01-30 10:29:55	1Hour40Minute49Se	Schedule	۲	(	Ð
Start Time: 2018-01-30 00:00:00 🕒									
and Time: 2018-01-30 23:59:59 🕒									
Search	🔽 Manual 🔽 S	chedule 🗾 Sensor 🏹 Mo	tion Detection 🕎 Object R	emoval 🖌 Exception 🕎 Li	ne Crossing <mark>子</mark> Intrusion		Current Page: 1 / 1, Total 2	<b>4 b</b>	Þ

- ② Select the desired monitoring point, set the record source, the start time and the end time and then check events.
- ③ Click [Search]. The searched record data will be listed. Click 🕑 to play the record; click 💽 to back up the record data.

### 7.2.6 Playback by Tag

- (1) Go to Home $\rightarrow$ Record Playback interface.
- 2 Select a channel and put the cursor on the right center. Then a tag icon ( ) will appear. Click this icon to add tag.
- (3) Go to Home  $\rightarrow$  By Tag interface. Select the start time and click [Refresh] to search the added tags.
- (4) Click ( in the playback column to play the record.



# 7.3 Backup

In the main menu interface, click "Backup" to go to the backup interface. The setting steps are as follows:

① Select the desired monitoring point.

- ② Select date and click "More" to select the start and the end time and event type.
- Click to get records from device or storage server.
- (4) Click "Storage Path" to set the record storage directory.
- (5) Set the start time and the end time of backup. Then click [Backup].
- The backup progress will be seen during backing up the record. Click in to pause; click to stop backing up the record; click to clear the backup list.

By Time Slice By Event By	Tag	Ba	kup					
Monitoring Point  XX Building (Online/Total n  A Trist Floor (Online/Total,  C Second Floor (Online,	<ul> <li>Mon</li> <li>25</li> <li>1</li> </ul>	26 2	3	Thu 28 4	Fri 29 5		31 7	(€)         01.30         02.00         04.00         06.00         08.00         10.00         12.00         14.00         16.00         18.00         20.00         22.00         00.01         (0)           Chwardal         -<
(7)_IPC ↓ (11)_IPC1344244 ↓ (131)_name ↓ (148)_name	8 15 22 29	9 16 23 30		18 25	19 26	13 20 27 3	21 28	<b>Q</b> Q 8
	Serial	No.	M	lore ; C	hanne     i     h     anne     i	el		itorage Path / C:/backup     Start Time     2018-01-30 09:08:10     End Time     Zolla-01-30 09:08:23     Backup       Start Time     End Time     Duration     Progress     Operation
	1			1(	(7)_IP	С		2018-01-30 09:08:10 2018-01-30 09:08:23 0Hour0Minute13Second 38% 🔳 🔳
Search	<	_	_	_	_	_	_	

# 8 Alarm Management

# 8.1 Alarm Server Configuration

### 8.1.1 Add Alarm Server

Alarm server is in charge of receiving and recording alarm information of connected devices and then sending the alarm information to the relevant user terminal system or devices in accordance with prior alarm settings. Go to Home $\rightarrow$ Add, Edit or Delete Device  $\rightarrow$ Alarm Server interface.

Add, Edit or Delete Device	e Configu	ire Device	Configure /	Area Configure Channe	el Group		
Device Type 🛛 🔿	Add	Delete				AddAlarm Server	×
Encoding Device Decoder		Serve	Quickly A	dd Manually Add			Refresh
Alarm Host Access Control System		Alarm S		IP Address	Port		
Intelligent Analysis Server							
Storage Server Media Transfer Server							
Access Server							
Alarm Server TV Wall Server							
							OK Cancel

Click [Add] to prompt an alarm server adding window. Click [Refresh] to quickly add alarm servers or manually add the server's name, IP address and port.

Click Click to modify the added alarm server; click to delete the added alarm server.

### 8.1.2 Alarm Configuration

(1) Go to Home  $\rightarrow$  Configure Device interface.

Add, Edit or Delete Device	Configure Device	Configure Area	Configure Channel Group					
Encoding Device	OSD Setting	Channel Image Setting	Channel Stream Setting	Motion Detection	Line Crossing	Intrusion	Object Removal	Exception
XX Building     A XX Building     A First Floor     A Second Floor     A First			eo Blur 📄 Enable Video Cokurrm Sensitivity 🔹		- 1			
Alarm Host Access Control Device	~		Apply					

Select the desired device to enable alarms (refer to the user manual of the corresponding device for the detailed settings). (2) Go to Home  $\rightarrow$  Alarm Center  $\rightarrow$  Alarm Linkage interface.

Alarm Log Query Ala	rm Linkage Sche	dule Setting	9															
Area	Alarm Type	Channel-Mo	otio	on Detect	ion	$\checkmark$	All ON		All O	FF	Res				pply			
XX Building	Device	Name		Audio	$\sim$	PTZ Co 🗸	Record N	~	Alarm N	~	Snapshot 🗸	Alarn	י י	$\sim$	TV Wall	$\sim$	Schedule	-
🚡 🔓 Second Floor	1(7)_IPC	`	~	ON		ON	ON		ON		ON	ON			ON		OFF	
	1(11)_IPC13	44244	~	ON		ON	ON		ON		ON	ON			ON		OFF	
	1(31)_name	`	~	OFF		OFF	ON		OFF		OFF	OFF			OFF		OFF	
	1(48)_name	`	~	OFF		OFF	ON		OFF		OFF	OFF			OFF		OFF	

Select area, alarm type and then enable alarm linkages.

All ON: enable all alarm linkages of the current alarm type and area (schedule excluded).

All OFF: disable all alarm linkages of the current alarm type and area (schedule excluded).

Select 🎽 beside the device name and select "ON" to enable all alarm linkages of the device (schedule excluded).

1(11)_IPC134424	44 🗸	ON	ON	ON	ON	ON	ON	ON	OFF
1(31)_name	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
1(48)_name	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF

Select 👻 beside the title (like record) to enable record linkage of all devices (schedule excluded).

The alarm linkage settings of PTZ control, record, alarm view, snapshot, alarm output and TV Wall are the same with each other. Here take record linkage for example to introduce the setting steps.



Check the selectable channel and click to select the channel; check the selected channel and click to remove this channel; click to remove all selected channel.

After the channels are selected, check "On" and then click "OK" to save the settings.

③ Set alarm schedule. Select the schedule of the desired device. 7\*24 or 5\*24 is the default schedule. Other schedules need to be set in advance. Click the "Schedule Setting" tab to set (See Schedule Recording  $\rightarrow$  To set schedule for details).

#### 8.1.3 Alarm View

Having set the alarm preview linkage, the alarm view window will prompt when an alarm is triggered.

Alam Time       Alam Seource       Alam Type       Record Playback       Stagbad View       Deleted       Handling Status         2018-02-05 17:41:03       53,48.31       Channel-Motion Detection       Image: Channel Motion Detection       Image: Channel	NVMS-	•2.0 A	Alarm Preview +					View System Help 🗕 🗖 🗙
Alarm Time     Alarm Resource     Alarm Type     Record Playback     Snapshot View     Delete     Handling Status       2018-02-05 17.41:58     53,48.31     Channel-Motion Detection     Image: Channel-Motion Detectio					23:59:64			
Alarm Time     Alarm Resource     Alarm Type     Record Playback     Snapshot View     Delete     Handling Status       2018-02-05 17:41:58     53_48.31     Channel-Motion Detection     Image: Channel-Motion Detectio								The local distance Management
2018-02-05 17.41:58       53,48.31       Channel-Motion Detection       Image: Channel-Motion Detection       Image: Channel-Motion Detection         2018-02-05 17.41:40       53,48.31       Channel-Motion Detection       Image: Channel-Motion Detection       Image: Channel-Motion Detection         2018-02-05 17.40:30       53,48.31       Channel-Motion Detection       Image: Channel-Motion Detection       Image: Channel-Motion Detection         2018-02-05 17.40:30       53,48.31       Channel-Motion Detection       Image: Channel-Motion Detection       Image: Channel-Motion Detection         2018-02-05 17.40:11       53,48.31       Channel-Motion Detection       Image: Channel-Motion Detection       Image: Channel-Motion Detection			and the second			Doloto	Handling Statue	onnandied Alarm Number.4
2018-02-05 17:41:40         53_48.31         Channel-Motion Detection         Image:								
2018-02-05 17:40:11 53_48.31 Channel-Motion Detection 🕑 🔄 🔟 Alarm Processed				<u> </u>		-		
	2018-02-05 17:40:30	53_48.31	Channel-Motion Detection	ک	2	Ū	Alarm Unprocessed	
	2018-02-05 17:40:11	53_48.31	Channel-Motion Detection	۲		Ŵ	Alarm Processed	
2018-02-05 17:40:11 51:34_POE2 Channel-Motion Detection (►) 🔤 🔤 Alarm Unprocessed 🗸	2018-02-05 17:40:11	51.34_POE2	Channel-Motion Detection	$(\mathbf{b})$	~	Ī	Alarm Unprocessed	~

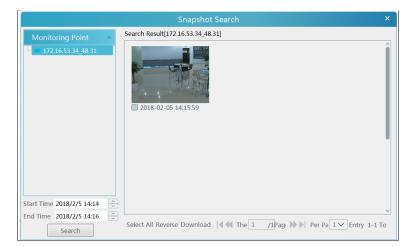
Click 🕑 or 🖾 to play the record or captured images; click 🔟 to delete alarm information.

### 8.1.4 Alarm Log Query

Alarm logs can be searched and exported by going to Home→Alarm Center→Alarm Log Query interface.

Alarm Log	g Query Alarm Linkage	Schedule Setting			
Start Time	16/01/2018 00:00 😌 En	d Time 30/01/2018 23:59 😌	Query Export		
No.	Alarm Time	Alarm Resource	Alarm 🗸 Det	ails Record Pl Snapsho	t
51	2018-01-26 10:18:26	1(31)_name	Channel-L		
52	2018-01-26 10:18:26	1(31)_name	Channel-L		
53	2018-01-26 10:18:23	<u>1(31)_</u> name	Channel-E		
54	2018-01-26 10:18:23	1(31)_name	Channel-E		
55	2018-01-26 10:17:22	1(31)_name	Channel		
56	2018-01-26 10:17:08	1(31)_name	Channel-E		
57	2018-01-26 10:16:15	1(31)_name	Channel-E		
58	2018-01-26 10:15:42	1(31)_name	Channel-E		
59	2018-01-26 10:15:31	1(31)_name	Channel-E		
60	2018-01-26 10:15:31	1(31)_name	Channel-E		
61	2018-01-26 10:15:24	1(31)_name	Channel-E		

Click to play the record; click to open the snapshot search window as shown below.



## 8.2 Alarm System

### 8.2.1 Add Host

Go to Home→Add, Edit or Delete Device→Alarm Host interface. Click [Add] to prompt the following interface.

Add, Edit or Delete Device	e Configure	Device C	onfigure Area	Configure C	hannel Group					
Device Type 🛛 🔿	Add De	lete								
Encoding Device										
Decoder		evice Na	Type Sub	osyste Zone	Nu Serial No	. Port	Online Sta	Subsyste	Edit	De
Alarm Host					AddAlarm Ho	st				×
Access Control System										
Intelligent Analysis Server	Device Name	Serial No.	Password	Subsystem	Zone Number	Protocol	Delete			
Storage Server										
Media Transfer Server										
Access Server										
Alarm Ser ver										
TV Wall Server										
	Select Area	XX Building	$\checkmark$	Select Acces	s Server Acces	ss Server	$\sim$	ОК	Cance	
	1	Automatica	ally Link Area	Crea	ate Area		I	UK .	Cance	

At present, the software only support Hikvision alarm host. Please add the host name, serial number, port, username, password, subsystem number, zone number, area and access server. Then click [OK] to save the settings.

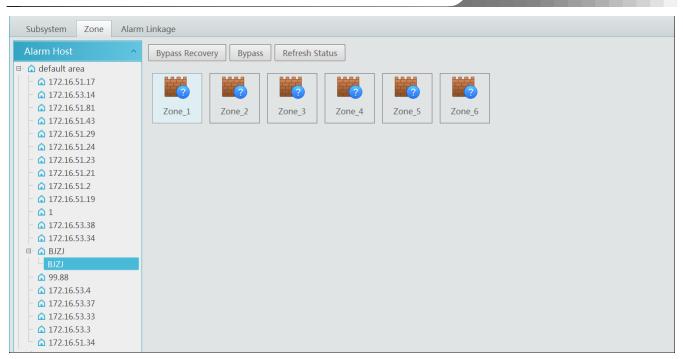
#### 8.2.2 Configure Subsystem

Go to Home→Alarm System→Subsystem interface as shown below. "Arm", "Disarm", "Clear Alarm" or "Refresh Status" can be operated in this interface.

Alarm Host	^ Arm	Disari	m C	lear Alarr	m Re	fresh St	atus													
<ul> <li>default area</li> <li></li></ul>	2	SubSyst	tem_1		2	SubSys	stem_2		2	SubSyst	tem_3		2	SubSys	tem_4		2	SubSyst	em_5	
<ul> <li>172.16.51.43</li> <li>172.16.51.29</li> <li>172.16.51.24</li> </ul>	<b>©</b> 0	0	.∎0	0 6	<b>6</b> 0	0	. 0	0 (9	<b>©</b> 0	0	. 0	0 19	<b>@</b> 0	0	.₽0	0 9	<b>©</b> 0	0	. ● 0	0 9
<ul> <li> <sup>1</sup> 172.16.51.23         <sup>1</sup> 172.16.51.21         <sup>1</sup> 172.16.51.2         <sup>1</sup> 172.16.51.2         <sup>1</sup> 172.16.51.19         <sup>1</sup> 172.16.51.19</li></ul>	2	SubSyst	tem_6																	
- 1 - 172.16.53.38 - 172.16.53.34	<b>@</b> 0	0	.∎ 0	0																
<ul> <li>■ BJZJ</li> <li>BJZJ</li> <li>■ 99.88</li> </ul>	•																			
- 172.16.53.4 - 172.16.53.37																				
<ul> <li>▲ 172.16.53.33</li> <li>▲ 172.16.53.3</li> <li>▲ 172.16.51.34</li> </ul>																				

#### 8.2.3 Zone

Go to Home→Alarm System→Zone. "Bypass", "Bypass Recovery" and "Refresh Status" can be set up in this interface.



### 8.2.4 Alarm Linkage

Go to Home  $\rightarrow$  Alarm System  $\rightarrow$  Alarm Linkage interface as shown below. The settings of alarm linkage here are the same as alarm linkage of alarm center.

Subsystem Zone	Alarm	Linkage									
Area	^	Alarm Type Subs	system-Arm	<b>~</b>	All ON	All OFF	Reset	Appl	у		
XX Building     A First Floor		Device Name	Audio	✓ PTZ Co √	Record 🗸	Alarm 🗸	Snapshot 🗸	Alarm 🗸	TV Wall 🗸	Schedule 🗸	/
Second Floor											
Second Floor											

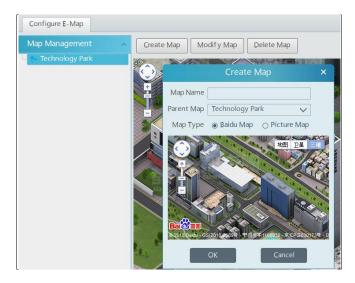
# 9 E-Map

The e-map service is used to store the e-map information of the system. The client landing anywhere can share the same e-map.

## 9.1 Configure E-Map

### 9.1.1 Create E-Map

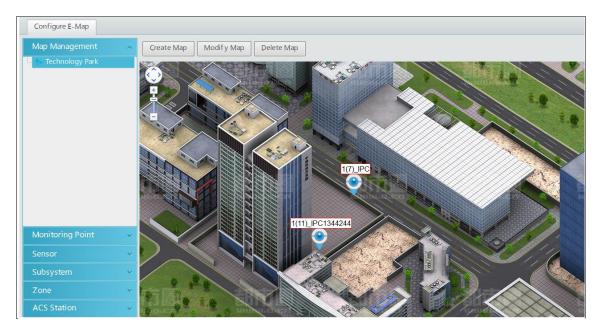
Go to Home  $\rightarrow$  E-Map interface. Click [Create Map] to create a map.



Enter E-map name, select parent e-map and map type. Then click [OK] to save the settings.

#### 9.1.2 Add Hotspot

The hotspots include monitoring points, sensors, subsystem, zone and ACS station. Drag a hotspot to the corresponding area on the map as shown below.



Click [Modify Map] to change map name and parent map. Select [Delete Map] to delete the added map.

#### 9.1.3 E-Map Monitoring

Go to Home  $\rightarrow$  E-Map Monitoring interface. Select a window on the right and then double click the monitoring point to view the real-time image.



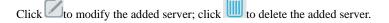
# 10 TV Wall

## 10.1 Add TV Wall Server

Go to Home  $\rightarrow$  Add, Edit or Delete Device  $\rightarrow$  TV Wall Server interface as shown below.

Add, Edit or Delete Device	Add, Edit or Delete Device         Configure Device         Configure Area         Configure Channel Group										
Device Type 🔷 🔿											
Encoding Device											
Decoder		Server Name	IP Address	Port	Client Co	Authentic	Edit	Delete			
Alarm Host		TVWall Server Unit	127.0.0.1	6036	Online	Online		Ū			
Access Control System			127.0.0.1	0050			<u></u>				
Intelligent Analysis Server											
Storage Server											
Media Transfer Server											
Access Server											
Alarm Ser ver											
TV Wall Server											

An adding TV Wall window will be prompted by clicking [Add]. Click [Refresh] to quickly add the TV wall server in the same local network, or add the TV wall server by manually entering server name, IP address and port.



## 10.2 Add Decoder

Decoder is used to decode the video signal transmitted by the transfer server. The decoding output is a standard video signal. The decoder is necessary for decoding on the TV wall.

Go to Home $\rightarrow$ Configure Device $\rightarrow$ Decoder interface.

arm Host ccess Control System	Configur	elete	onfigure Area	comgute ci	hannel Group								
arm Host ccess Control System													
arm Host ccess Control System			_		_		_				 		
ccess Control System		Device Name	Output N	IP Address	s Port	Online St	Edit	Delete					
telligent Analysis Server orage Server		172.16.50.224	2	172.16.50.22	24 8888	Online							
		172.16.50.225	4	172.16.50.23		Online		TIIIT		×			
orage Server edia Transfer Server					Ad	ldDecoder							
ccess Server		Quickly A	A							Refresh			
arm Server			IP Address	Port	Subnet Mask	Version	Dev	ice ID					
/ Wall Server			172.16.50.226	8888	255.255.0.0	2.0.0.beta4	3E:9A:1D:	:3F:83:3F					
			172.16.48.61	8888	255.255.0.0	1.3.1	00:00:00:	18:AE:20					
			172.16.51.101	8888	255.255.255.0	1.3.1	5E:DE:1E:	22:D7:35					
			172.16.46.207	8888	255.255.0.0	1.0.0.beta4	2E:6A:B5:	8E:B6:4A					
			172.16.46.21	8888	255.255.0.0	1.0.0.beta4	02:0C:80:	51:4A:FF					
			172.16.46.23	9999	255.255.0.0	1.0.0.beta4	62:2D:3A:	:9F:85:4F					
			172.16.49.101	8888	255.255.0.0	1.3.2	DA:86:80	:18:DF:4B					
			172.16.48.63	8888	255.255.0.0	1.0.0	7A:97:C0:	97:63:E8					
			172.16.50.203	8888	255.255.0.0	2.0.0.beta4	A2:FA:48:	2B:CE:6A					
		User Nar Select TV W	me admin /all TV224	~	Password •				ОК	Cancel			

The setting steps of adding decoders are the same as adding encoding devices (see Add Encoding Device for details).

#### **10.2.1 Create and Connect Decoder**

The decoder needs to be connected to this platform which must be master decoder. Login the web client of the decoder as shown below.

Go to Basic Settings  $\rightarrow$  System Settings to check whether this decoder is master or not. If not, change the user permission of the decoder to master. Then apply the settings and restart the decoder.

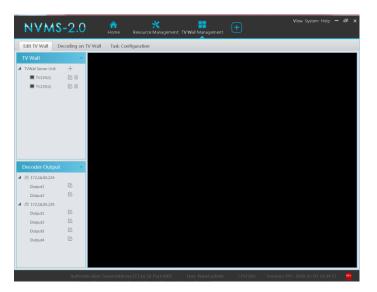
Decoder	sic Settings Time Config Net Config User Config BackUp
Decode Config	Basic Settings
▶ Video Source Config	User Permission General 💌 Device Name decoder 2.0
Device Config	MAC 3E:9A:1D:3F:83:3F
	Device Type 1102D
🔀 System Settings	Soft Version 2.0.0.4
	Version Date 20180124
	KernelVersion H5F3-H5F3-H5F3
	Apply

Go to Home  $\rightarrow$  Resource Management  $\rightarrow$  Decoder interface. Then check the online status of the decoder.

NVMS-2	View System Help - a x										
Add, Edit or Delete Device Configure Device Configure Area Configure Channel Group											
Device Type  Add Delete Encoding Device											
Decoder		Device Name	Output N	IP Address	Port	Online St	Edit	Delete			
Alarm Host		172.16.50.224	2	172.16.50.224	8888	Online		Ū			
Access Control System Intelligent Analysis Server		172.16.50.225	4	172.16.50.225	8888	Online					
Storage Server Media Transfer Server Access Server Alarm Server TV Wall Server											

# **10.3 TV Wall Management**

Go to Home  $\rightarrow$  TV Wall Management  $\rightarrow$  Edit TV Wall.



### 10.3.1 Configure TV Wall

#### ♦ Create TV Wall

Go to Home→TV Wall Management→Edit TV Wall. Select a TV wall server and then click + to create a TV wall.

	Create TV Wall									
TV Wall Ser	ver	TVW	all Serve	er						
TV Wall	Create T	V Wall	3							
Keyboard N	ummber	3								
Rename	Plan ID		ОК	Cancel						

#### ♦ Initializing

- ① Double click the created TV wall to prompt a TV wall window.
- (2) Click "Initialize" to create TV wall layout

NVM	<mark>\$-2.</mark> 0	Home Resource Management TV Wall Management
Edit TV Wall	Decoding on 1	IV Wall Task Configuration
TV Wall	^	TV224 🗷 Create TV Wall3 🛛
TVWall Server Un	it +	Initialize Save
I TV224(1)	Z 🗊	4 x 4TV Wall
I TV225(2)	Z 🗊	
🕮 Create TV	Wall 🖻 🔳	
		Enter Rows Cloumns
Decoder Out	put 🔷	

#### ♦ Merging\Splitting

Merging: drag on the screen and then release. The "Merge" button will be shown. Click it to merger these small windows.

Edit TV Wall Decoding on TV	/ Wall Task Configuration		Edit TV Wall Decoding on TV	Wall Task Configuration					
TV Wali 🔷	TV224 Create TV Wall3		TV Wall	TV224 Create TV Wall3					
▲ TVWall Server Unit +	Initialize Merge Save		▲ TVWall Server Unit +	Initialize Merge Save					
■ TV224(1) ② 盲 ■ TV225(2) ② 盲 ■ Create TV Walt_ ③ 目			■ TV224(1) 区官 ■ TV225(2) 区官 ■ Create TV WelL 区目						
Decoder Output			Decoder Output						
✓ Output1 E ✓ Output2 E ▲      17216.50.325									
Oviput1 🗵			Output1 🕑						

Splitting: select the merged window and click "Split" to restore the window to the previous status.

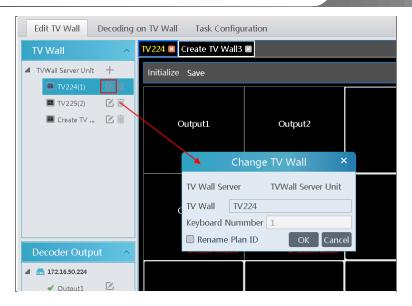
Edit TV Wall Decoding on TV	Wall Task Configura	ation		TV Wall	^	TV224 🖪 Create T	V Wall3 🗵		
TV Wall	TV224 🔲 Create TV W			🔺 TVWall Server Unit	+	Initialize Split	Save		
TVWall Server Unit     TV224(1)     C     TV225(2)     TV225(2)     TV225(2)     Create TV Wall     Create TV Wall     Create TV Wall	Initialize Split Sa			I TV224(1) I TV225(2) II Create TV Wall					
Decoder Output         ∧           ▲          1721650.224           ✓ Output1         ☑           ✓ Output2         ☑				Decoder Output	^				
▲				✓ Output2	Ľ				
Output1				IT2.16.50.225 Output1	ß				

The online decoder displayed in the decoder output list is the binding decoder of this TV wall. Drag the outputs to windows on the right in sequence and then click "Save" to save the settings.

NVMS-2.	0 â Home Res	🔀 source Management TV W	fall Management	Vie	w System Help 🗕 🗇					
Edit TV Wall Decoding of	on TV Wall Task Configur	ation								
TV Wall 🔷 🔨	TV224 🛛 Create TV Wall3 🛾	a l								
TVWall Server Unit +	Initialize Save	itialize Save								
<ul> <li>■ TV224(1)</li> <li>■ TV225(2)</li> <li>■ 1</li> </ul>										
🔳 Create TV 🗹 前	Output1	Output2								
	172.16.50.225	172.16.50.225								
	Output3	Output4								
Decoder Output ^	172.16.50.225	172.16.50.225								
4 💼 172.16.50.224										
✓ Output1										
🗸 Output2 🛛 🖉										
Interpretation of the second secon										
Output2 🗹 Output3 🗹										
≪ Output4 🖾										
Auth	entication ServerAddress:172	2.16.50 Port:6003 Us	ser Name:admin CPU	J:14% Memory:39% 20	)18-02-03 14:49:08 🤒					

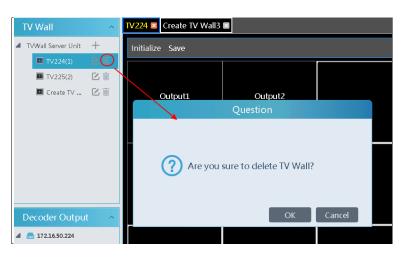
To modify TV wall:

Click Seide the TV wall name, enter the new name and then click [OK].



#### To delete TV wall:

Click behind the TV wall name.



### 10.3.2 Decoding On TV Wall

♦ Create Plan

Go to Home  $\rightarrow$  TV Wall Management  $\rightarrow$  Decoding on TV Wall  $\rightarrow$  TV Wall Plan.

	1	
Click	+	beside the TV wall name to create the TV wall plan name.

Create Plan ×								
Plan Name Create Plan_1								
Plan No. 1								
Rename Plan     OK     Cancel								

• Configure Plan

Double click the plan name to show the plan.

NVMS-2	2.0 A	Resource Manage	ement TV Wall Mana	gement 🕂		View System Hel	р <b>— व</b>
Edit TV Wall Decodi	ng on TV Wall Task	Configuration					
Preview toring Point ~	Create Plan_1 🖬						
Decorder Input 🛛 👻	5-	2	<b>5</b> 0	80	80	<b>8</b> 1	8
TV Wall Plan 🔷 🔨							
🗂 TV224 (1) 🕂 🕨 🔅	1	2	3	4	5	6	7
🛋 🛅 TV225 (2) 🛛 🕂 🕨 🔹	-	<b>`</b>	80	ēn	80	80	8
🚻 Y225 🗹 🗊	8	9	10	11	12	13	14
<ul> <li>Ⅲ Y225</li></ul>							8
P En Create I   P W							
	15	16	17	18	19	20	21
	5	•	20	80	50	80	<
	22	23	24	25	26	27	28
		1					-
	29	30	31	32	33	34	35
From 2018-02-03	50	\$u	80	50	80	80	8
To 2018-02-03 23 😳							
🗹 Manual 📕 Sensor	36	37	38	39	40	41	42
Schedu 🗹 Motion				witch Group			0
Line Cre V Intrusio	1 -49-15- Windo	ow Hide ID Save	Save as				
Record Pati Obtain 🗸	Chuncel	04:00 05:00	08:00 10:00	12:00 14:00	16:00 18:00	20:00 22:00	02-04 00:00

Drag the monitoring points to the corresponding window respectively to decode image.



#### • Toolbar Menu

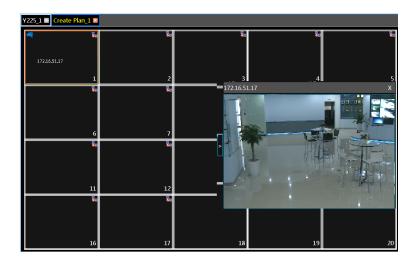


- 1. Screen mode:  $1 \leq 1 \leq 1 \leq 1$
- 2. Open Window: Click [Window] and then drag on a window to open a small window on it. Click [No Window] to stop opening window. The small window can be dragged to anywhere on the big window.

21	20
	12
16	20 17
10	
1 -4916 o Windo	Hide ID Save Save as

- 3. Click [Hide ID] to hide the window number; click [Display ID] to display the window number.
- 4. Click [Save] to save the current plan.
- 5. Click [Save as] to save it as another plan.

Double click a window to play the video.



#### Right-click Menu

<b>*</b>	5.0 	-
172.16.51.17_/	Screen Mode	1
	Zoom Out	4
	Set as Alarm Window	9
	Set As Playback	16
	PTZ Control	
	Stop Decoding	
	View Decoder	
	Clear TV Wall	7

- 1. Screen mode: 1/4/9/16 screen mode is optional.
- Zoom in\out: if the current screen mode is multi-screen display mode, click "Zoom In" to zoom in the current image. Click "Zoom Out" menu again to restore to the previous status.
- 3. Save as Alarm Window: click it to save the current window as an alarm window. The alarm linkage image will be displayed in this window. Go to Home→ Alarm Center→Alarm Linkage (or Home→Alarm System→Alarm Linkage) interface. Select TV wall linkage item to set alarm linkage.

Alarm Center Alarm Log Query Alarm Linkage Schedule Setting												
Alarm Type Ch	anne	el-Motion	De	tection	<b>~</b>	,	All ON		All OFF	Reset	Apply	
e Name		Audio	$\sim$	PTZ Co 🗸	Record	$\sim$	Alarm	~	Snapsh $\vee$	Alarm	TV Wall	Sched
	$\sim$	OFF		OFF	OFF		OFF		OFF	OFF	OFF	OFF
mera1	$\sim$	OFF		[54.86_CAM	1] TV Wal	1		_				OFF
mera2 moni	$\sim$	OFF		Selectabl	e Channe	I		Ì	Select	ed Channel	TV Wa	OFF
mera3	$\sim$	OFF		🔺 🔲 defaul	t area				🔺 🔲 defa	ult area		OFF
mera4-moni2	$\sim$	OFF		4 🗌 172.	16.51.2					2.16.51.23		OFF
mera5	$\sim$	OFF		2	00w-172.1			4	3	100w-172.1	L6 TV224	OFF
mera6	$\sim$	OFF		4 🗌 172.	16.53.38							OFF
mera7	$\sim$	OFF		1	72.16.53.3	8						OFF
mera8	$\sim$	OFF			72.16.53.3	8		>				OFF
mera9	$\sim$	OFF		1	72.16.53.3	8		~				OFF
mera10	$\sim$	OFF			72.16.53.3	8						OFF
mera11	$\sim$	OFF		<		-		-	<		• • •	OFF
mera12	$\sim$	OFF	(	Ø ON						ОК	Cancel	OFF

- 4. Set as Playback: when decoding images, click this menu to play the records of the current channel (the record source is the current record source).
- 5. PTZ Control: click this menu to prompt a PTZ control panel of the current decoding window. Direction control, zooming and focusing, Iris control, speed, preset and cruise calling can be operated through this control panel.

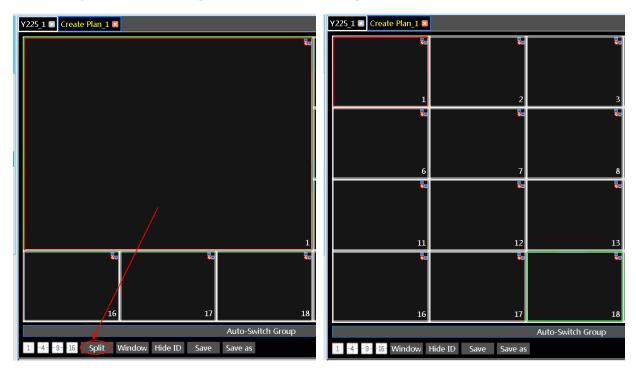


- 6. Stop Decoding: click it to stop decoding the current image.
- 7. View Decoder: view the information of the decoder.
- 8. Clear TV Wall: click it to clear the decoding configuration of the current output.
- Screen Merging or Splitting

Drag the mouse to select multi-window and then click [Merge] to merge these windows.



Select the merged window and click [Split] to restore the window to its previous status.



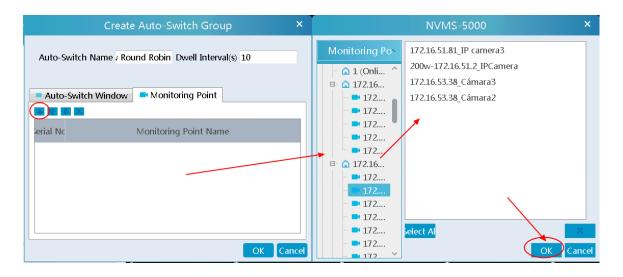
- ♦ Auto-Switch Group
- 1. Create Auto-Switch Group
  - ① Click Auto-Switch Group under the screen and then click to create auto-switch group.



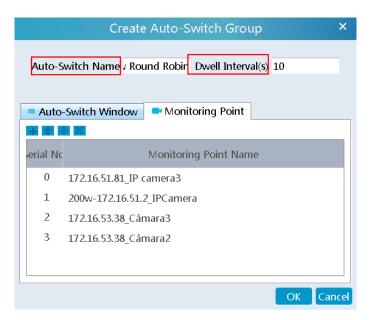
② Select "Auto-Switch Window" to select the window group.

Auto-Swi	tch Na	ame / Ro	ound	l Robin Dwel	l Interval(s) 1	0
= Auto-Sv	vitch \	Window		Monitoring	Point	
1	1	2	2	3	4	5
3	6	4	7	8	9	10
	11		12	13	14	15

③ Click "Monitoring Point" to select the auto-switch channel group.



```
(4) Enter auto-switch name and dwell time.
```



2. Execute auto-switch



Click to execute auto-switch. The specified channel images will be played in the specified windows in sequence. Click to stop playing the current auto-switch.

#### 3. Modify or delete auto-switch

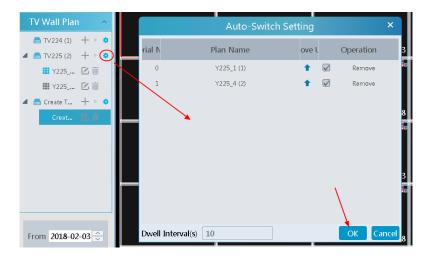
Right click the auto-switch name and then select Modify or Delete to modify or delete the auto-switch.

Note: If there are overlapped auto-switch window in a plan, the auto-switch groups will not be executed at the same time.

- ♦ Auto-switch plan
- 1. Create auto-switch plan

Click 😰 behind the TV wall plan name to set the auto-switch. Click "Join in" to select the plan. Then set dwell time and click

#### [OK].



#### 2.Start/stop auto-switch



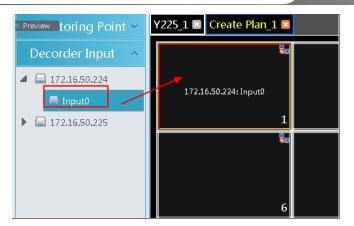
Click **b** behind the TV wall name to start auto-switch plan. Click the Stop button to stop the auto-switch.

#### 3. Modify auto-switch plan

Click again to modify the auto-switch plan. **Note**: If the current auto-switch plan needs to modify, please stop it first.

#### 10.3.3 Decoder Input

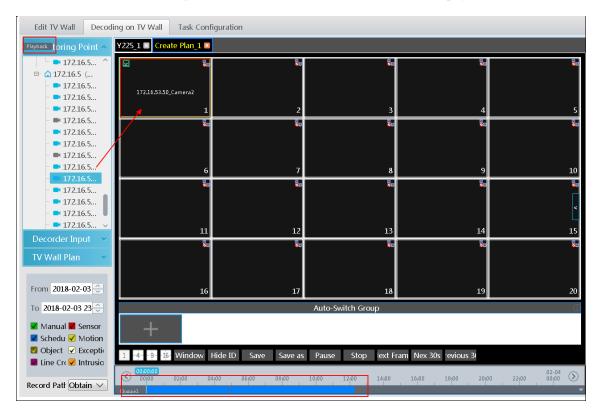
Go to Home→TV Wall Management→Decoding on TV Wall→Decoder Input. Drag an input to a window to execute decoding.



#### **10.3.4 Playback Decoding**

Playback on TV Wall

Click "Preview" on the left corner. Then this button becomes "Playback". Select "Obtain from storage server or from network device" and then click "OK" to search records, or drag the cameras (or channels) to a window to search and playback the records.



Of course, the specified time and event types can be set to search the specified records.

Playing control



During playback, the record can be controlled by the above buttons.

♦ Right-click menu

<b>*</b>	50 	20
172.16.51.17_/	Screen Mode	1
	Zoom Out	4
	Set as Alarm Window	9
	Set As Playback	16
	PTZ Control	
	Stop Decoding	
	View Decoder	
	Clear TV Wall	7

- Screen mode:  $1\4\9\16$  screen mode is optional 1.
- 2. Zoom in
- 3. Save as alarm window
- 4. Save as preview:: the current channel or the historical channel is optional.
- Playback stream type: main stream or sub stream is selectable. 5.
- 6. Stop decoding
- View decoder 7.

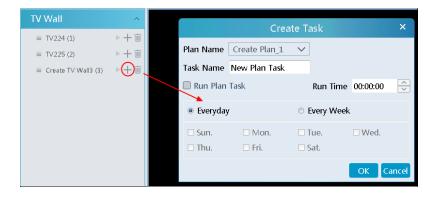
Clear TV Wall 8.

The following picture is an example of TV Wall.

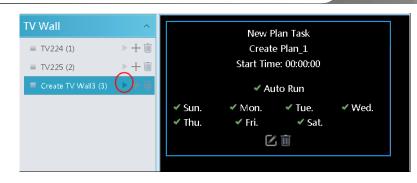


#### 10.3.5 Task Configuration of TV Wall

Go to Home  $\rightarrow$  TV Wall Management  $\rightarrow$  Task Configuration. Click  $\vdash$  behind the TV wall name. Select plan name, enter task name, set run time and enable plan task.



Click lie to start the task. Click the Stop button to stop this task.



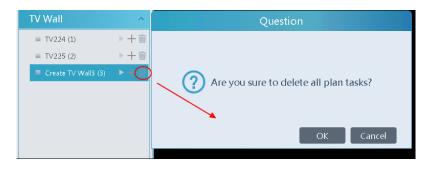
Modify or delete task

Double click the TV wall name and then the tasks will be displayed on the right window.

New Plan Task Create Plan_1 Start Time: 00:00:00					
	🗸 Auto Run				
🖌 Sun.	✓ Mon.	🗸 Tue.	✓ Wed.		
🖌 Thu.	🖌 Fri.	🖌 Sat.			



Click behind the TV wall name and then click [OK] to confirm the deletion.



# **11** Account and Permission

## **11.1 Create Account**

Go to Home $\rightarrow$ Account and Permission.

User Account Setting Configure User Permission Group							
Add Delete							
	Account	Enabled	Select Permission Group	MAC Address	Bind MAC	Edit	Delete
	admin	ON	Super Administrator	00:00:00:00:00:00	OFF		Ū
	1	ON	1	00:00:00:00:00:00	OFF		Ī

There is a default super admin user (the username is admin; the password is 123456). The super admin user cannot be deleted. Click [Add] to prompt an adding user window as shown below.

	Add User	×
Enable		
User Name*		
Password*	Enter Password	
Confirm Password*	Enter Password	
Display Password		
Permission Group*		
Bind MAC Address		
Remark		
ОК	Cancel	

Enter user name and password. Then select permission group (it must be set in advance). Binding MAC address or remark can be filled in as needed. After that, click [OK] to save.

Click to modify the added user; click to delete the added user.

## **11.2 User Permission Settings**

Go to Home  $\rightarrow$  Account and Permission  $\rightarrow$  Configure User Permission Group.

① Click [Add] to create permission group.

Permissio System	Permission Operation Permission	Edit Delete		
1 Resource Mar	agement Backup and Restore Database			
	Add Permission	n Group		
Permission Group Name				
System Permission C	peration Permission Area Permission			
Select All Reverse Clear All				
Resource Management	Server Management	🔲 Record Ma	nagement	
🔲 Alarm Management	Account and Permission	E-Map	E-Map	
TV Wall Management	Operation and Maintena	ance Management		

(2) Enter permission group name.

③ Select system permission, operation permission and area permission as needed.

Click to modify the permission group; click to delete the permission group.

# 12 Operation and Maintenance Management

# **12.1 Check and Export Log**

Go to Home→Operation and Maintenance Management.

Click the "Check and Export Log" tab as shown below. All types of logs can be searhed and exported here.

Check an	Check and Export Log Maintenance							
All Types	Alarm Log	Operation Log Config L	og Exception Log					
Start Time	30/01/2018 00:00 🔤	End Time 30/01/2018 23:59	Query Export					
No.	Main Type	Record Time	Node Name	Sub Type 🗸 🗸	User Name	User Address	Details F	
1	Log Operation	2018-01-30 13:54:40	None	System Maintenance	admin	None	Log Search	
2	Log Operation	2018-01-30 13:53:17	None	System Maintenance	admin	None	Log Search	
3	Log Operation	2018-01-30 13:52:57	None	System Maintenance	admin	None	Log Search	
4	Log Operation	2018-01-30 13:52:38	None	System Maintenance	admin	None	Log Search	
5	Log Operation	2018-01-30 13:52:35	None	System Maintenance	admin	None	Log Search	
6	Log Operation	2018-01-30 13:52:34	None	System Maintenance	admin	None	Log Search	
7	Log Operation	2018-01-30 13:52:33	None	System Maintenance	admin	None	Log Search	
8	Log Operation	2018-01-30 13:52:31	None	System Maintenance	admin	None	Log Search	
9	Log Operation	2018-01-30 13:52:30	None	System Maintenance	admin	None	Log Search	
10	Log Operation	2018-01-30 13:52:27	None	System Maintenance	admin	None	Log Search	
11	Log Operation	2018-01-30 11:53:59	None	Record, Search, Play	admin	None	Record Backup Export, C	
<							× *	

Select the log type, set the start time and the end time and then click [Query] to search logs. After the logs is searched, click [Export] to export these logs.

# **12.2 Log Maintenance**

# **13 Local Configuration**

### 13.1.1 Record and Snapshot Setting

Go to Home  $\rightarrow$  Local Configuration.

Record Path	C:/record			Browse
Backup Path	C:/backup			Browse
Snapshot Path	C:/capture			Browse
Snapshot Number	5 ~			
Max File Size for Ma	nual Recording And Record Backup	● 512MB	O 1GB	⊖ 2GB

In this interface, record path, backup path, snapshot path, snapshot number and max file size for manual recording and record backup can be set up here.

#### 13.1.2 System Startup and Maintenance

Go to Home $\rightarrow$ Local Configuration $\rightarrow$ System Startup and Maintenance.

Auto Reboot and	Login		
🗌 Auto Login	🗌 Auto Startup		
■ PC Auto Reboot	:		
User Name		Interval(day)	1 ~
Password		Reboot Time	00:00:00

Auto Login: if enalbed, the system will automatically log in when running this software next time.

Auto Startup: if enabled, the system will automatically start when the computer starts.

PC Auto Reboot: enter the username, password, interval day and reboot time. If it is enabled, the PC will automatically reboot.

#### 13.1.3 Overload Setting

This system support CPU and memory overload protection. When the system overloads, the monitor client will restrict the new live view and playback operation and the overload tip will prompt. Go to Home  $\rightarrow$  Local Configuration  $\rightarrow$  Overload Setting. Select the overload upper limit and then click [Apply] to save the settings.



#### 13.1.4 Hardware Decoding Setting

Go to Home→Local Configuration→Hardware Decoding Setting. If "Enable GPU Decoding" is checked, the preview performance will be improved.

Hardware Decoding Setting
Enable GPU Decoding
ОК

# **14 Intelligent Management**

Before using intelligent functions, please confirm the intelligent analysis server has been already created and it is online. Go to Home $\rightarrow$ Resource Management $\rightarrow$ Intelligent Analysis Server. There is a default intelligent analysis server. Please make sure the server is online.

Add, Edit or Delete Device	e Configu	re Device Configure A	rea Configure	Channel Gro	up					
Device Type 🛛 🔿	Add	Add Delete								
Encoding Device										
Decoder		Server Name	IP Address	Port	Client Con	Authentic	Edit	Delete		
Alarm Host		Analysis Server Unit	127.0.0.1	6069	Online	Online		Ū		
Access Control System			127.0.0.1	0000	0	0	<u></u>			
Intelligent Analysis Server										
Storage Server										
Media Transfer Server										

Users can also add a new intelligent analysis server. Click [Add] and then click [Refresh] to quickly search the server in the same local network as shown below. Click the "Manually Add" tab to manually add the IP address and port of the server.

Add, Edit or Delete Device	Configur	e Device	Configure Area	Configu	ire Channel Group	
Device Type	Add	elete				
Encoding Device	$\sim$					
Decoder				Add]	ntelligent Analysis Server	×
Alarm Host	Quickly A	dd Manu	ally Add			Refresh
Access Control System	Quickiy A		▲			
Intelligent Analysis Server		IP Ac	ddress	Port		
Storage Server						
Media Transfer Server						
Access Server						
Alarm Ser ver						

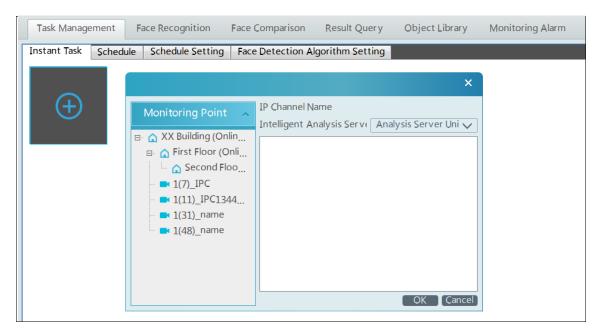
## **14.1 Face Recognition**

#### 14.1.1 Task Management

Go to Home  $\rightarrow$  Face Recognition  $\rightarrow$  Task Management  $\rightarrow$  Instant Task.

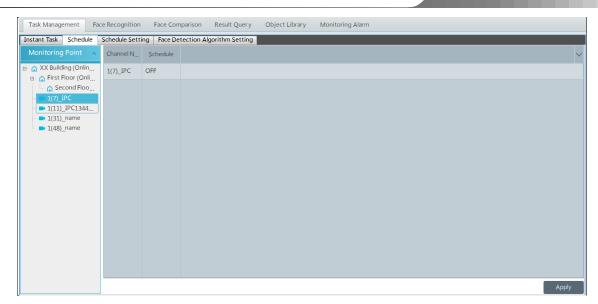
Click the Plus button to add instant task. Then select the monitoring points and intelligent analysis server. After that, click [OK] to save the settings.

Note: The selected monitoring point must be the cameras with the face detection functions.



Set the schedule by going to Home→Face Recognition→Task Management→Schedule.

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7\*24 and 5\*24 are the default schedules. Other schedules also can be set up (See Schedule Setting).

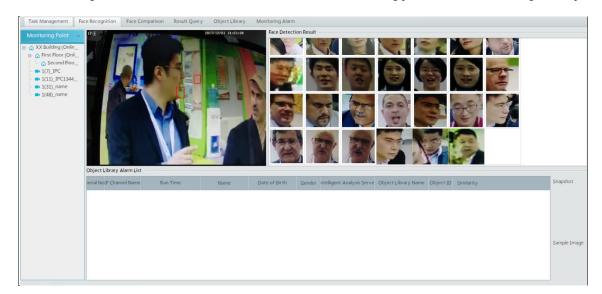
Instant Task	Schedule	Schedule Se	etting Fa	ce Detection Algorithm Setting
Add	Delete			
	Schedule	Edit	Delete	
	7*24			
	5*24			
	1			

Go to Home  $\rightarrow$  Face Recognition  $\rightarrow$  Task Management  $\rightarrow$  Face Detection Algorithm Setting. In this interface, face similarity, alarm holding time and alarm output can be set up here.

Instant Task	Schedule	Schedule Setting	Face Detection Algorithm Setting
Similarity Alarm Holdin 🔲 Alarm Out		nd V	
			ОК

#### **14.1.2 Face Recognition**

Go to Home -> Face Recognition. In this interface, double click the camera (or monitoring point) to view the live image and capture faces.



Intelligent Analysis Add Target Add Multiple Targets			
Analysis Server Unit No. Name Date of Bin	th Gender ID Type	ID NO. Native Place Priority	Remark
1 1 1918-1-1	Female ID Card	L1-11Normal	1
NVMS-5000	Open Correction → Dictures	•	Search Pictures
	Organize 🔻 New folder		E - 🔳 🔞
	Arrorites     Desktop     Downloads     Recent Places     Downloads     Downloads     Downloads     Downloads     Downloads     Documents     Downloads     Documents     Documents     Documents     Documents     Documents     Music     Documents     My Rictures	Pictures library Includes: 2 locations	Arrange by: Folder •
	<ul> <li>Public Pictures</li> <li>Videos</li> </ul>		
Name     Date of Bir 1918Yet ✓ 1Mor       Country     Province       ID Type     ID Card       V     ID NO.	-		
Remark	File name:		▼ Image Files(*.jpg *.png *.gif) ▼ Open Cancel

If there is a face needed to trace, please create an object library and edit it by going to Home $\rightarrow$ Object Library.

Return to the face recognition interface. If the face specified in the object library appears and captured by a camera, alarms will be triggered.

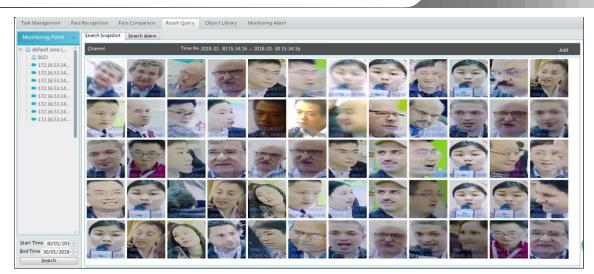
### 14.1.3 Face Comparison

Go to Home  $\rightarrow$  Face Comparison. In this interface, click the grey square to select a face and set the similarity. Then click "Search" to the similar face.

Task Management	Face Recognition Face Co	mparison Result Query	Object Library	Monitoring Alarm	
Intelligent Analys	Selecting picture,				
black11 Vip	Similarity 80				
	Search Result				Search

#### 14.1.4 Result Query

Go to Home  $\rightarrow$  Result Query. Select the camera with face detection function and then set the start time and the end time. After that, click [Search] to search the captured face and alarm result.



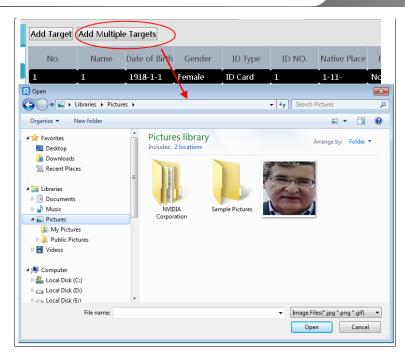
Task Management Fac	ke Recognition Face Comparison Result Query Object Library Monitoring Alarm	
Monitoring Point	Search Snapshot Search Alarm	
Monitoring Point            □         △ default area (            □         □ 172165314            □         172165314            □         172165314            □         172165314            □         172165314            □         172165314            □         172165314            □         172165314            □         172165314            □         172165314	Search Snaphol         Search Alarm           Channel         Time Pri 2018-01-30 15:34:16 ~ 2018-01-30 15:34:16	Add
Start Time 30/01/201 End Time 30/01/2018		

## 14.1.5 Object Library

Create and edit object library by going to Home $\rightarrow$ Object Library.

Task Management	Face Recognition	Face Comparison	Result Query	Object	Library	Monitoring Al	arm			
Intelligent Analysis ^	Add Target Add M	Multiple Targets								
Analysis Server Unit	No. Ná	ame Date of Birt	h Gender	ID Type	ID NO.	Native Place	Priority	Remark		
1	1 1	1918-1-1	Female II	) Card	1	1-11-	Normal	1		×
				aries 🕨 Picture	ıs ►			▼ <b>∮</b> Search Pi	ictures	2
			Organize 🔻 New	folder					<b>•</b> •	0
Ð			<ul> <li>★ Favorites</li> <li>Desktop</li> <li>Downloads</li> <li>Recent Places</li> <li>⇒ Libraries</li> <li>&gt; Documents</li> <li>&gt; Music</li> <li>&gt; Pictures</li> <li>&gt; Public Pictures</li> <li>&gt; Public Pictures</li> <li>&gt; Videos</li> </ul>	5	Includ	vidual and a second sec	mple Pictures	Ar	range by: Folder ▼	
Name Country ID Type ID Can Remark	Date of Bir 1 Province rd V	L918Ye; ∨ 1Mor	<ul> <li>▲ ➡ Computer</li> <li>▶ ▲ Local Disk (C:)</li> <li>▶ → Local Disk (D:)</li> <li>▶ → Local Disk (E:)</li> </ul>	ile name:	-			✓ Image File	s(*.jpg *.png *.gif)	•
Remark								Open	Cancel	

Adding multiple targets:



#### 14.1.6 Monitoring Alarm

In monitoring alarm interface, all alarm information of the intelligent analysis servers can be searched.

Serial No.	IP Channel Name	Run Time	Name	Date of Birth	Gender	Intelligent Analysis Server	Object Library Name	Object ID	Similarity	
1	51.34	2018/02/07 10:04:21	Li Lei	1968/01/01	Male	ASU	VIP	1	23.1%	
2	51.34	2018/02/07 10:04:30	Li Lei	1968/01/01	Male	ASU	VIP	1	22.3%	
3	51.34	2018/02/07 10:06:40	Li Lei	1968/01/01	Male	ASU	VIP	1	49.2%	
4	51.34	2018/02/07 10:06:40	Li Lei	1968/01/01	Male	ASU	VIP	1	49.2%	Li test
5	51.34	2018/02/07 10:07:17	Li Lei	1968/01/01	Male	ASU	VIP	1	52.9%	

# **14.2 People Counting**

#### 14.2.1 Task Management

Go to Home  $\rightarrow$  People Counting  $\rightarrow$  Task Management. Double click the camera with the people counting function and then select intelligent server. After that, click [OK] to create this instant task.

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NVMS-2.0	Home Face Recognition Peo	Pipe Counting		
Task Management Real-time Stati	stics Summary Statistics Histo	orical Statistics		
Monitoring Point 🔷 rial N	IP Channel Name	Intelligent Analysis Server	Modify	Delete
- 🖸 default area (Onlin 🏠				
□ 172.16.51.17 (On				
■ 172.16.51.17				
-	NVMS-5000	×		
■ 172.16.51.81 (On	14 41415-5000			
- 172.16.51.81_1				
- 172.16.51.29 (On	IP Channel Name IPCamera			
- 172.16.51.24 (On	Tabell's and the shorts of the shorts of			
□ 172.16.51.23 (On	Intelligent Analysis Se Analysis Se	erver ( V		
■ 100w-172.16		Cancel		
172.16.51.21 (On		Cancer		
□- 🏠 172.16.51.2 (Onli				
- 200w-172.16				
- 🛕 172.16.51.19 (On				
– 🏠 1 (Online/Total				
🖻 🏠 172.16.53.38 (On				
- 🛋 172.16.53.38				
172.16.53.38				
172.16.53.38				
172.16.53.38				
■ 172.16.53.38_I				
□ 172.16.53.34 (On				
■ 172.16.53.34				
■ 172.16.53.34				
- 172.16.53.34				
- <b>•</b> 172.16.53.34				
- <b>1</b> 72.16.53.34				
··· • 1/2.10.55.54 🗸				

### 14.2.2 Real-time Statistics

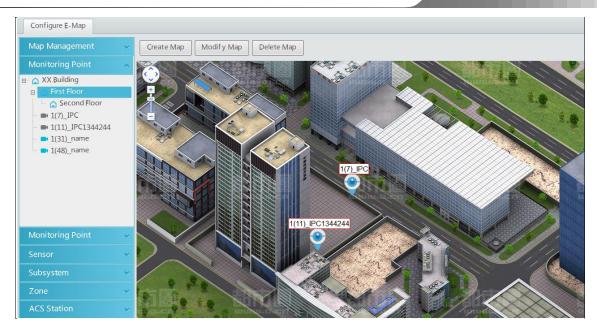
Go to Home  $\rightarrow$  People Counting  $\rightarrow$  Real-time Statistics. Double click the camera with the people counting function to view the live image. The camera will automatically count the entering and leaving people and the system will automatically analyze the day and month passenger flow trends.

Task Management       Rel-time Statistic       Summary Statistic       Historical Statistics         Monitoring Point       Intrace Roople Counting 4       Leaving People Counting 2       Day Passenger Flow Trend         Image: Contract State Contract People Counting 4       Leaving People Counting 2       Day Passenger Flow Trend         Image: Contract People Counting 4       Leaving People Counting 2       Day Passenger Flow Trend         Image: Contract People Counting 4       Leaving People Counting 2       Day Passenger Flow Trend         Image: Contract People Counting 4       Leaving People Counting 2       Day Passenger Flow Trend         Image: Contract People Counting 4       Leaving People Counting 2       Day Passenger Flow Trend         Image: Contract People Counting 4       Leaving People Counting 4       Day Passenger Flow Trend         Image: Contract People Counting 4       Leaving People Counting 4       Day Passenger Flow Trend         Image: Contract People Counting 4       Leaving People Counting 4       Day Passenger Flow Trend         Image: Contract People Counting 4       Leaving People Counting 4       Day Passenger Flow Trend         Image: Contract People Counting 4       Leaving People Counting 4       Day Passenger Flow Trend         Image: Contract People Alam Threshold Value 1       Day Passenger Flow Trend       Image: Contract People Alam Threshold Value 1         Im	NVMS-2.0	Home TV Wall Management Resource Management People Countin	, <b>+</b>	View System Help — 려 🗙
Importantion of the set	Task Management Real-ti	ne Statistics Summary Statistics Historical Statistics		
■ 172.165.33 4 通… ■ 172.165.165.165.165.165.175.165.165.165.175.175.175.175.175.175.175.175.175.17	Monitoring Point           □         △ default area (Online/           □         ∩ 172.165.117 (pci           172.165.117 (pci         172.165.117 (pci           □         ∩ 172.165.181 (pnil           □         ∩ 172.165.181 (pnil           □         ∩ 172.165.181 (pnil           □         ∩ 172.165.181 (pnil           □         ∩ 172.165.143 (pnil           □         ∩ 172.165.12 (pnil           □         ∩ 172.165.33 (pnil	172.16.51.17 ipcamera       Entrance People Counting 4         U2/05/2018 12:01:33 Ipcamera       Ipcamera         U2/05/2018 12:01:33 Ipcamera       Ipcamera         Image: Counting Council and Council an		bode companying the set of the se
ITZ.16.53.34 通…	- 1/2.10.33.34 <u>)</u> H			

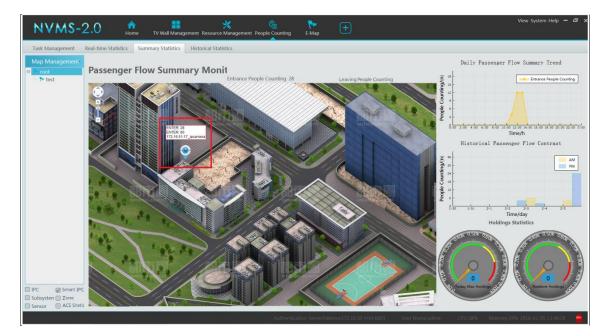
### 14.2.3 Summary Statistics

Go to Home  $\rightarrow$  People Counting  $\rightarrow$  Summary Statistics.

Before setting summary statistics, please set E-Map by going to Home  $\rightarrow$  E-Map  $\rightarrow$  Configure E-Map first. Drag the camera with the people counting function to the specified area.

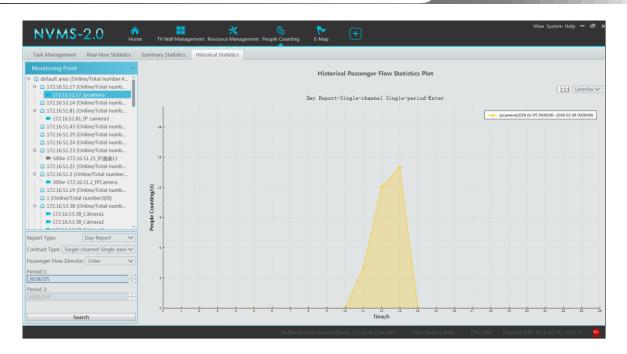


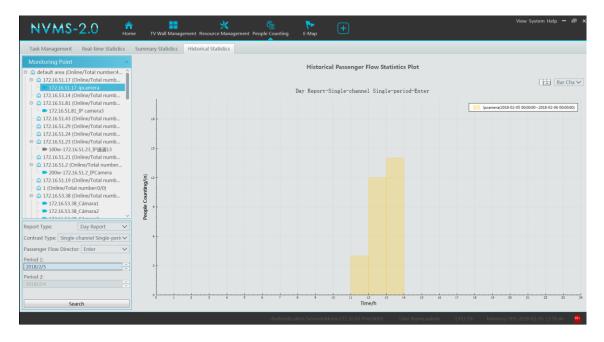
Then return to the summary statistics interface. The results of summary statistics of the specified multi-channel can be viewed.



#### **14.2.4 Historical Statistics**

Go to Home  $\rightarrow$  People Counting  $\rightarrow$  Summary Statistics. In this interface, the statistic results in a long period of time can be searched which can be shown in histogram or curve chart.





### **14.3 Access Control Management**

Before using access control management system, please make sure whether the access server is online.

Go to Home  $\rightarrow$  Resource Management  $\rightarrow$  Access Server. There is a default access server which can be modified. Please confirm its online status.

Add, Edit or Delete Device	Configu	re Device Config	jure Area Co	onfigure Char	nel Group						
Device Type 🔷 🔿	Add	Delete									
Encoding Device Decoder		Server Name	IP Address	Port	Subsyste	Zone Nu	Client Co	Authentic	Edit	Delete	
Alarm Host Access Control System		Access Server	127.0.0.1	6013	0	0	Online	Online			
Intelligent Analysis Server Storage Server											
Media Transfer Server											
Access Server Alarm Server											
TV Wall Server											

A new access server can be added by auto search or manual adding.

Add, Edit or Delete Devic	e Configu	re Device Configure Ar	ea Config	ure Channel Group		
Device Type 🔷 🔨	Add	elete				
Encoding Device						_
Decoder				AddAccess Server	×	te
Alarm Host	Quickly A	dd Manually Add			Refresh	T
Access Control System		A				
Intelligent Analysis Server		IP Address	Port			
Storage Server						
Madia Transfor Sorver						

Then add access control system. Go to Home $\rightarrow$ Resource Management $\rightarrow$ Access Control System. Then click "Add" to add. Currently, the software only supports the access control system of ZK Technology and KonNaD.

NVMS-2	2.0	Ame Home	TV Wall Mana	gement Resourc	e Management	People Counti	ng E-Map	+			View System Help	- @ x
Add, Edit or Delete Devic	ce Config	jure Device	Configure Are	a Configure	Channel Group							
Device Type 🔷 🔨	Add	Delete										
Encoding Device Decoder		System N	Туре	IP Address	Port	Edit (	Delete					
Alarm Host Access Control System		ZK	ZKTeco	110.80.38.74	8070		Ū					
Intelligent Analysis Server		menjin	ZKTeco	110.80.38.74	8070							
Storage Server Media Transfer Server					AddAd	cess Contro	ol System		×			
Access Server		Device N	ame IP Addr	ess Port	User Name	Password	Protocol	Delete				
Alarm Server TV Wall Server												
		Selec	t Access Server	Join Server Uni	it 🗸			1	OK Cancel			
						Auth	entication Serve	rAddress:172.1	6.50 Port:6003 User Nam	ne:admin CPU:10%	Memory:40% 2018-02-05 13:57:	16 🤷

### 14.3.1 Remotely Open the Door

Go to Home $\rightarrow$ Access Control Management.

The access control devices are listed as shown below. Double click a device to display the doors controlled by this device.

NVMS-2.0	) 🏫 Home	TV Wall Management	X Resource Management P	eople Counting	P E-Map	Access Control Management	+		View System Help 🗕 리 🗙
Open the Door Remotely	Alarm Linkage	Log Query E-Map AC	S						
Arcess Control Device     0       ■     100.00       ■     192.168.120       ■     192.168.120       ■     192.168.120       ■     192.168.120       ■     192.168.120       ■     192.168.120       ■     192.168.120       ■     192.168.120       ■     192.168.120	-		Refresh Status	2.168.1.202-4					
				Authenticatio	n ServerAdo	iress:172.16.50 Port:6003	User Name:admin	CPU:12% Memory:3	9% 2018-02-05 13:58:30 🛛 🤷

Double click a door icon to view the detailed information of this door. The door can be opened or closed remotely in this interface by clicking the corresponding buttons.

Copen Door	NO ENC C	Refresh Status	
192.168.1.202-1	192.168.1.202-2	192.168.1.202-3	192.168.1.202-4
	Access Co	ontrol Detail	×
192.168.1.202-1	Door Na Connection Sta Door Magnetic Sta Alarm Sta	atus: Unknown	
Open Door	NO 🗗 NC	C Refresh Status	

### 14.3.2 Alarm Linkage

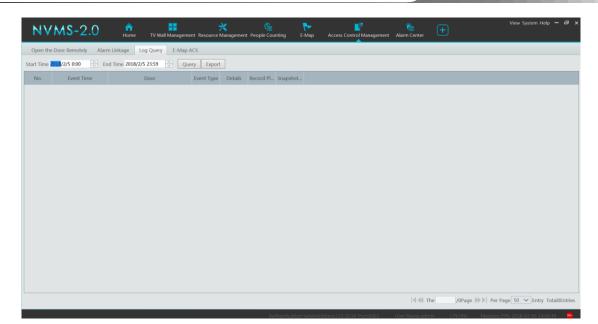
Go to Home  $\rightarrow$  Access Control Management  $\rightarrow$  Alarm Linkage. In this interface, the alarm linkage related to the door can be set up.

pen the Door Remotely	Alarm Linkage Lo	g Q	Jery E-N	lap ACS								
cess Control System 🔷	All ON	All (	DFF		Apply							
K nenjin	Device Name		Audio 🗸	PTZ Co 🗸	Record 🗸	Alarm 🗸	Snapsh 🗸	Alarm 🗸	TV Wall 🗸	Schedule 🗸		
	10.0.0.100-1	~	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	10.0.0.100-2	~	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	10.0.0.100-3	$\sim$	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	10.0.0.100-4	~	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	192.168.1.120-1	$\sim$	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	192.168.1.120-2	~	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	192.168.1.202-1	$\sim$	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	192.168.1.202-2	~	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	192.168.1.202-3	~	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	192.168.1.202-4	$\sim$	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	192.168.1.188-1	~	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	192.168.1.188-2	$\sim$	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		

### 14.3.3 Log Query

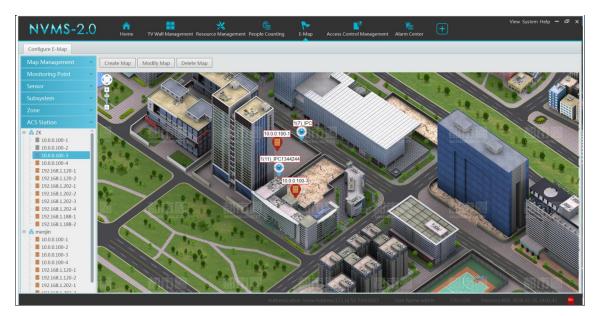
Go to Home  $\rightarrow$  Access Control Management  $\rightarrow$  Log Query.

The alarm information of the access control devices in a long period of time can be searched in this interface.



#### 14.3.4 E-Map ACS

Before setting E-Map ACS, the E-map shall be set first by going to Home  $\rightarrow$  E-Map  $\rightarrow$  ACS Station. Drag the ACS devices to the specified location of the E-map for monitoring.



Return to Home  $\rightarrow$  Access Control Management  $\rightarrow$  E-Map ACS interface to view the current status of these access control devices.



# **14.4 Attendance Management**

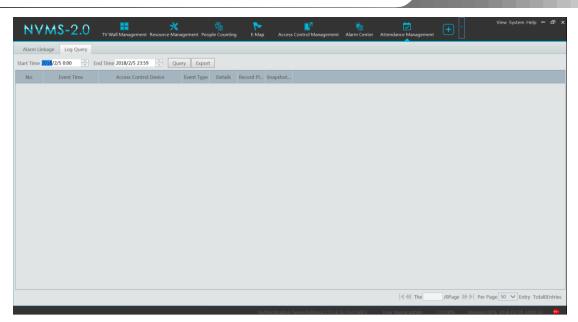
## 14.4.1 Alarm Linkage

Go to Home→Attendance Management→Alarm Linkage. In this interface, the access control device linkage configuration can be set up.

Alarm Linkage Log Query		_	ource Manage					trol Managem			
Access Control System	All ON	All OFF	Reset		7						
ZK menjin	Device Name	Audio 🗸	PTZ Co 🗸	Record ~	Alarm 🗸	Snapsh 🗸	Alarm 🗸	TV Wall 🗸	Schedule $\vee$		
,											

### 14.4.2 Log Query

Go to Home  $\rightarrow$  Attendance Management  $\rightarrow$  Log Query. In the log query interface, the information of attendance devices in a long period of time can be checked.



# **14.5 Parking Lot Management**

Parking lot management module must be used with traffic picture capture cameras. Vehicle monitoring, management and search can be realized through parking lot management system.

# 14.6 Environment Monitoring

Environment monitoring shall be used associated with alarm host related to environment monitoring. The dynamic state of the real-time environment could be monitored by this system.

# 15 Web Client

#### **15.1** Operating Environment of Web Client

The web client supports IE9/IE10/IE11, Firefox or Google browser. Please make sure that your browser supports the downloading and use of the Web Client. Here we take IE Client for example.

> Checkup whether the IE browser prohibits Active X control from downloading:

Open IE browser, click  $\therefore$   $\rightarrow$  Internet Options  $\rightarrow$  Security  $\rightarrow$  Custom level...to pop up a security settings window. Then enable all sub options under "Active X controls and plug-ins".

> Checkup whether there are other components or antivirus to stop downloading Active X control. Please close other components and configure antivirus and firewall to allow the installation of the files named NetLiveMonitor.exe and NetPlayback.exe.

#### 15.2 Start IE Client

Before starting IE client, make sure all servers must be started first.

#### Login

Input the IP address or domain name of Authentication Server and the web server port, for example: http://192.168.50.3:8088 (In this example, IP address is 192.168.50.3. The default web server port is 8088) to go to IE Client. Then input the user name and password you created in Account and Permission interface, select the language and platform and then click "Login" to login to the IE client.



Please download the relavant Active X controls according to the tips if you login to the IE client for the first time.

In the platform interface, users can modify the login password and remotely set the monitor client and configuration client. In the web monitor client, click "Return to Configuration" to go to the web configuration client. In the web configuration client, click "Return to Monitor" to go to the web monitor client. In the web monitor client or configuration client, click "NVMS-5000" to return to the platform interface.

The operation steps of this web client interface are similar as the monitor client. Please refer to relevant chapter for details.

# **16** Troubleshooting

#### 1. How to modify the password by yourself?

Login monitor client and then go to the Account and Permission interface. Select the account and click 🗹 to modify the password.

Modify User	×
Enable 🕢	
User Name* 1	
Password*	
Confirm Password*	
Display Password	
Permission Group* 1	
Bind MAC Address 00 : 00 : 00 : 00 : 00 : 00 : 00	
Remark	
OK Cancel	

#### 2. Unable to login IE client.

1) Please checkup whether the Active X control is forbidden to download and refer to the operating environment in Operating Environment of Web Client.

2) Please checkup whether the IP address input in the browser address bar is right.

Suppose the LAN IP address of the authentication server is 192.168.50.3, WAN IP address is 58.251.86.194, domain name is authentication.meibu.com and Web port is 8088. If logging in to the IE client in LAN, please input http://192.168.50.3:8088, or http://58.251.86.194:8088, or http://s8.251.86.194:8088, or http://s8.251.86.194:8088 (only when the WAN IP is a fixed IP, will it take effect).

#### 3. Some service works abnormally after all servers start.

- 1) If the database works abnormally, please checkup whether the MYSQL database is installed and connected successfully.
- 2) The computer needs to restart after installing the servers.
- 3) If other services work abnormally, please checkup whether the corresponding port is occupied. Please open the task manager and then click the Service tab to check.

#### 4. The device information cannot be seen or the device is offline after the user logins to the monitor client.

- 1) Please checkup whether this user account is an administrator account. If this account is an operator account, please checkup whether it has the authority to view the device information.
- 2) Please checkup whether the media transfer server of the device has been started.

#### 5. The alarm information cannot be received after the user logins to the monitor client.

1) Please checkup whether the schedule of sensor alarm, motion detection alarm and so on are set in the NVMS system.

2) As for remote login device in the monitor client, please checkup whether alarms and alarm schedules of the remote login device have enabled.

#### 6. The images of online decoders cannot be seen after the user logins to the TV Wall client.

- 1) Please checkup whether the user has the authority to access the decoders.
- 2) Please checkup whether the TV wall service is online.
- 3) If the TV wall server is online, please checkup whether the decoder is online. If the both are online, please checkup the account logged on has the corresponding decoding permission.

#### 7. The record cannot playback after the user logins to the monitor client.

1) Please checkup whether the storage server is online. If it is online, please checkup whether this account logged on has playback permission.

2) Please checkup whether the record source selected has record data. If you want to get record data from a storage server, please

checkup whether to set the record schedule of the storage server or not.

3) Checkup whether there are record data in the playback channel and whether the record source and the start time and the end time of the playaback is set up correctly.

4) Please checkup the record schedules of the storage server are set correctly.

#### 8. The configuration of devices cannot be modified remotely after the user logins to the monitor client.

1) When the device configuration is required by the monitor client and prompt "Someone is configuring. Please try later", please open the IE browser to login to the device remotely and then go to "Info"  $\rightarrow$  "Online user" interface to see if there are any other users logging in.

- Please go to the live to see whether the device is setting up.
- 3) If the problem still exists, please contact your device manufacturer.

#### 9. The preview image on the client cannot display fluently.

1) Please check whether the CPU occupancy rate of the client platform is 100% or there still has usable memory. This situation will not emerge when the CPU occupancy rate is less than 75% and there still has usable memory.

2) Please checkup whether the network environment is supported, including whether the uplink bandwidth of the device and stream match and whether the downlink bandwidths of the media transfer server and the streams of all channels of devices match.

3) Please checkup whether the media transfer server is overload operation.

#### 10. After starting the authentication server and media transfer server, the storage server still cannot save.

1) Please checkup whether channels of devices are added to the storage server.

#### 11. Why does the PTZ control interface is blank after the user goes to the monitor client?

You need to drag channels to the live preview area and then operate in the PTZ control interface.