# Network Video Manage System

# User Manual

# About This Document

## Instruction

Please pay attention to the following instruction before you use this manual.

- This document is intended for Network Video Manager System operators.
- This user manual describes the operation method of Network Video System in detail.
- Please read this manual carefully before operation, according to the method and step of the manual install and use the system.

## Intended Audience

This document is intended for:

- Technical support engineers.
- Maintenance engineers
- Network Video Manger System operators

## Symbol conventions

The symbols that may be found in this document are defined as follows:

| Symbol | Description |
|---|---|
| DANGER | Alerts you to a high risk hazard that could, if not avoided. |
| WARNING | Alerts you to a medium or low risk hazard that could, if not avoided, result in moderate or minor injury. |
| CAUTION | Alerts you to a potentially hazardous situation that could, if not avoided, result in equipment damage, data loss, performance deterioration, or unanticipated results. |
| TIP | Provides a tip that may help you solve a problem or save time. |
| NOTE | Provides additional information to emphasize or supplement important points in the main text. |

## Change History

Changes Between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

## Special Notice

When using video surveillance products, comply with applicable statutory and regulatory requirements to enable and maintain surveillance devices. It is illegal for a company or person to install surveillance devices in an office to monitor employees outside the scope of the local laws, or to use surveillance device to invade other people’s privacy with illegal purposes.

# Contents

# 1 Install and Uninstall

## 1.1 Abstract

Network Video Manager System mainly applies to Surveillance Solution of small and medium-sized enterprises. Installation and application of this system is simply, realize the basic function of security required, such as Live Video, Alarm Manager, playback, PTZ control and intercom function, particularly suitable for the monitoring sites of community, parking lot, factories, mine, middle and primary schools, shopping malls supermarkets and small enterprises.

**System requirement**

Operation System: Microsoft Windows 2000/XP or higher.

CPU: Inter Core i3 or higher.

Memory Size: 2G or higher.

Display: support 1024*768 or higher.

## 1.2 Install the Network Video Manager System

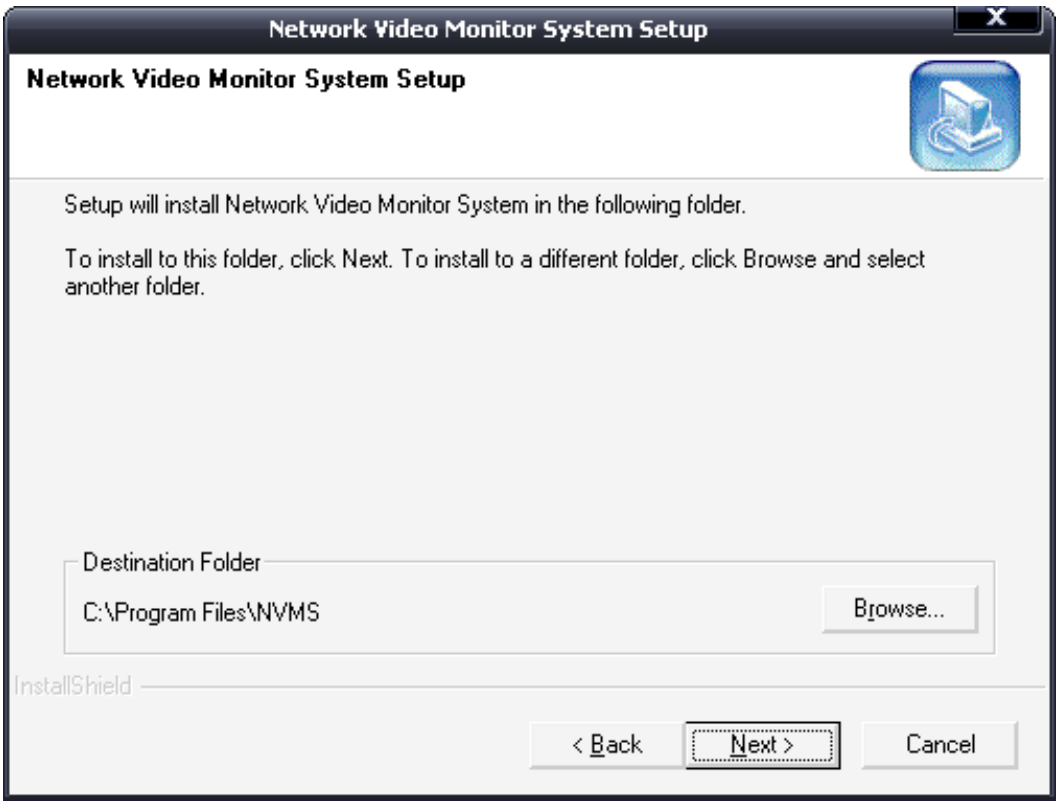
Installation procedure is as follows:

**Step 1** Double click the Setup exe, will pop-up the installation confirmation dialogue box, Figure 1-1 is shown as follows:

Figure 1-1 Installation confirmation dialogue box

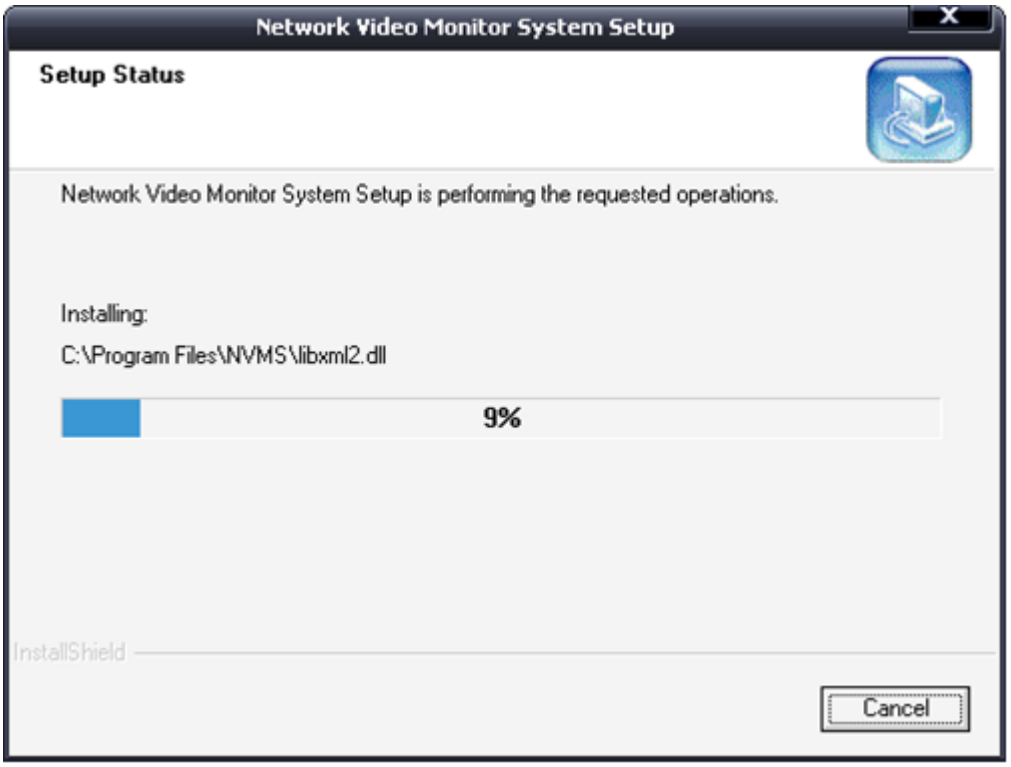

**Step 2** Click “next”, pop-up the installation dialogue box shown in Figure 1-2. Select the installation location, the default path is “C:\Program Files\NVMS”, click “Browse” to select new installation path.

Figure 1-2 Installation dialogue box




**Step 3** Click “Next”, pop-up the Setup status dialogue box shown in Figure 1-3.

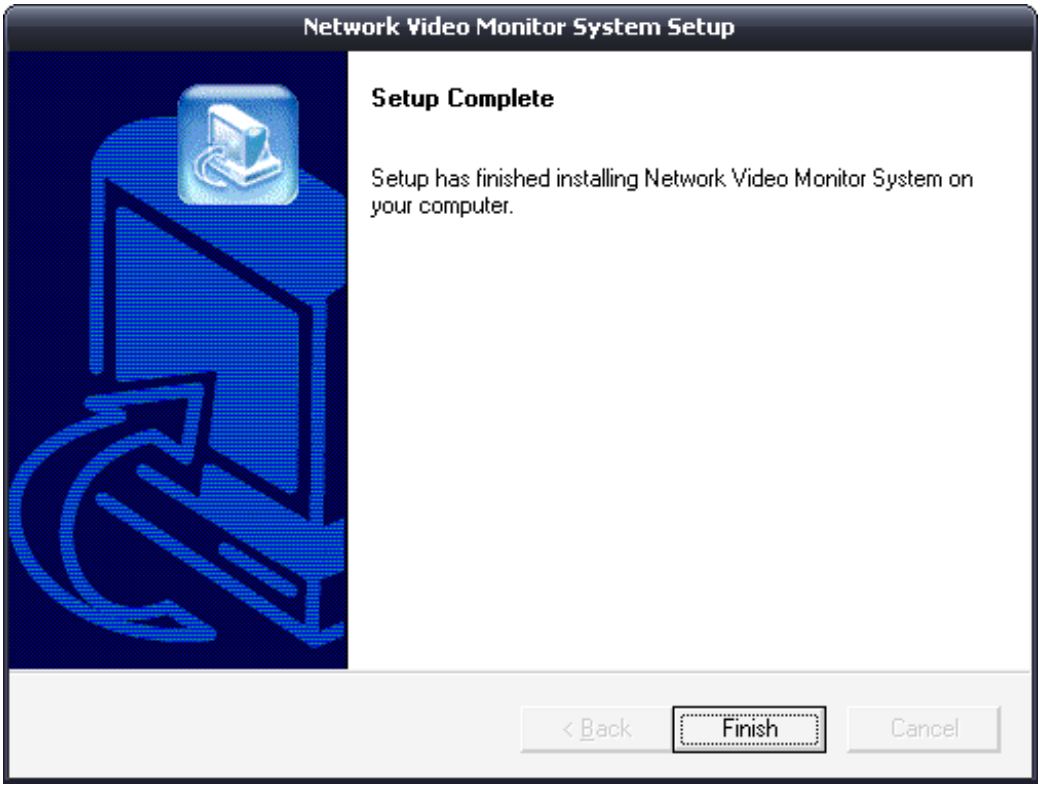
Figure 1-3 Setup Status dialogue box




**Step 4** Click “Finish”,

The client-side will be installed in default directory. Figure 1-4 shows the Setup Complete dialogue box.

Figure 1-4 Setup Complete dialogue box




**----End**

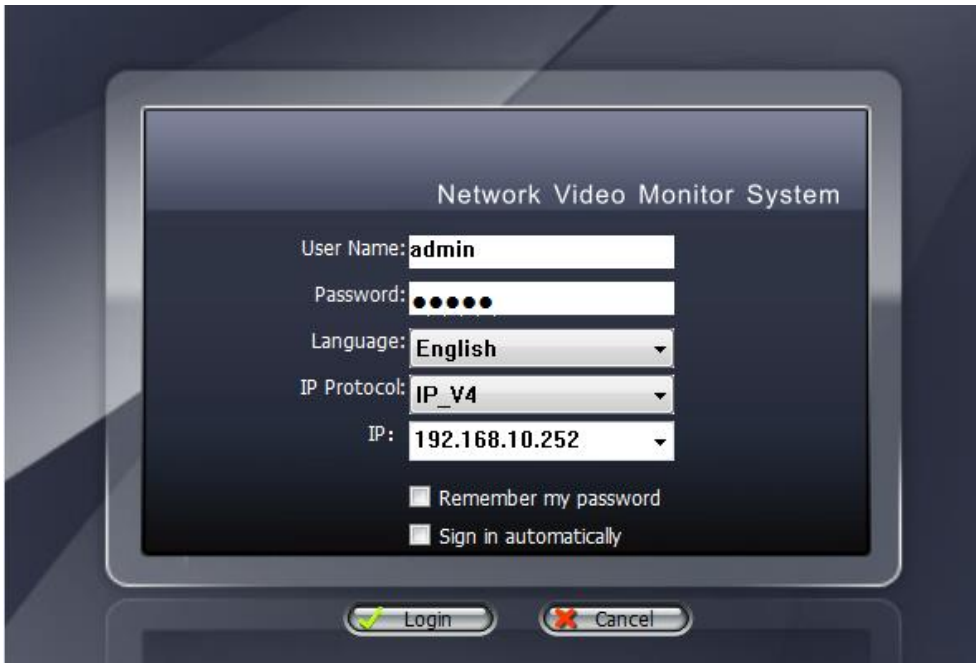
# 2 Live Video

## 2.1 Login and logout System

**Login**

**Step 1** Click the  on the desktop, pop-up login user interface shown in Figure 2-1.

Figure 2-1 Login user interface




**Step 2** Input the User Name and Password.

**Step 3** Respectively select values from the drop-down list boxes of “Language”, “IP Protocol” and “IP”.

IP: client software used by the local IP address, on the case of Multi-NIC the client-side bind the IP address of fixed NIC.

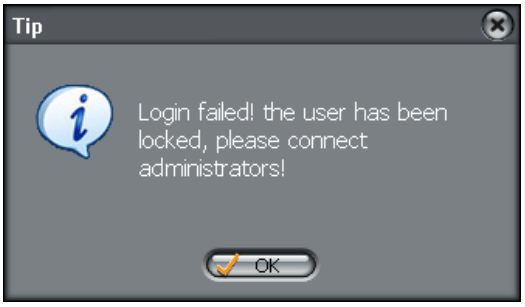
**Step 4** Click the “Login”,

The main page of Network Video Manager System is displayed.

**NOTE**

- The default system super user and password are both “admin”. User name and password are case-sensitive. Please change the password when you login the system for the first time to ensure system security.
- If you enter an incorrect password for three consecutive times, your account is locked, as shown in Figure 2-2. Before unlocking the locked account will not be allowed to login. If you need to unlock, the super user must log on the client t, then choose system Manager > privileges > User” into the user interface to unlock.

Figure 2-2 User locked interface



**----End**

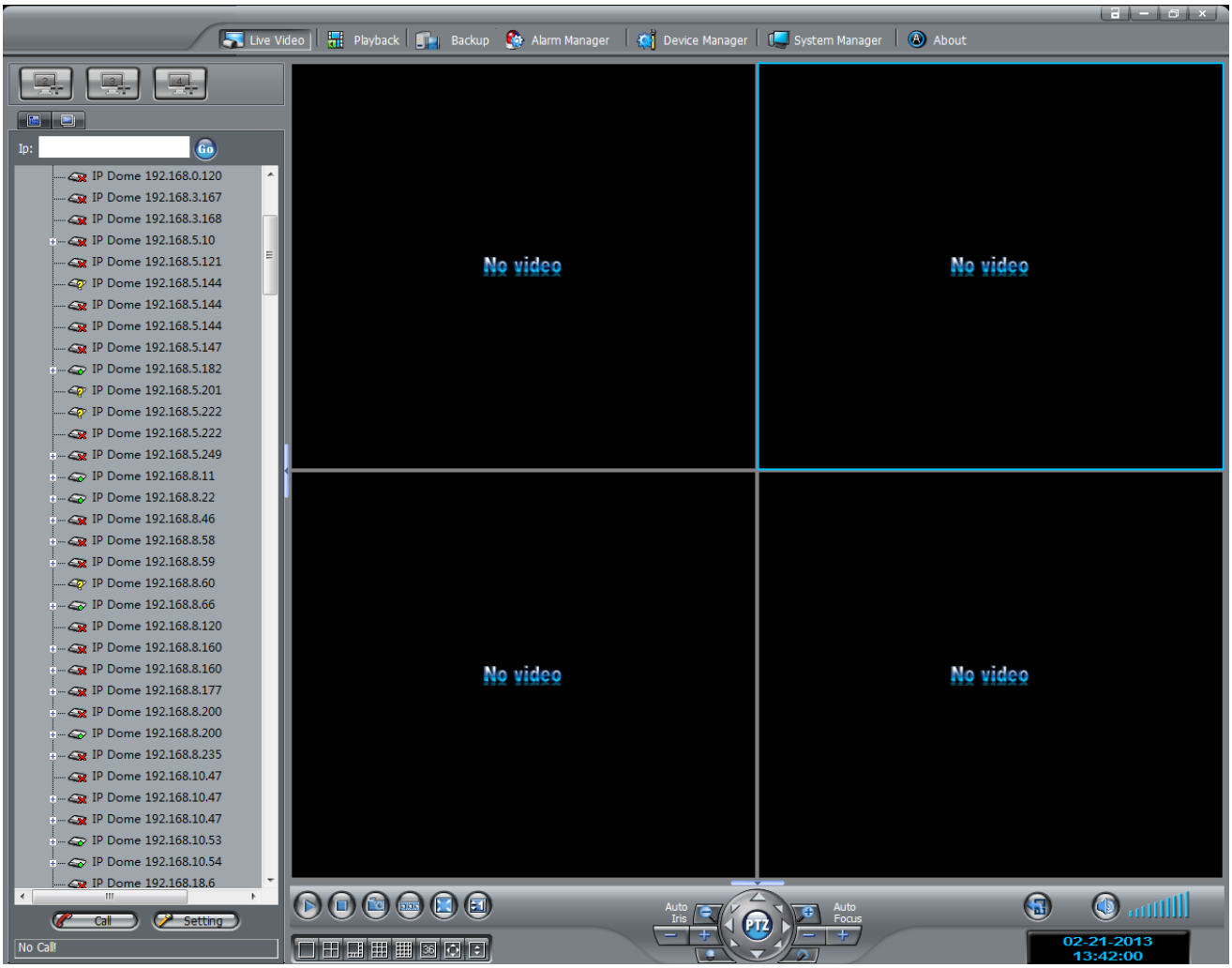
**Logout**

To log out of the system, click the “Cancel” in the upper right corner of the main page. The login page is display after you log out of system.

# 2.2 Introduce the Live Video interface

Figure 2-3 shows the main page of Network Video Manager System.

Figure 2-3 System main page

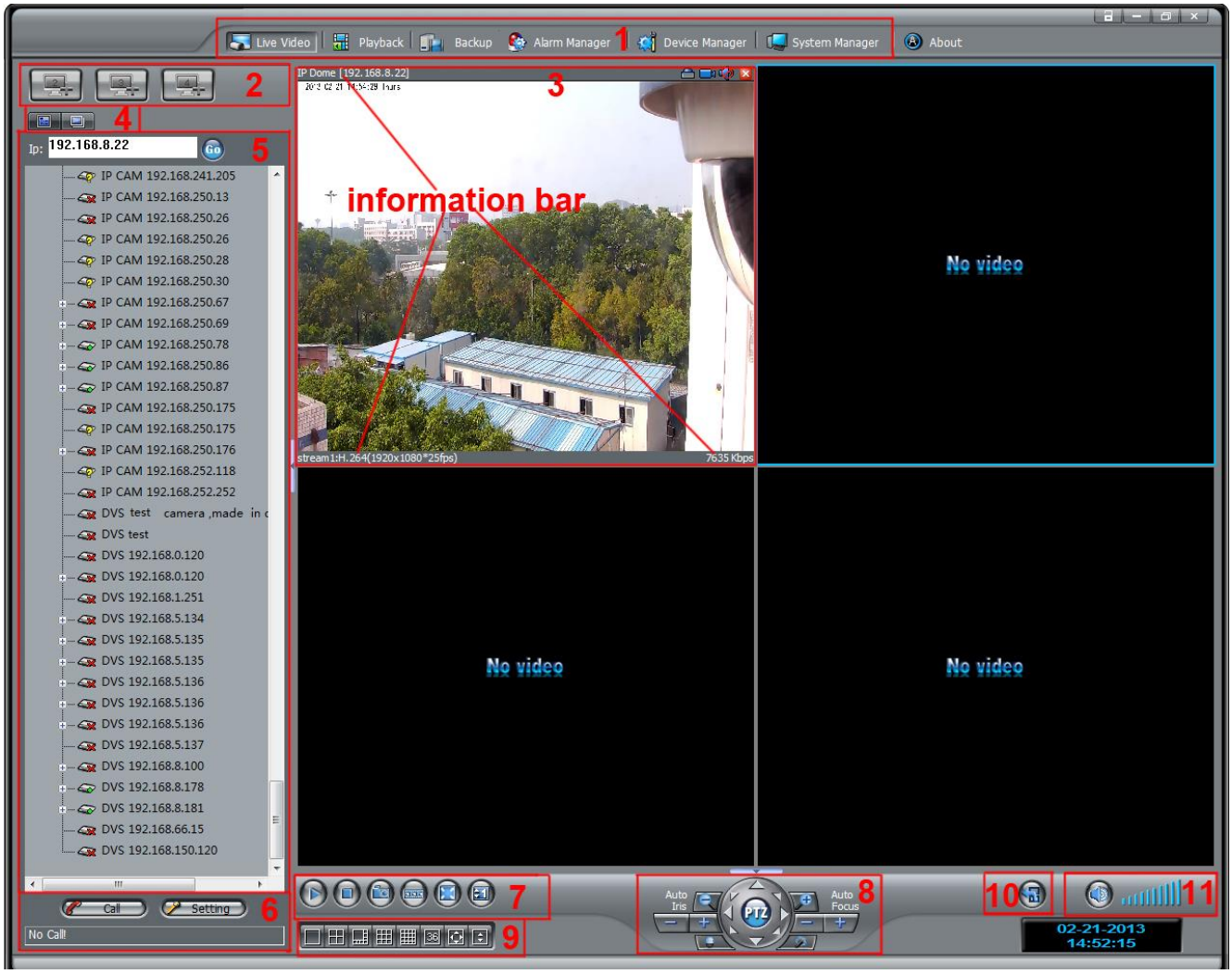



Real-time video don’t connect in Figure 2-3. You can connect real-time video through the following two ways:

- Right click to select the desired split screen, and then double click the desired device in the device list area.
- Right click to select the desired split screen, and click the desired device in the device list area, finally click the  button in the interface below.

The interface connect the real-time video is shown in Figure 2-4. Network Video Manager System Live Video interface include menu bar, Monitor Screen, Live Video, device grouping and setting cycle, device list, intercom function, real-time video control button, PTZ control and configuration, layout section, layout, and volume.

Figure 2-4 Live Video interface




## 2.2.1 Zone 1 menu bar

Menu bar include: Live video, Playback, Backup, Alarm Manager, Device Manager and System Manager. This chapter we introduce the interface under the Live Video menu bar. We will introduce the Playback, Backup, Device Manager and System Manager in later chapter.

## 2.2.2 Zone 2 monitor screen

Monitor screen shows three vice **d**isplays that connects to the host. Real-time video displays in addition to main display, usually a host can connect four displays, main display is 1, and other vice displays respectively are 2, 3, and 4. If the host doesn't connect vice displays, icon  is gray. Icon of the vice display which is connected to host will light up.

## 2.2.3 Zone 3 real-time video

Live Video interface display real-time video, device related information. You also can set parameters of video in this interface.

Table 2-1 introduce real-time zone in detail.

**Table 2-1** Real-time video introduction

| number | Name or symbol | description |
|---|---|---|
| 1 | Information bar | Display the name and IP address of IP camera, for example: IP Dome [192.168.8.11]<br>Display the current stream information of IP camera, for example stream2:H.264(640×360*25fps)<br>Display the current bit rate of IP camera, for example : 395Kbps |
| 2 |  | Click this button to single snapshot of the current screen |

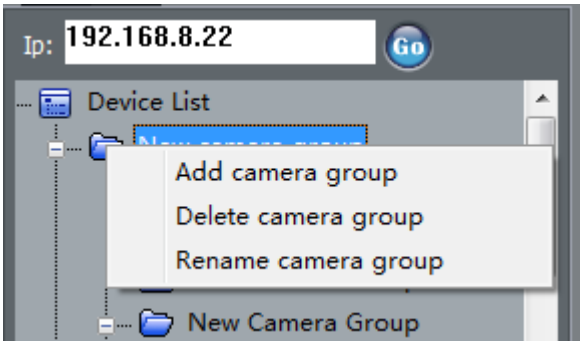
| number | Name or symbol | description |
|---|---|---|
| 3 |  | Manual record button.<br>**Note**<br>"System Manager > Concentrate Record > store config" and "System Manager > Concentrate record > Record Manager" complete the configuration, is the precondition to make to manual record button effective. Please see the "3.1.8 Concentrate Record" for more detail. When recording, the icon  becomes  . |
| 4 |  | Audio on-off button, this button will be active while connecting to images, it is available to control audio on-off button. |

## 2.2.4 Zone 4 device grouping and setting cycle

- Device grouping

Click  button in zone 4 into the device grouping interface. Right click  button to add camera group which you can add, delete or rename, as shown in Figure 2-5.

Figure 2-5 Add new camera group

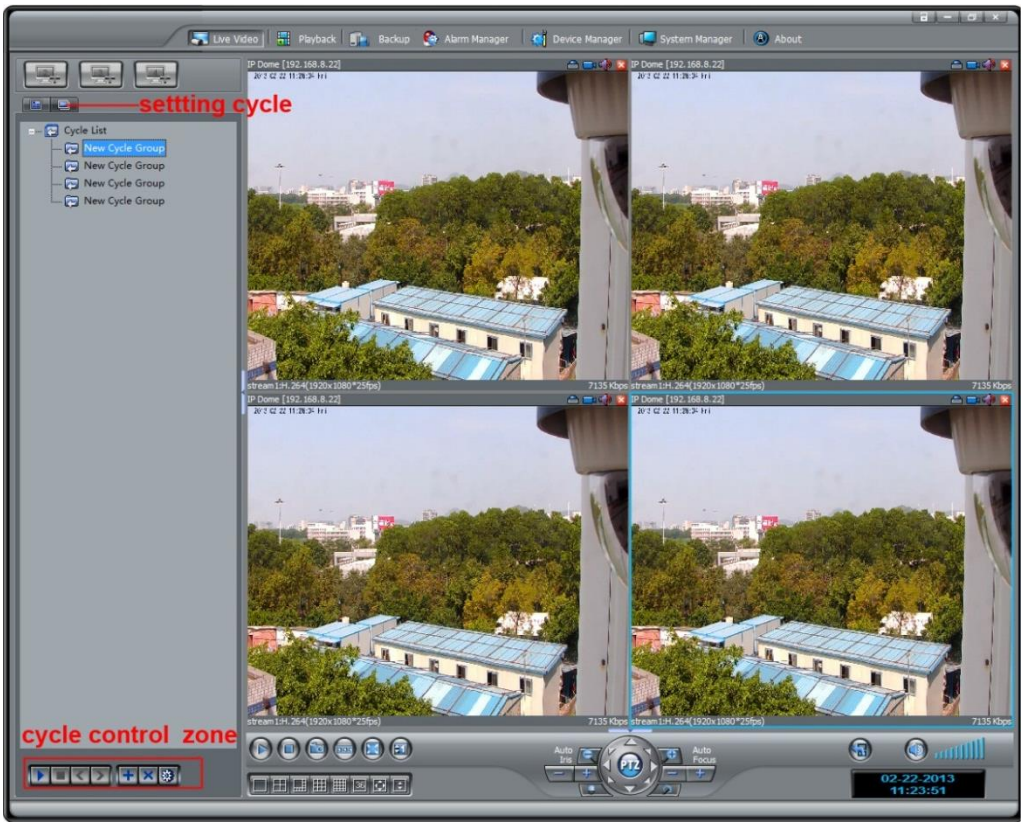



Drag required device to New Camera Group in zone 5 to complete device grouping.

- Setting cycle

Click  button in zone 4 into cycle interface, as shown in Figure 2-6.

Figure 2-6 cycle



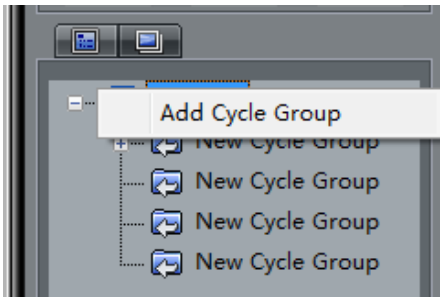
 : From left to right is buttons of Pause/Start, stop, Previous, and next.

 : From left to right is the buttons of Add group, Delete group and Configure.

The step of cycle setting is as followed:

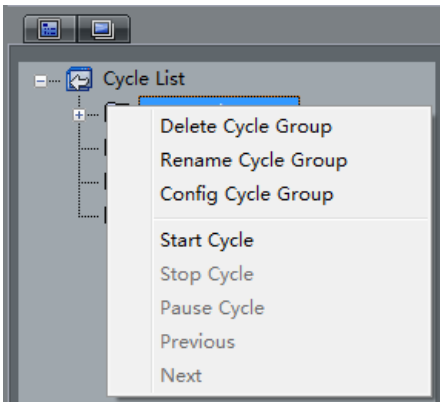
**Step 1** Right click Cycle List to add New Cycle Group, as shown in Figure 2-7.

Figure 2-7 Add New Cycle Group



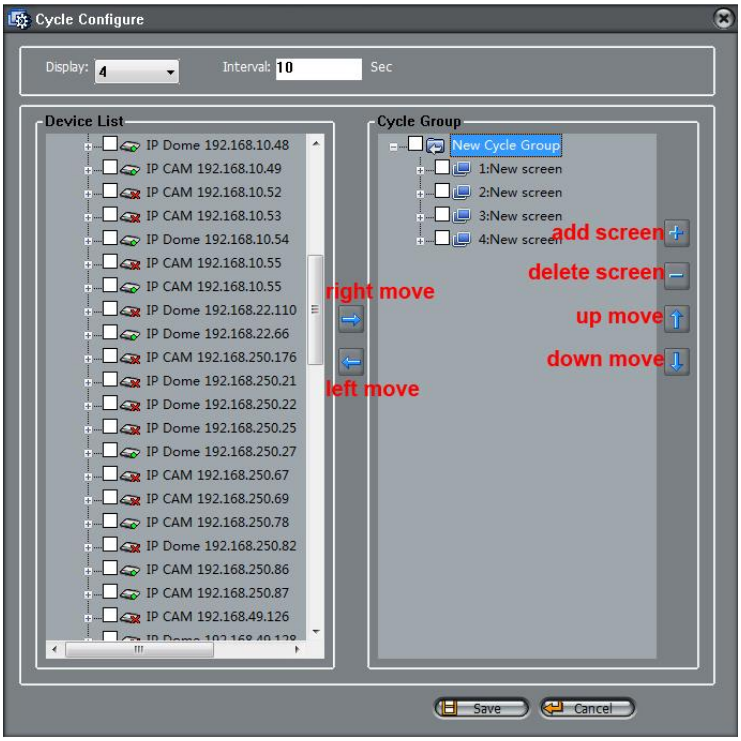

**Step 2** Left click cycle group which require setting, pop-up the menu as shown in Figure 2-8.

Figure 2-8 Cycle Group setting




**Step 3** Click Config Cycle Group into setting Cycle interface as shown in Figure 2-9.

Figure 2-9 Cycle setting

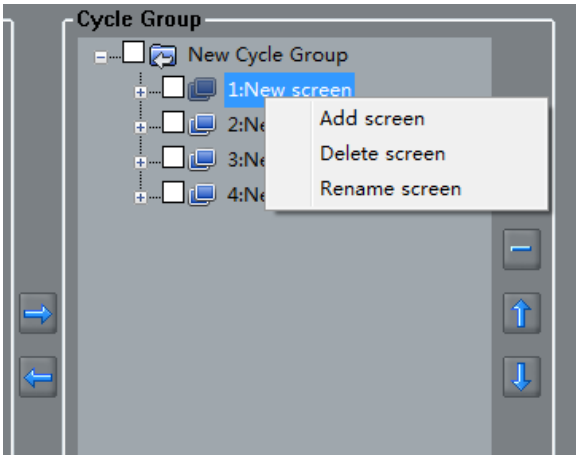


Display: can choose six kinds of image display that are 1, 4, 8, 9, 36 channels. For example: when the screen display chooses the NO.4, the each cycle screen will be showing the 4 channels.

Interval: time between cycle images.

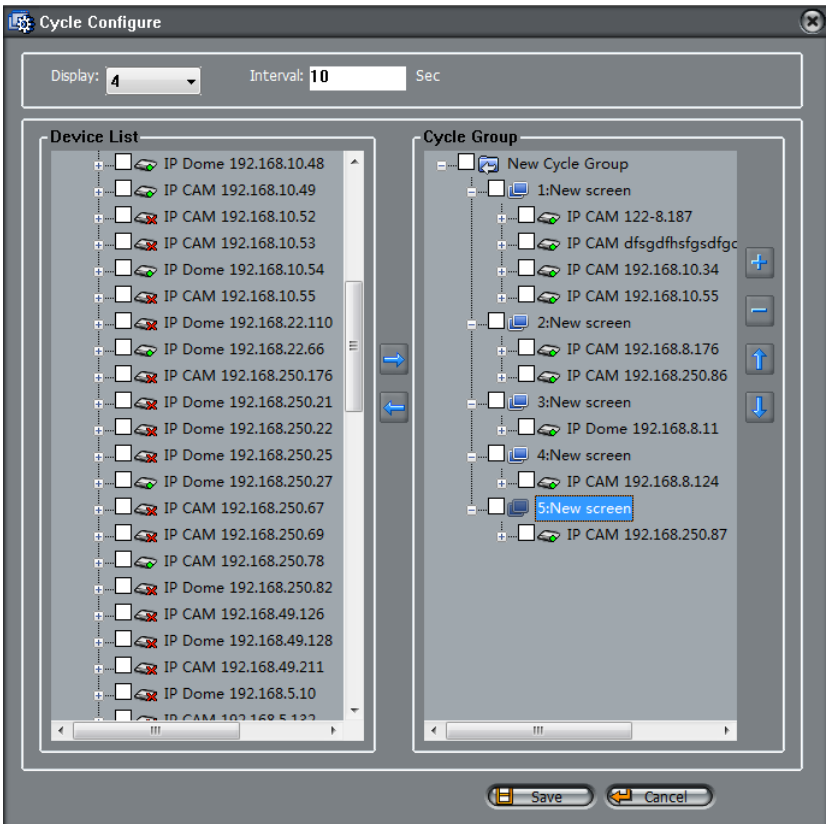
Right click “cycle group” to add screen. Click new screen pop-up the menu as shown in Figure 2-10, you can add, delete and rename screen through the menu.

Figure 2-10 Setting screen




**Step 4** Choose the screen which needs to add device, choose the required device in the Device list as shown in Figure 2-11, and click  to add the device to the screen.

Figure 2-11 Add the device to screen



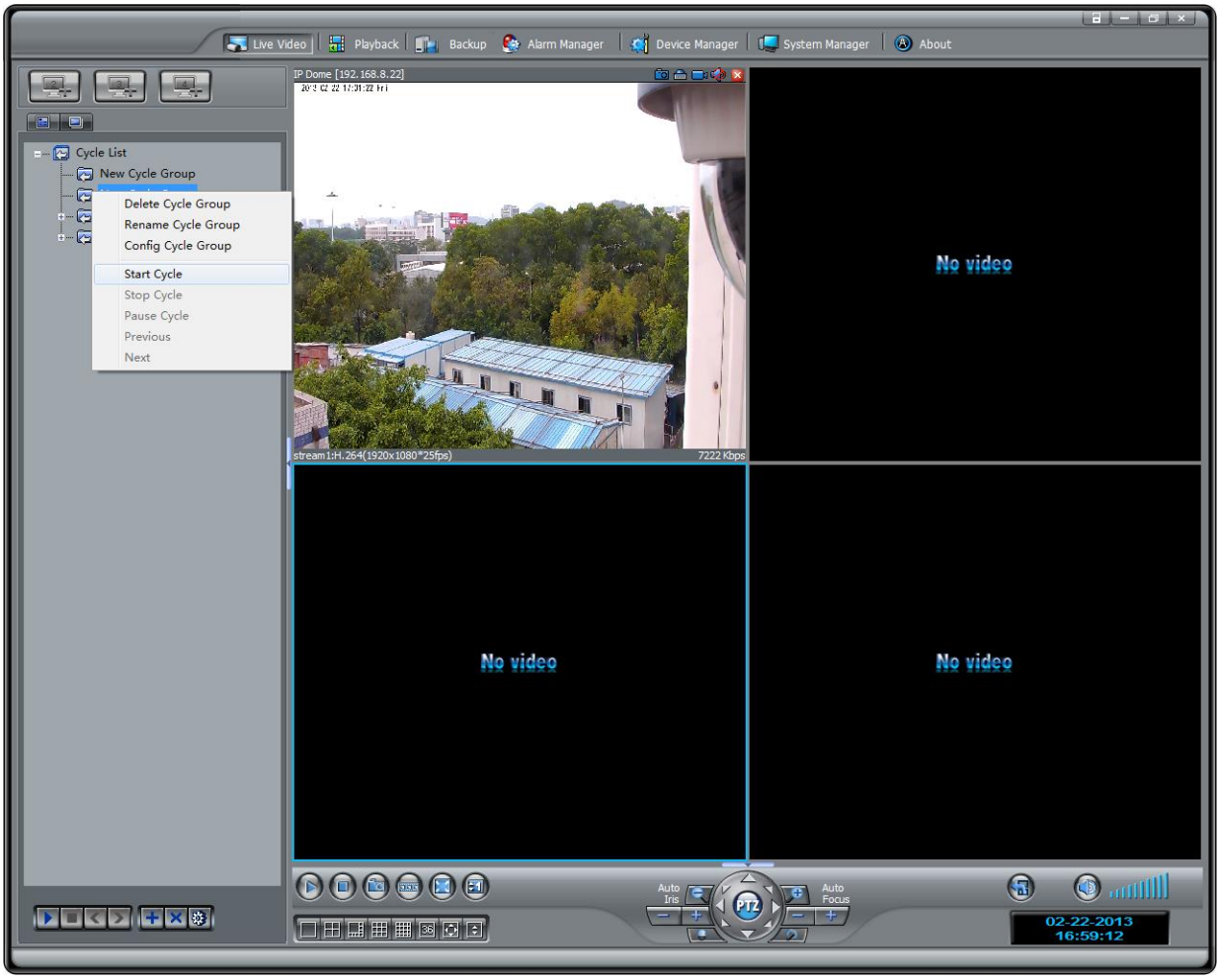

There are five screens in the Cycle group as shown in Figure 2-11, every ten seconds cycle a screen when start the cycle function.

**Step 5** Click 

button, save cycle setting.

**Step 6** Choose Cycle Group which has completed setting, right click cycle group pop-up menu and choose start cycle in the menu, you also can click  button to start cycle as show in Figure 2-12.

Figure 2-12 cycle




**----End**

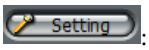
## 2.2.5 Zone 5 device list

IP Camera display on the device list through two ways:

- IP Camera will broadcast to the client and display on the device list when the when it is in LAN.
- You also can manually add device, more detail see “3.17 Device Search”.

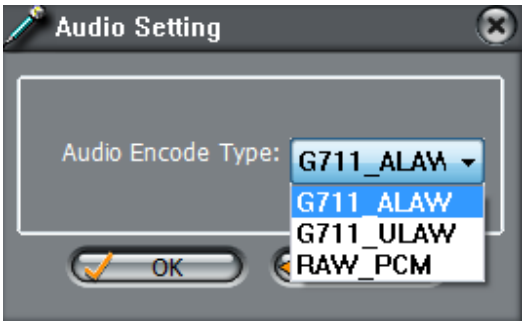
## 2.2.6 Zone 6 intercom function

: call/stop intercom function button, select the device, and then click call button to open intercom function.



: Audio setting button, click “setting” button pop-up interface as in Figure 2-13. You can select one Audio Encode Types in the drop down menu.

Figure 2-13 Audio setting



## 2.2.7 Zone 7 real-time video control button

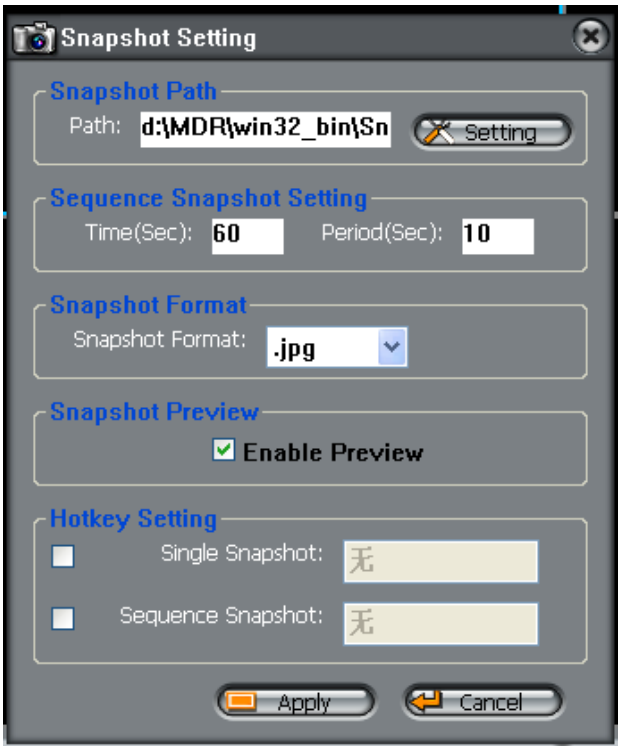
Real-time video control in zone 7 play control function on real-time video in zone 3. Real-time video control button is introduced as follows:

: Play button, select the device IP in the device list, and click “Play” button to connect images of the selected device.

: stop button, stop connection to the selected device.

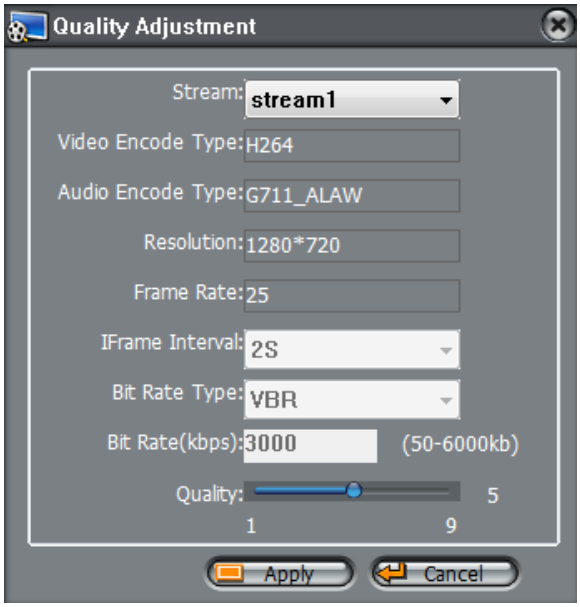
: Camera button, click this button to save the current image in single/series mode. Click pop-up the drop-down list, and click “snapshot Directory” into the directory used to store the image. Click “Snapshot Setting” pop-up the interface as shown in Figure 2-14. You can set the path, time and period of the Sequence Snapshot, photo format, snapshot preview and hotkey of Snapshot/snapshot.

Figure 2-14 Snapshot setting




: Video quality button, click it will pop-up the Quality Adjustment interface shown in Figure 2-15. It’s available to change stream and quality. Rate to be within the 1-9 choice of quality, and value is higher the more clearly.

Figure 2-15 Quality Adjustment



 : Full screen button for single video, when click, the selected video will be full screen.

 : Hide information button, when clicked, the selected information column of video will be hidden.

## 2.2.8 Zone 8 PTZ control and set

**Prerequisite**

All PTZ functions are only available to High Speed network Dome and device connected to an external PTZ.

**PTZ control**

When browsing real-time videos shot by a dome camera or a camera connected to an external PTZ, you can control the PTZ to view Video shot in different directions.

In the PTZ control area, you can click the eights arrow keys to move the PTZ in eight directions, as shown in Figure 2-16.

Figure 2-16 PTZ control button


You also can set the zoom and adjust the focus and iris. Table 2-2 describes PTZ buttons

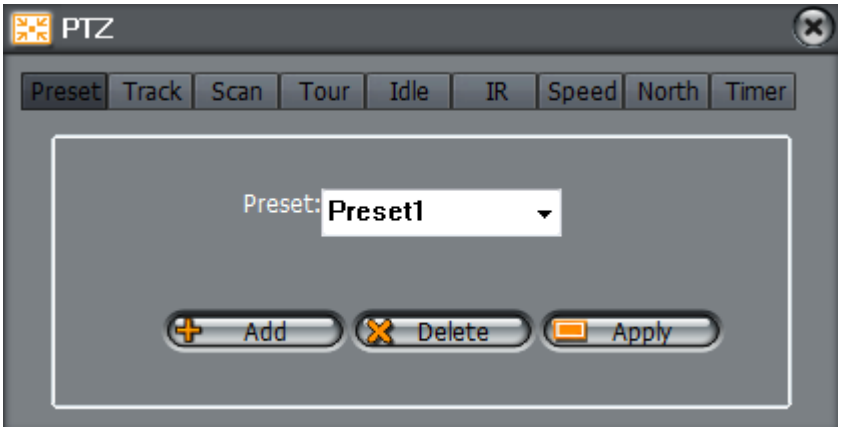
**Table 2-2** PTZ control buttons

| Button | Description |
|---|---|
| Zoom | Click zoom the lens in or out. |
| Focus | Click to adjust the focal length |
| Iris | Click to adjust the auto aperture. |
| Brush | Click  to clean the lens,<br>**NOTE**<br>This function is available only to be a camera with a brush or a camera shield. |
| On/off IR | Click  to turn on or off the infrared camera Shields.<br>**NOTE**<br>This function is available only to specific camera shields. |

**PTZ configuration**

Click  pop-up the PTZ configuration interface shown in Figure 2-17.

Figure 2-17 PTZ configuration



Through this interface, you can perform the following operations:

- Add, delete, and invoke Present, Track, Scan, and Tour.
- Set and enable Idle.
- Configure IR.
- Adjust the PTZ rotation speed.
- Set the direction to due north.
  Any direction can be set as the reference due north.
- Configure Timer.

### Configuring and Invoking Present Positions

You can configure present positions and quickly rotate the camera to present position by invoking the present position.

The procedure is as follows:

**Step 1** Configure a present position

1. Use eight arrow keys in the **PTZ control** area to rotate the PTZ to a position
2. Click **Add**,
   The Add preset interface is displayed, as shown in Figure 2-18.

Figure 2-18 Add present interface


3. Select a present position ID (such as 1) from the **Present** drop-down list box.
4. Enter a name for the present position.
5. Click **setting** to complete adding preset.

**Step 2** Invoke a preset position.

Select a preset position from the preset drop-down list box to invoke the present position.

**NOTE**

A maximum of 255 preset positions can be configured.

**----End**

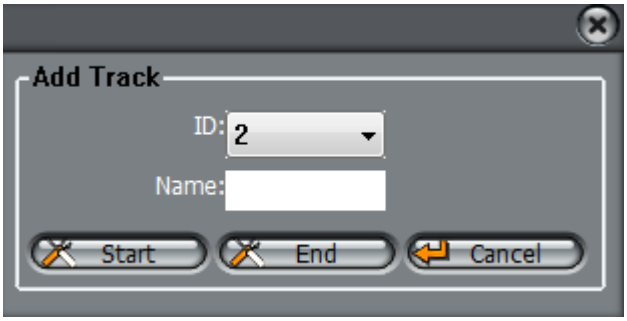
### Configuring and Invoking Tracks

You can record a track to allow the camera to repeatedly rotate based on the preset track.

**Step 1** Configure track.

1. Click **Track** in the PTZ configuration interface, as shown in Figure 2-17, then into the track configuration interface.
2. Click **Add** in the track configuration interface,
   The **Add track** interface is displayed, as shown in Figure 2-19.

Figure 2-19 Add Track interface




3. Select track ID (such as 1) from the **ID** drop-down list box
4. Set the track name
5. Click the **Start** button, and then use eight arrow keys in the PTZ control to set a required track.

6. Click **End** to complete adding track. (You also can click Cancel button to quit current setting.)

**Step 2** Invoke a track.

Select a track name from the **track** drop-down list box to invoke the track in the track configuration interface.

**NOTE**

A maximum of six tracks can be configured.

**----End**

### Configuring and invoking Scan

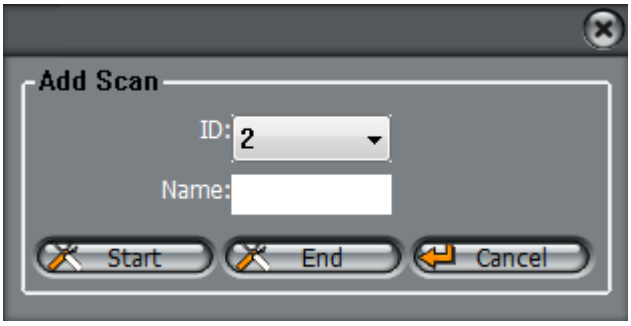
You can configure a Scan to rotate the camera between two positions by invoking the Scan.

The procedure is as follows:

**Step 1** Configure Scan.

1. Click **Scan** in the PTZ configuration interface, as shown in Figure 2-17, then into the Scan configuration interface
2. Use eight arrow keys in the PTZ control to set first position of Scan.
3. Click **Add** in the Scan configuration interface,
   The **Add Scan** interface is displayed, as shown in Figure 2-20.

Figure 2-20 Add Scan




4. Select Scan ID (such as 1) from the **ID** drop-down list box
5. Set the Scan name.
6. Click **Start** button, and then use eight arrow keys in the PTZ control to set another position of Scan.
7. Click **End** to complete adding Scan (you also can click Cancel button to quit current setting.)

**Step 2** Invoke a Scan.

Select a scan name from the **Scan** drop-down list box to invoke the scan in the Scan configuration interface.

**----End**

### Configuring an d invoke Tour

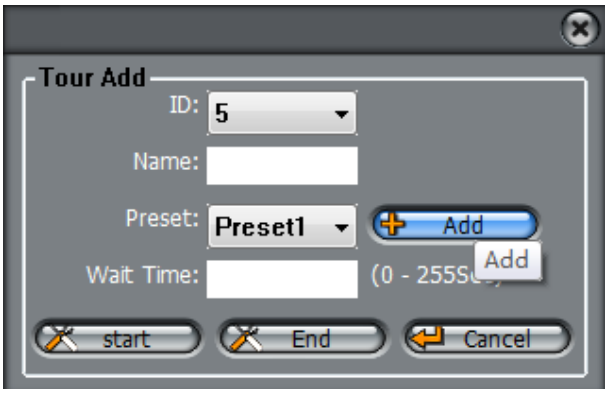
You can configure a tour to rotate the camera between positions preset set by PTZ.

The procedure is as follows:

**Step 1** Configure tour.

1. Click **Tour** in the PTZ configuration interface as shown in Figure 2-17 into the tour configuration interface.
2. Click **Add** button in the tour configuration interface,
   The Tour Add interface is displayed, as shown in Figure 2-21.

Figure 2-21 Tour Add interface




3. Select a tour ID (such as 5) from the **ID** drop-down list box.

4. Set the tour **name**.
5. Select first required position preset from the **preset** drop-down list box.
6. Input the values from **wait Time** area box to set the time to stay in this position preset.(0 sec~ 255 sec)
7. Click **start** button to begin setting tour.
8. Click **Add** in the Tour Add interface; select next position preset form the **preset** drop-down list box, and then Input the values from **wait Time** area box to set the time to stay in next position preset.(0 sec~ 255 sec).
9. Repeat former step until all required position presets are completed adding.
10. Click **End** to complete adding a tour. (You also can click Cancel button to quit current setting.)

**Step 2** Invoke a tour.

Select tour name and preset form the tour and preset drop-down list box, and then click **Apply** to invoke a tour.

**----End**

### Configuring and invoking an idle

You can configure an idle to invoke preset. Scan, Track, or Tour regularly.

**Step 1** Set an idle.

1. Click **idle** in the PTZ configuration interface, as shown in Figure 2-17, then into the idle configuration interface.
2. Select a monitor type from the **type** drop-down list box. Monitor type can choose preset, Scan, track, and tour.
3. Select a name form the **Name** drop-down list box.
4. Input a value from the **Idle Time** area box.
5. Click Setting to completed adding an idle.

**Step 2** Click **open** button to enable idle function.

**----End**

### Configuring IR lamp IR LED

Configuring IR LED only available to High Speed network Dome with IR LED.

Click **IR** in the PTZ configuration interface, as shown in Figure 2-17,

The IR configuration interface is displayed, as shown in Figure 2-22. Set the parameters according to Table 2-3.

Figure 2-22 IR configuration interface

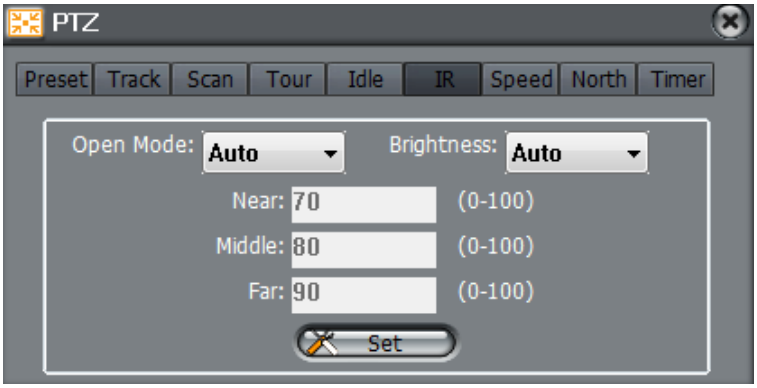



**Table 2-3** Parameters instruction of IR LED interface

| parameter | Description |
|---|---|
| On-off mode | On-off mode including:<br>• Auto mode<br>Default value of on-off mode is auto, network high speed dome turn the IR LED on or off using photosensitive device to detect the discretion of the intensity of illumination environment （when the IR LED open at auto mode, you can't change the **D/N Mode** to NightMode）<br>• Open mode<br>Force to open network high speed dome IR LED by choosing **open mode,** and unaffected by the environment.(when choose the Open mode, the **D/N mode** of network high speed dome will be force into NightMode)<br>• Close mode<br>Manual force to close IR LED at close mode. Photosensitive device can't detect the discretion of the intensity of illumination environment, and the IR LED can't open at this situation.(when choose the close mode, and the **D/N mode** of camera is Auto, the camera Change into color or black and white according the illumination environment. You also change the D/N mode into black and white or color). |

| parameter | Description |
|---|---|
| Brightness mode | Brightness mode include:<br>• Auto<br>At this mode, control the power of near, middle, and far IR LED through camera zoom.<br>• Manual<br>When the brightness mode setting can't be satisfied monitor condition, you can choose the manual mode, and adjust the near, middle, and far IR LED power. |
| Near | They are camera IR LEDs whose illuminated area is near. When monitor area is near, you need to open those IR LEDs. |
| Middle | They are the camera IR LEDs whose illuminated area is middle. When monitor area is middle, you need to open those IR LEDs. |
| far | They are the camera IR LEDs whose illuminated area is far. When monitor area is far, you need to open those IR LEDs. |

**Configuring Speed**

It is the PTZ rotational speed.

**Step 1** Click **Speed** in the PTZ configuration interface, as shown in Figure 2-17,

The **Speed** configuration interface is displayed.

**Step 2** Drag the blue ball to adjust PTZ rotational speed.

**Step 3** Click **Save** button to complete setting.

**----End**

**Configuring North**

**Step 1** Click **North** in the PTZ configuration interface as shown in Figure 2-17,

The north configuration interface is displayed.

**Step 2** Click Set button to complete setting.

**----End**

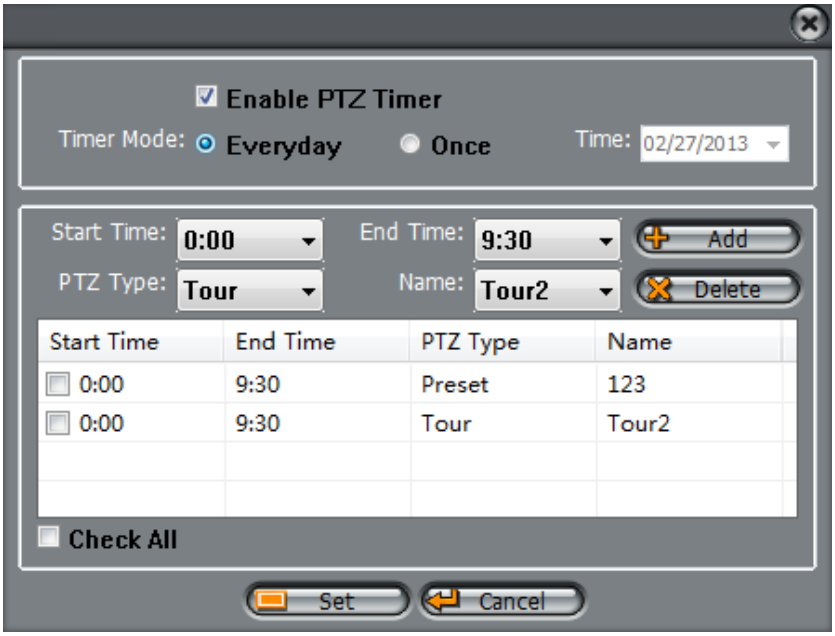
**Configuration timer**

**Step 1** Click **timer** in the PTZ configuration interface, as shown in Figure 2-17,

The **timer** configuration interface is displayed.

**Step 2** Click **setting**, pop-up the timer setting interface ,as shown in Figure 2-23.

Figure 2-23 Timer setting interface




**Step 3** Check **Enable PTZ Timer** box.

**Step 4** Select timer mode.

**Step 5** Select the required start time at the **Start Time** drop-down list box, and then select the required end time at the **End Time** drop-down list box.

**Step 6** Select the required monitor type at the PTZ type drop-down list box, you can select preset, Scan, Track, Tour in the box， and then select a specific from the **Name** drop-down list box.(for example preset, 123).

**Step 7** Click **Add** button, the required time to open timer is display under the timer setting interface.

**Step 8** Repeat Step 5, Step 6, and Step 7 add more required time to open timer.

**Step 9** Check the required time box.

**Step 10** Click **set** button to complete timer setting.

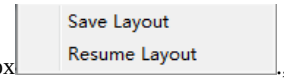
**----End**

## 2.2.9 Laytout selection

: screen division setup button, from left to right are single, quarter, eight, nine, sixteen, thirty-six, full screen and hide information. Click ESC button to quit while it is full screen. When click **Hide information** button, the information column of all videos will be hidden.

## 2.2.10 layout

You can configure the live video layout in order to call the live video quickly.

Choose required layout from layout section. Click  button, pop-up the drop-down list box 

., click **save** layout to save the layout. When the layout becomes another layout, you can click **resume layout** to return to the saved layout.

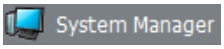
## 2.2.11 volume

Control the level of the speak talkback video voice.

# 3 Configuration

Configuration includes **Device Manager** and **System Manger**. System manger configures Network Video Manager System. Device Manger configures the devices managed by Network Video Manger System.

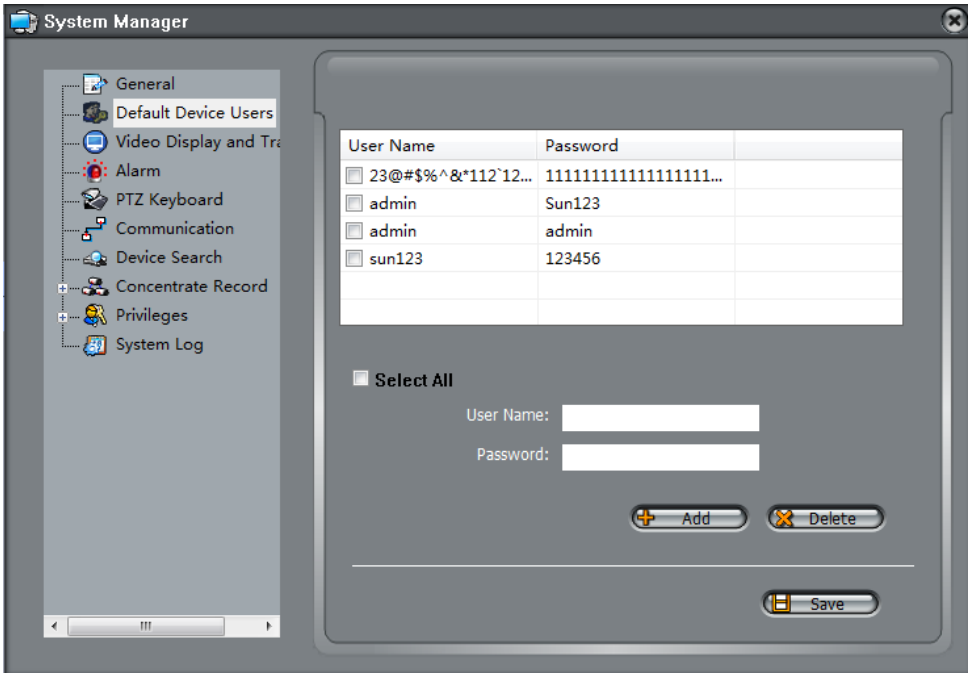
## 3.1 System manager

Click 

on upper right,

The system manager interface is displayed, as shown in Figure 3-1.

Figure 3-1 System manager

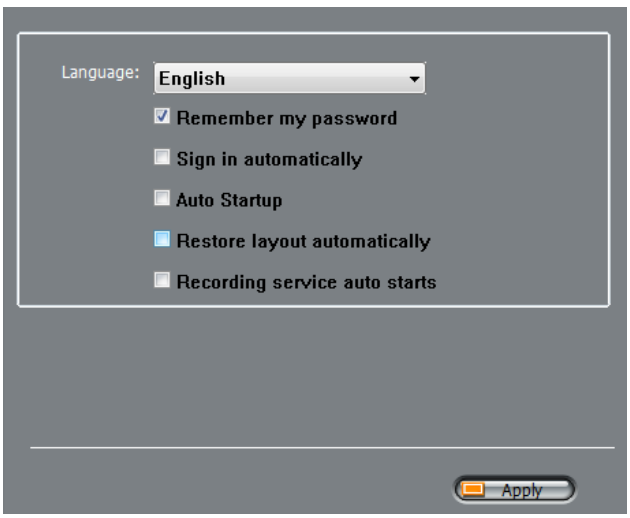



### 3.1.1 General

In the system manager interface shown in Figure 3-1, Click **General** from the list on the left side,

The general interface is displayed, as shown in Figure 3-2.

Figure 3-2 General interface



In this interface you can set those parameters as follows:

- Language
  Client-side can select English, Chinese (simplified), Russian, polish, and Chinese (Traditional).
- Remember my password
- Sign in automatically
- Auto startup
- Restore layout automatically
- Recording service auto starts

## 3.1.2 Default Device Users

Add the user name and password of devices, so the software client could connect camera and get the parameters automatically.

**Step 1** In the system manager interface shown in Figure 3-1, Click **Default Device Users** from the list on the left side,

The **Default Device Users** interface is displayed, as shown in Figure 3-3.

Figure 3-3 Default Device Users


**Step 2** Input the use name and password of device in the **user Name** and **Password** area box, and then click **Add** to complete one user setting.

Repeat Step 2 to add more users.

**Step 3** Click Save to complete default user adding.

**NOTE**

You can check the user name and password box which you want to delete, click **Delete** button to cancel it.

**----End**

## 3.1.3 Video Display and Transfer

**Step 1** In the system manager interface shown in Figure 3-1, Click **Video Display and Transfer** from the list on the left side,

The **Video Display and Transfer** interface is displayed, as shown in Figure 3-4.

Figure 3-4 Video Display and Transfer interface


**Step 2** Parameters of Video Display and Transfer interface in Table 3-1.

**Table 3-1** Parameters Introduction of Video Display and Transfer interface.

| Parameters | Description |
|---|---|
| Display window mode | Screen division number: 1, 4, 8,9,16 and 32.。 |
| Video stretch mode | The real-time video images will fill the entire play window. Whether or not to open video stretching mode, select YES to setup auto-startup |
| Image format auto adaptation | The video resolution had adjusted by the size of the screen automatically |
| Use time stamp | According to the time stamp Play: scroll bar from left to right meaning low delay to high smooth video. The more Image smooth the more time delay. |

**Step 3** Set the required parameters.

Click **Apply** button to complete setting.

**----End**

## 3.1.4 Alarm

When open the alarm function, Desktop will pop-up  icon while the Network Video Manager System receives an alarm information. Click  icon into the alarm information interface.

**Step 1** In the system manager interface shown in Figure 3-1, Click **Alarm** from the list on the left side,

The **Alarm** interface is displayed, as shown in Figure 3-5.

Figure 3-5 Alarm interface


**Step 2** Check Hint Alarm box, and click Apply button to complete setting.

**----End**

## 3.1.5 PTZ Keyboard

This function may through PTZ the keyboard connection computer remote control IP speed dome.

**Step 1** In the system manager interface shown in Figure 3-1, Click **PTZ Keyboard** from the list on the left side, The **PTZ Keyboard** interface is displayed, as shown in Figure 3-6.

Figure 3-6 PTZ Keyboard

**Step 2** Select required values respective from Serial Port, Baud Rate, Data Bits, Stop Bits, and Parity Verification from the drop-down list box

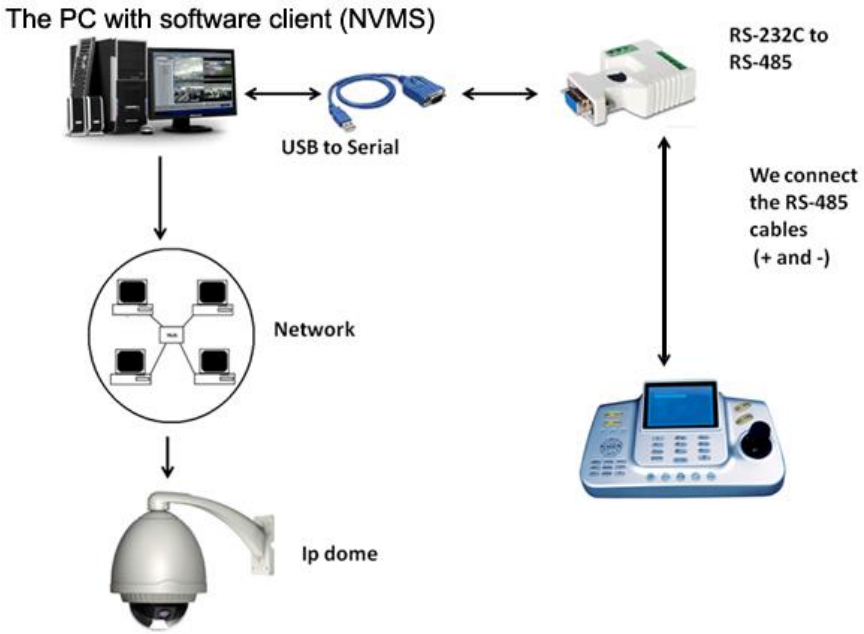
**CAUTION**

The camera keyboard address must be set to the address of the external PTZ keyboard; otherwise, the external PTZ keyboard cannot be used.

**Step 3** Click Apply to complete setting

Specific connection diagram is shown in Figure 3-7.

Figure 3-7 connection




**----End**

## 3.1.6 Communication

Communication Port Settings to set alarm center listen port, register service listen port and broadcast service listen port.

**Step 1** In the system manager interface shown in Figure 3-1, Click **communication** from the list on the left side,

The **communication** interface is displayed, as shown in Figure 3-8.

Figure 3-8 Communication interface

**Step 2** Set each port. Alarm center to listen the default port 30004, Register services to listen the default port 30005, Broadcast service to listen the default port 30003.

**NOTE**

For details about the value ranges of the Alarm center port, Resister service listen port, and Broadcast service listen port, sees the communication matrix.

**Step 3** Click Apply,

The tip of "Applying config succeeded. Please restart the application to make the changes effective" is displayed. Click OK, the system automatically saves the setting.

**Step 4** Restart the application to make the setting effective.

**----End**

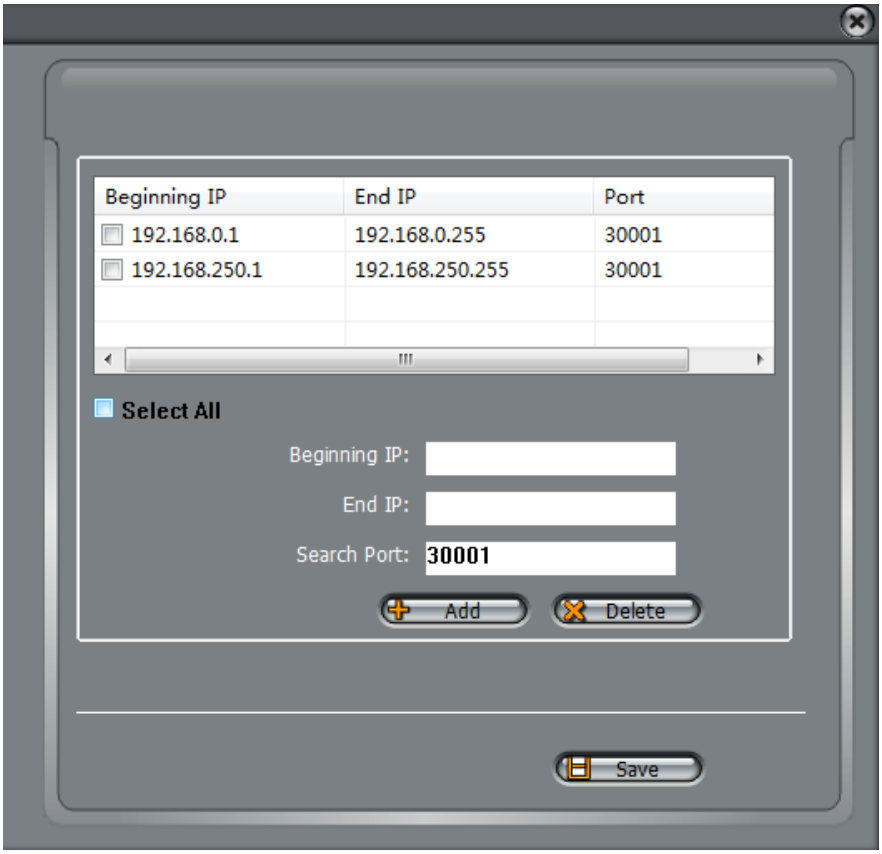
## 3.1.7 Device Search

According to configure the IP network segment and the port number, search for all IP devices in the network segment. Different ports can search the same network segment devices.

**Step 1** In the system manager interface shown in Figure 3-1, Click **Device Search** from the list on the left side,

The **Device Search** interface is displayed, as shown in Figure 3-9.

Figure 3-9 Device Search interface




**Step 2** Configure the IP range, and Search port. (you also can check the IP range, and then click delete button to remove it)

**Step 3** Click **Add** button to complete adding one IP segment.

**Step 4** Repeat Step 2 and Step 3 to add more IP segment.

**----End**

## 3.1.8 Concentrate Record

In the system manager interface shown in Figure 3-1, Click **Concentrate Record** from the list on the left side,

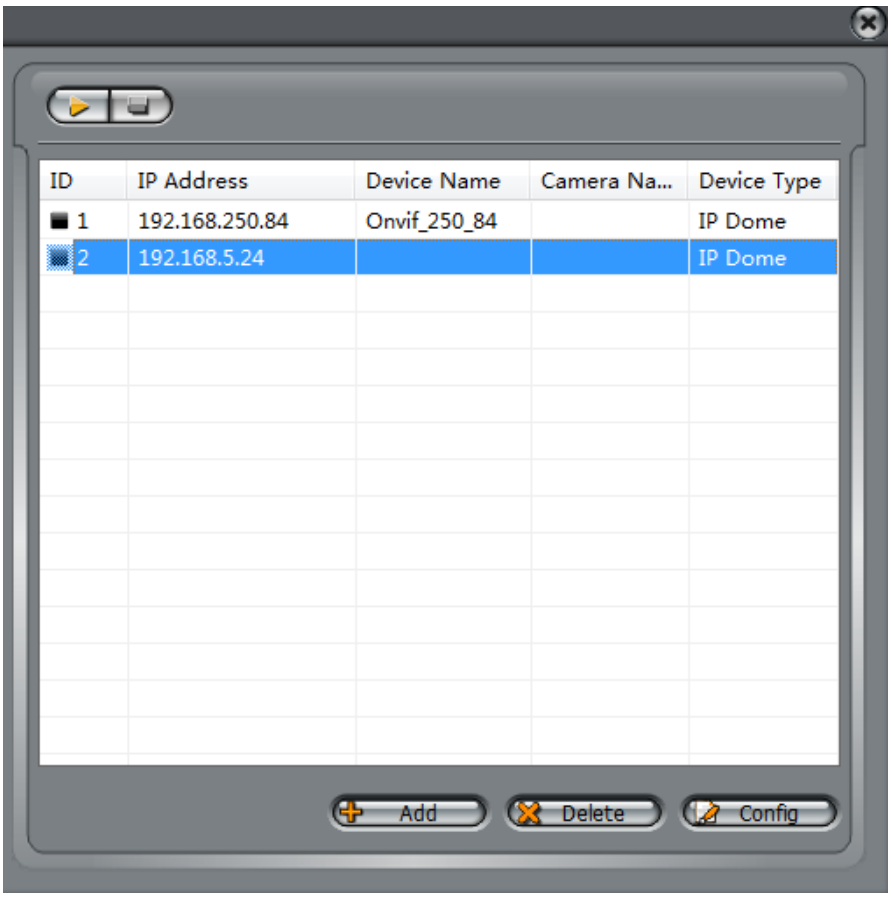
The **Concentrate Record** interface is displayed.

**Record Manager**

**Step 1** Click **record manager** on the submenu of concentrate record.

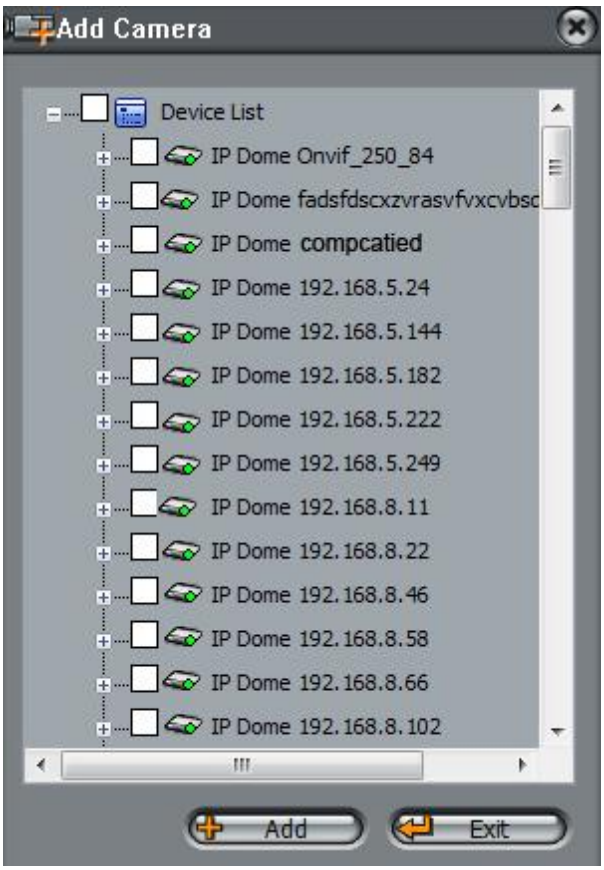
The Record Manger is displayed, as shown in Figure 3-10.

Figure 3-10 Record manager interface




**Step 2** Add required recording camera. Click add button, pop-up Add Camera interface, as shown in Figure 3-11.

Figure 3-11 Add Camera interface



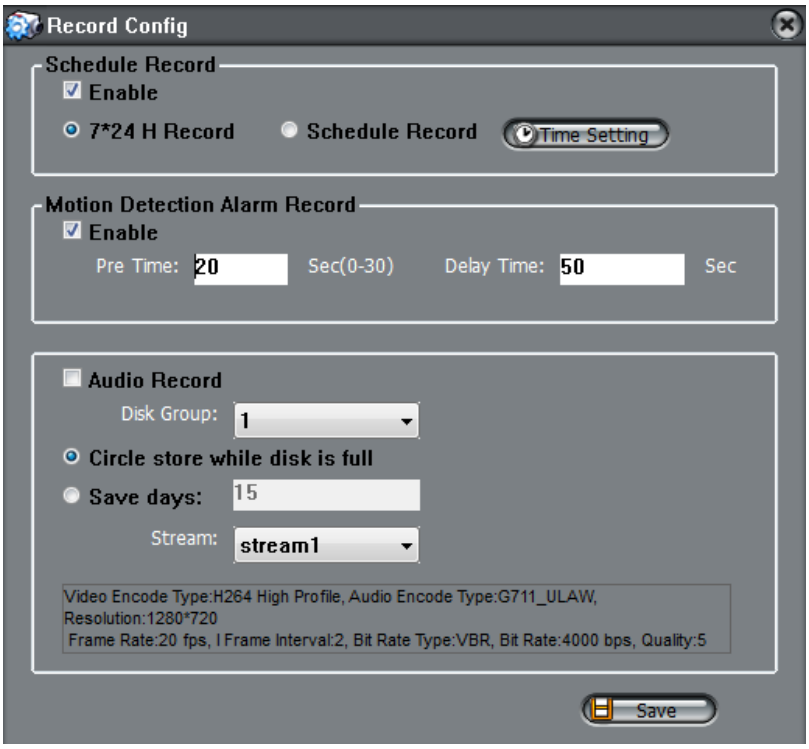

Check the required camera on the device list, then click the Add button, the selected camera will be displayed in Figure 3-10.

**Step 3** Configure camera's recording.

Select the required camera, click 

in Figure 3-10. The Record Config interface is displayed, as shown in Figure 3-12.

Figure 3-12 Record Config




**Step 4** Set the parameters according to Table 3-2.

**Table 3-2** Record Config parameters

| parameter | Description | Setting |
|---|---|---|
| Schedule Record Enable | Indicates whether to enable the scheduled recording function for the selected channel. The options are as follows:<br>24*7H Record<br>Schedule Record | [Setting method]<br>Select the check box.<br>[Default value]<br>Deselected |
| 24*7H Record | 24*7H Record | [Setting method]<br>Select the check box. |
| Schedule Record | Recording According to the time buckets. | [Setting method]<br>Select the check box, Click  pop-up the Schedule Time config interface,<br>And then set the time buckets to record. |
| Motion Detection Alarm Record Enable | Function that triggers alarm recording when an alarm is found | 【setting method】<br>Select the check box. |
| Enable Prerecord time | Enable users to query videos that are shot in a specified duration before an alarm is generated. The pre-recording duration depends on the bit rate. A higher bit rate means a short duration. | 【setting method】<br>Enter a value manually |
| Post record | Recording duration ( in seconds) after an alarm is generated. | 【setting method】<br>Enter a value manually |
| Record audio | Indicates whether to record audios together with videos | 【setting method】<br>Select the check box |

| parameter | Description | Setting |
|---|---|---|
| Record Rule | Rule for saving recording, the options are as follows:<br>• **Cycle Write:** Saves recording in cycles<br>• **Save Days**: Duration (in days) for saving a recording. The duration can be a maximum of 99999 days.<br>**NOTE**<br>The value 0 indicates that recordings are not overwritten. | 【setting record】<br>Select the required check box |
| stream | The device supports three streams.<br>• Streams 1 and 2 use the H.264 codec.<br>• Stream 3 uses the Motion Joint Photographic Experts Group (MJPEG) codec.<br>• The maximum resolution can be set for streams 1 and 3.Only a low resolution can be set for stream 2. | [Setting method]<br>Select a value from the drop-down list box. |

**Step 5** Click **Save**,

The tip "Saving config succeeded" is displayed. Click **OK**, the system automatically saves the setting.

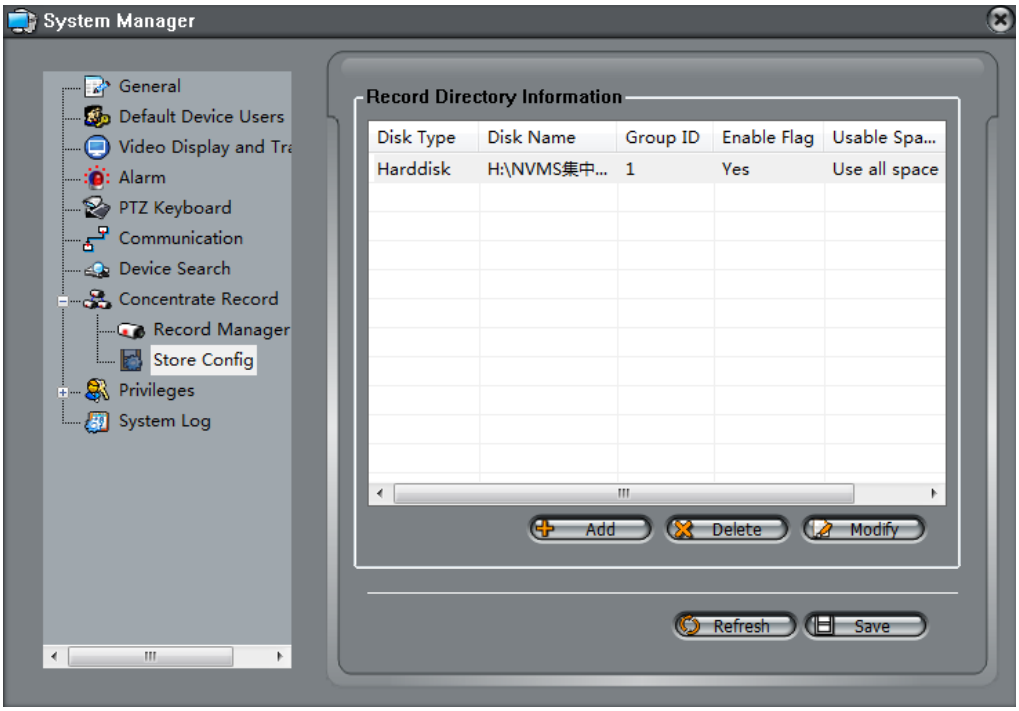
**----End**

**Store config**

**Step 1** Click **store config** on the submenu of concentrate record.

The **store config** is displayed, as shown in Figure 3-13.

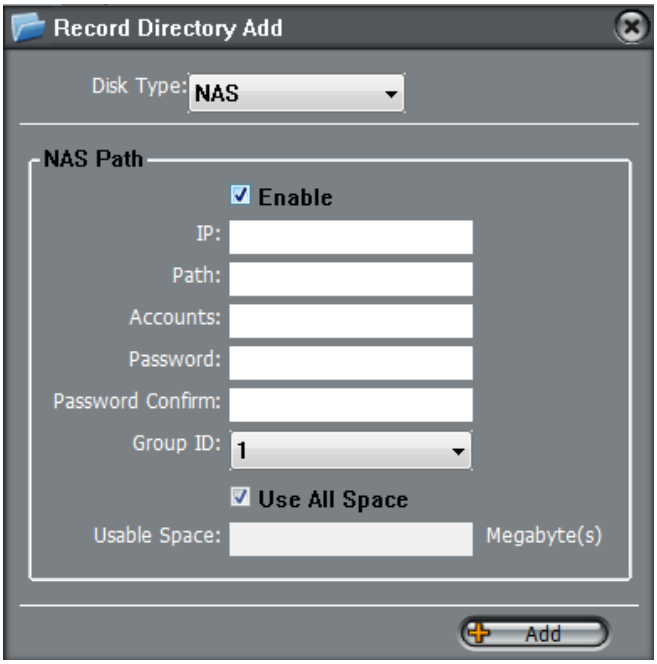
Figure 3-13 Store config




**Step 2** Click **Add** button,

The **Record Directory** Add interface is displayed, as shown in Figure 3-14.

Figure 3-14 Record Directory Add




**Step 3** Set Disk Type.

Recordings can be stored in NAS and Harddisk in Network Video Manager System.

- NAS

Before configuring the NAS recording, set the recording directory, user name, password, and public IP address of the NAS server according to the configuration descriptions. The public IP address is required by the NAS device to communicate with the internet.

Procedure is as followed:

1. Select **NAS** from the **Disk Type** drop down list box.
2. Set parameters of NAS store recording according to Table 3-3.

**Table 3-3** NAS configuration parameters instruction

| Parameters | Description | setting |
|---|---|---|
| IP | IP address of the NAS server | 【setting method】<br>Enter a value manually |
| path | Directory for saving recording on the NAS server | 【setting method】<br>Enter a value manually |
| Account | User name for logging in to the NAS server | 【setting method】<br>Enter a value manually |
| password | Password for logging in to the NAS server | 【setting method】<br>Enter a value manually |
| Confirm password | Confirm of the password for logging in to the NAS server | 【setting method】<br>Enter a value manually |
| Recording storage limited | Indicates whether to limit the recording storage space.<br>If you select check Use All Space box, all space on the NAS server are used | 【setting method】<br>Select check Use All Space box |
| | If you select Usable Space. You can set the maximum space size to be used | 【setting】<br>Set the maximum space size to be used manually. |

3. Click Add to complete adding Store Config.

- Harddisk

1. Select **Harddisk** from the **Disk Type** drop down list box.
2. Click 

.

The browse folder interface is displayed, as shown in Figure 3-15

Figure 3-15 Browse for folder interface


3. Set the required path, and click **OK** button, and then click Add to complete setting.

**----End**

## 3.1.9 Privileges

Privileges include permission Group and User.

**Permissions Group**

You can add, modify, and delete permission groups, and select available permissions to grant them to the corresponding group.

**NOTE**

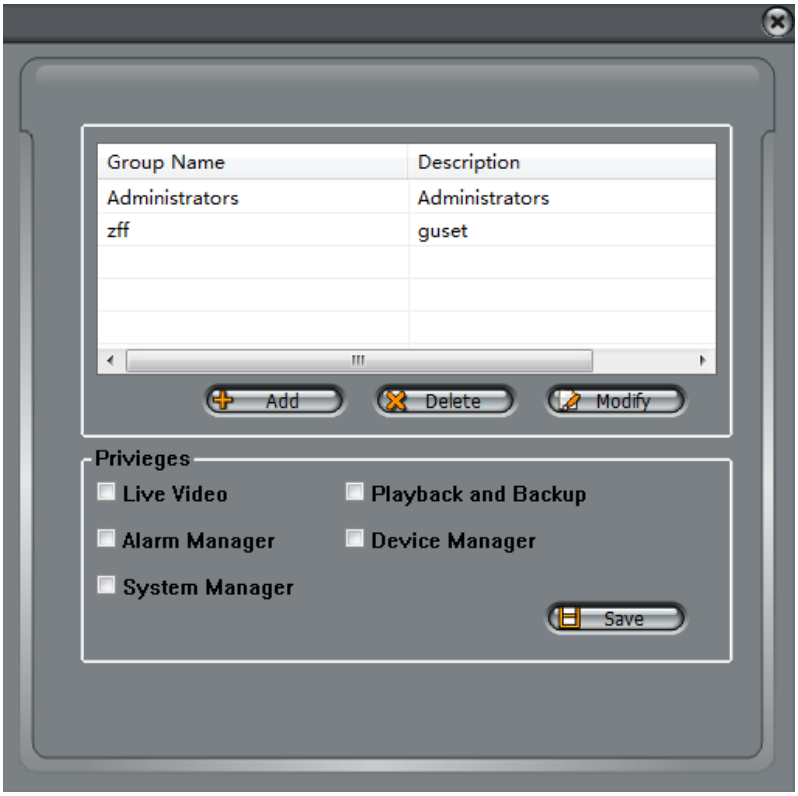
Only the user with the System Manager can access the **System Manage**r interface.

Procedure is as followed:

**Step 1** Choose **System manager > Privileges > Group**,

The Group interface is displayed, as shown in Figure 3-16.

Figure 3-16 Group interface




**Step 2** Add, delete, modify permissions group.

Set parameters of permission group according to Table 3-4.

**Table 3-4** Function instruction

| Function | Operation step | Instruction |
|---|---|---|
| Add | 1. Click **Add**.<br>The **(Add\Modify) group** interface is display.<br>2. Input Group Name and description value.<br>3. Click **Confirm**,<br>Complete to add permission group, and then return to the **permission group** interface.<br>4. Configure the **privilege** for the permission group. Check the required privileges. Privileges include Live Video, Playback Backup, and Alarm Manager, Device Manager, and System Manager. | Add more permission group. |
| Modify | 1. Select existing permission group which need to modify.<br>2. Clicks **modify**.<br>The **(Add\Modify) group** interface is display<br>3. Modify the **Group Name** and **Description**.<br>4. Click confirm button, complete to modify permission group, and then return to the **permission group** interface. | Modify permission group |
| delete | 1. Select existed permission group which need to delete.<br>2. Click delete.<br>The tip “Deleting the group succeeded” is displayed.<br>3. Click **OK,**<br>Complete to delete the permission group, and then return to the **permission group** interface, | Delete permission group |

**----End**

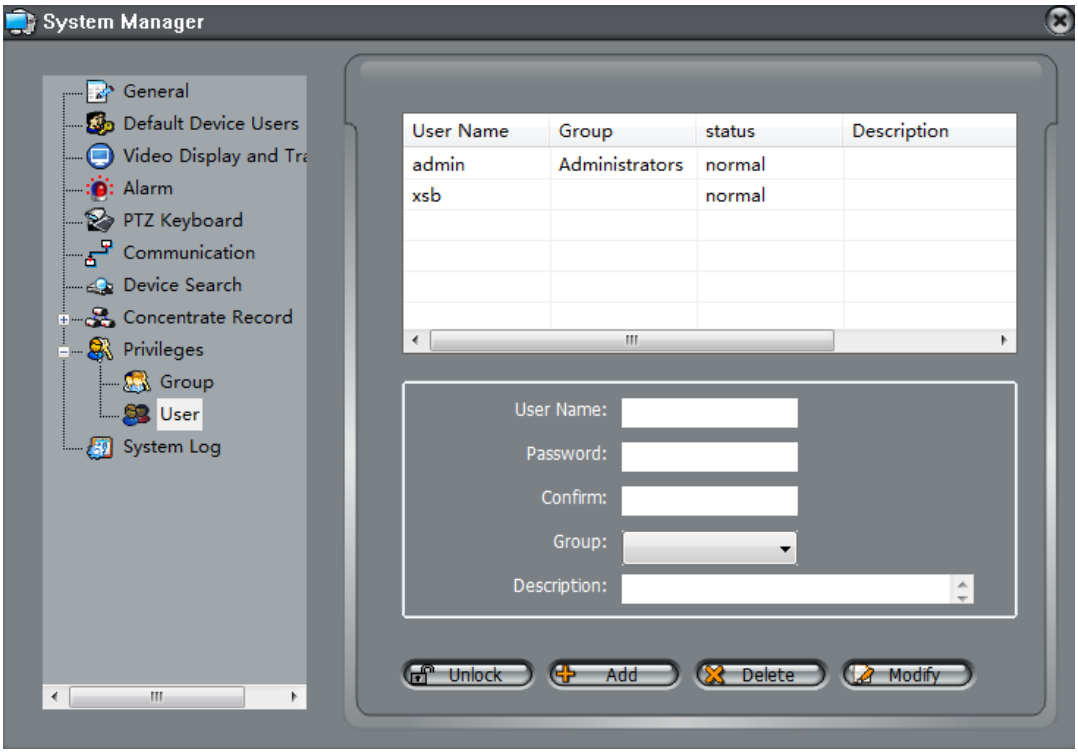
**User**

Users can add, delete and modify the user’s user name and password. And can unlock the user has been locked. Only Super-administrator (default user name is admin) can unlock locked uses.

**Step 1** Choose **System Manager > privilege > user**,

The User interface is displayed, as shown in Figure 3-17.

Figure 3-17 User interface




**Step 2** Add, modify, and delete User.

Set the parameters of User according to Figure 3-18.

Figure 3-18 Function instruction

| function | Operation step | instruction |
|---|---|---|
| Add | 1. Click Add,<br>The Add Use interface is displayed.<br>2. Input User Name.<br>3. Select the Group that the User belongs to from the group drop-down list box.<br>4. Input the password and confirm it.<br>5. Input Description.<br>6. Click **confirm** button,<br>Complete adding User. | You can add super-administrator or common user. |
| modify | 1. Select existing User which needs to modify.<br>2. Click Add,<br>The Add User interface is displayed.<br>3. Input User Name.<br>4. Input the password and confirm it,<br>5. Select the Group that the User belongs to form the Group drop-down list box.<br>6. Click modify button,<br>The tip “Updating user succeeded” is displayed. Click **OK** button to return to the **user** interface. | You can modify user name, password, and group.<br>**NOTE**<br>A password must be set according to the set according to the following rules:<br>● The password length of a user (including the administrator and super administrator) must range from 8 to 32 characters<br>● A password cannot be the same as the user name or the reverse of the user name. |

| function | Operation step | instruction |
|---|---|---|
| delete | 1. Select existing User which needs to be deleted.<br>2. Click **Delete** button,<br>The Tip “Deleting user succeeded” is displayed.<br>3. Click **OK** button,<br>Complete to delete the user, and then return to the **User** interface. | You can delete user. |
| Unlock | **NOTE**<br>Only super-administrator (default user name is admin) can unlock locked users.<br>Select the locked Users, click **Unlock** button, complete unlock locked user. | - |

**----End**

### 3.1.10 System Log

System log include: all, live video, voice talk, login system, and set device parameters.

**Step 1** Choose **System Manager > System Log**,

The System Manager interface is displayed, as shown in Figure 3-19.

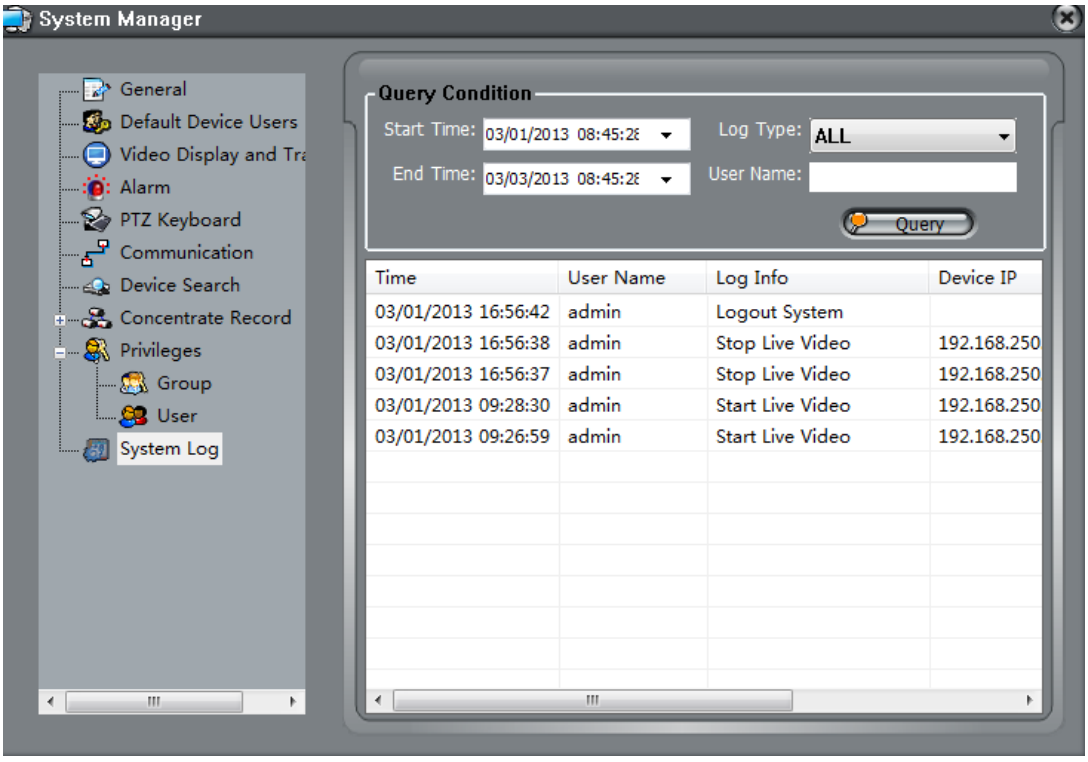
**Step 2** Input the query condition.

Respectively input values of Start Time, log type, end time, and user name.

**Step 3** Click **Query** button,

The query result is displayed in the system log interface.

Figure 3-19 System Manager interface




**----End**

## 3.2 Device Manager

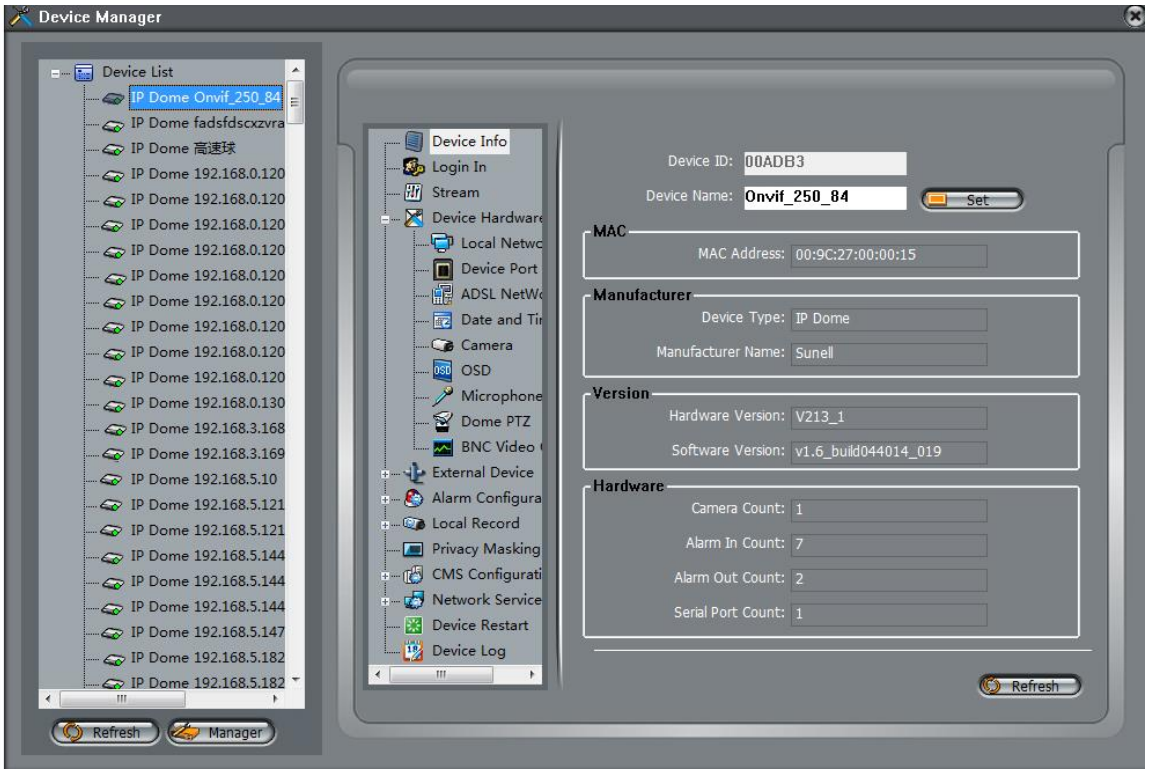
Device Manger includes video device management and NVR management.

### 3.2.1 Video device management

Choose **device manager > Device video device management,**

The device video management interface is displayed, as shown in Figure 3-20.

Figure 3-20 Device manager interface




In the device management interface we can configure the parameters of the cameras which have been added to the NVMS.

The way how to configure the device from NVR is the same from WEB. Please reference the network cameras " IE Web browser interface Guide".

## 3.2.2 NVR management

Choose **Device manager > NVR management** to NVR configure interface to NVR configure interface.

# 3.2.2.1 Device Info

**Operation description**

NVR device info including:

- Device ID and Device Name
- Device Type, Manufacturer ID, Manufacturer Name
- Hardware Version and Software Version
- Camera Count and Disk Count

**NOTE**

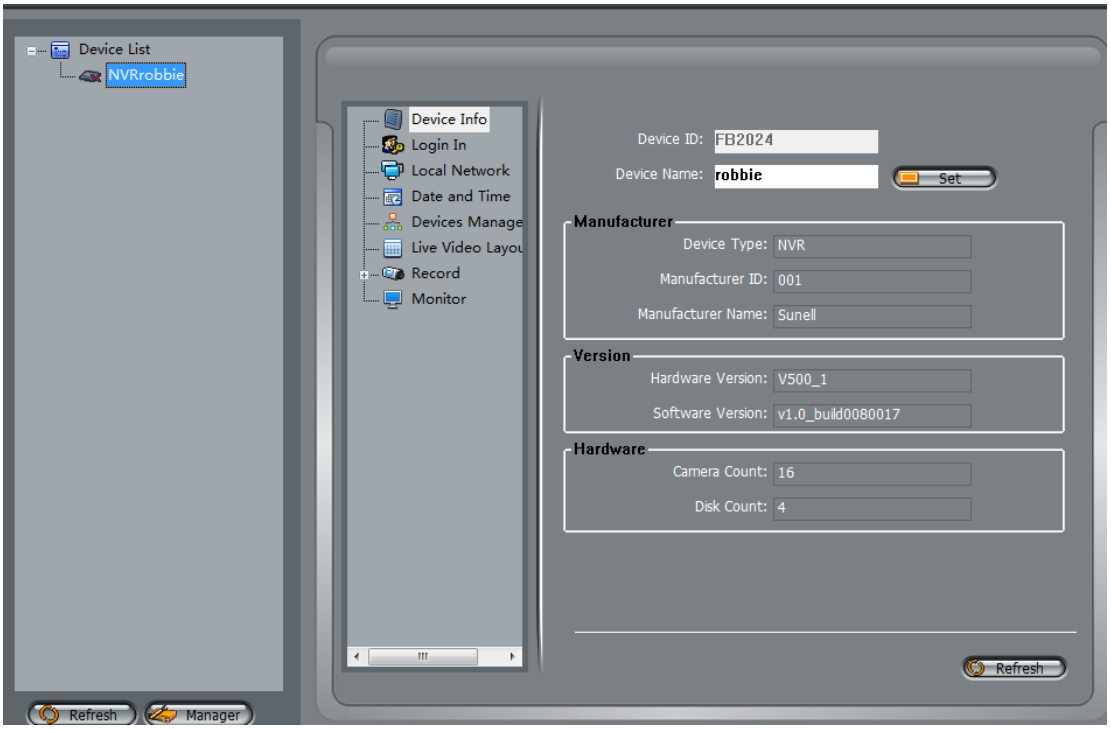
- Only Device Name can be edit ,other parameters can't be edit
- When device update the device info will auto update as well and will keep same step with the software version .

**Operation Steps**

**Step 1** choose **Device manager->NVR management->Device Info**,

The NVR information will show as Figure 3-21.

Figure 3-21 Device info interface




**Step 2** Set device Name, Enter the name and click Set .if successfully message will promote.

**---- End**

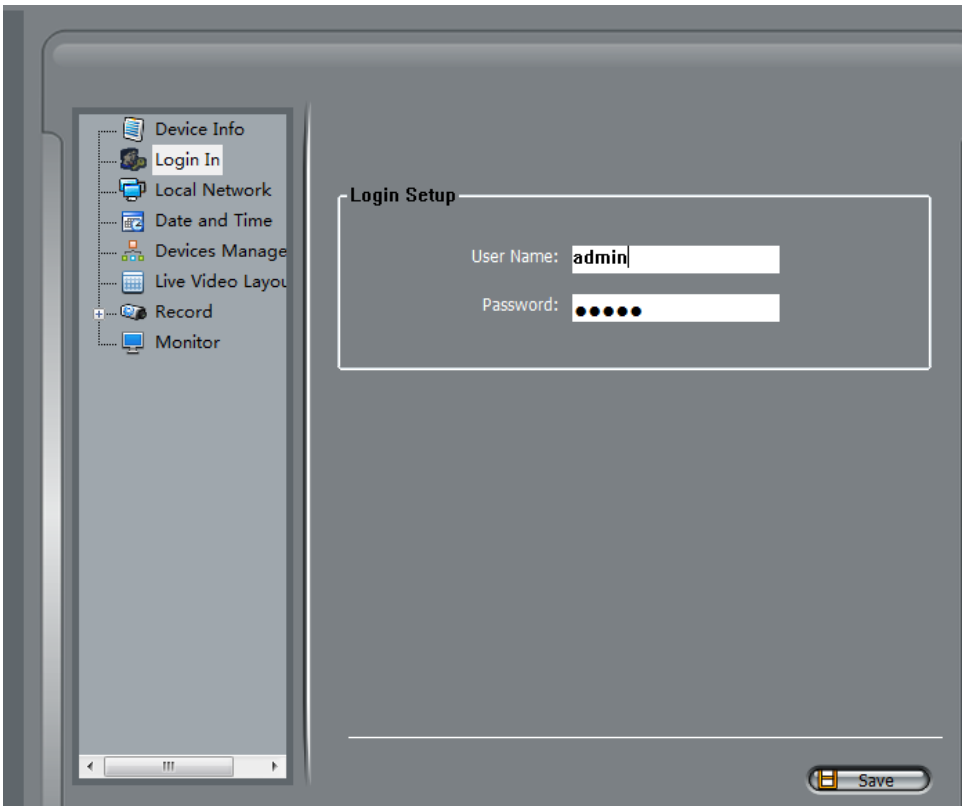
## 3.2.2.2 Login in

Login in interface can change the default user name and password.

**Operation Steps**

**Step 1** Select **Device manager->NVR management->Login in** enter the interface show in Figure 3-22.

Figure 3-22 Login interface



**Step 2** Enter the user name and password, and click Save to exist.

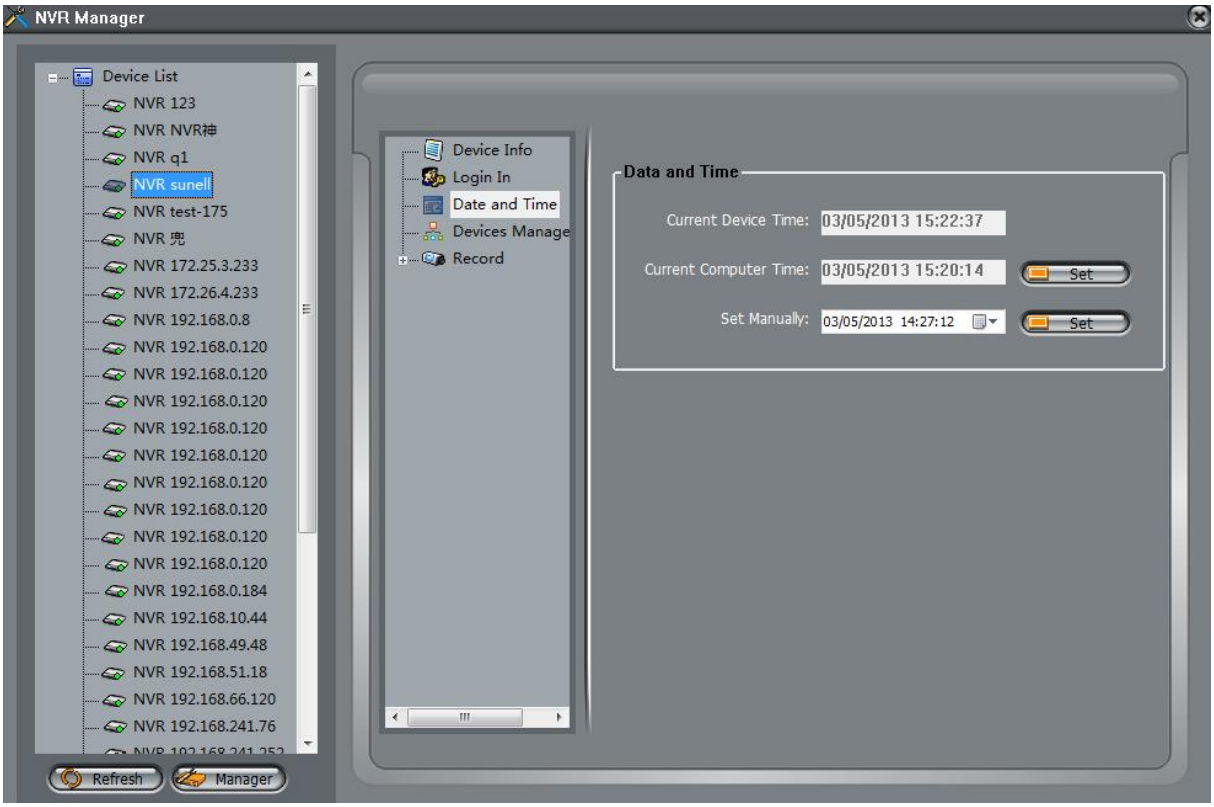
**---- End**

## 3.2.2.3 Date and Time

Change the data and time of NVR.

**Step 1** Choose **device manager > NVR management > Date and time** enter configure interface, as shown in Figure 3-23.

Figure 3-23 Date and time setting interface




**Step 2** Change the NVR date and time

Click the **Set** button behind the Current Computer Time to sync the time from PC to device.

- Set the Computer current time to be NVR time.
- Set manually to change time.
- Click  button to call the date activeX.
- Set the date.
- Input the time after the date.

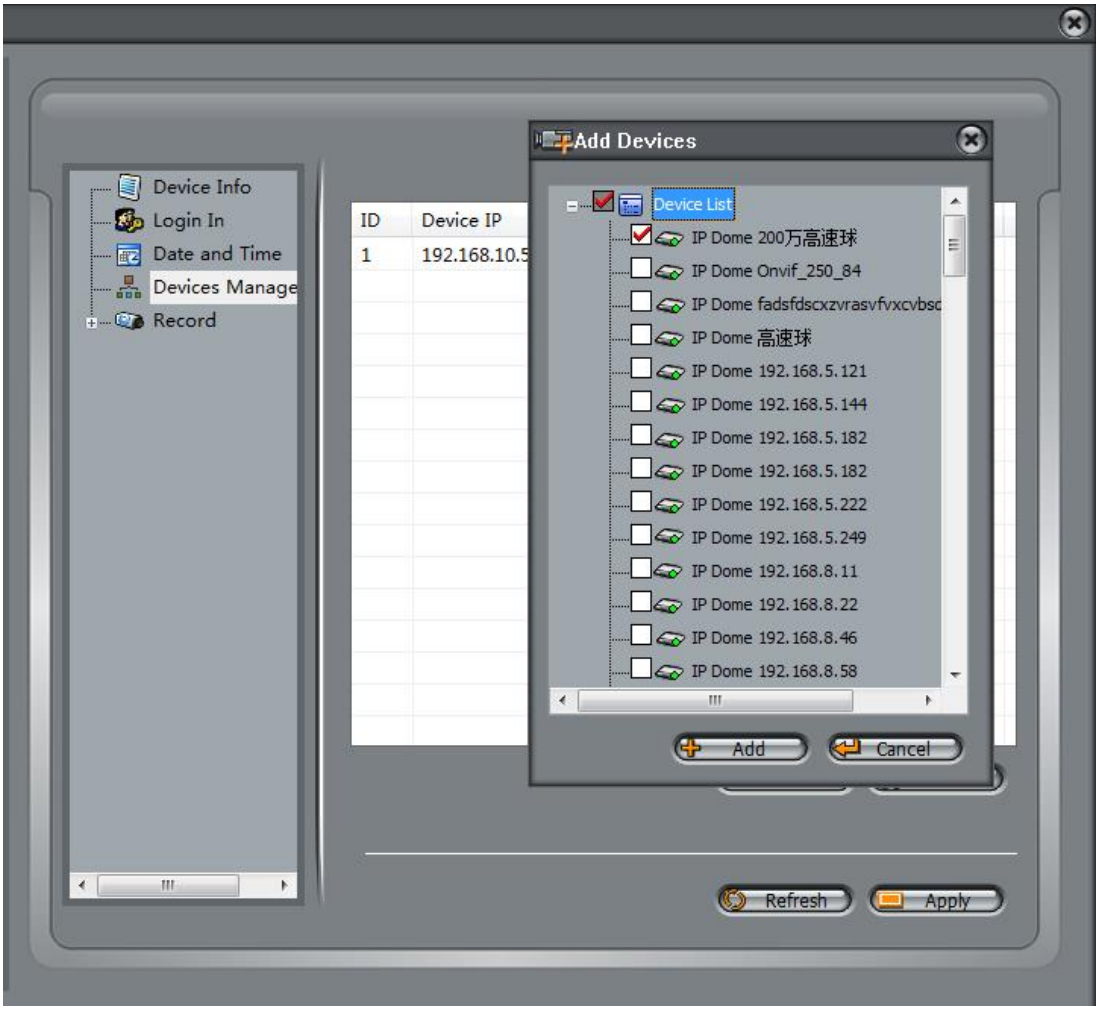
**---- End**

## 3.2.2.4 Device management

Add / Delete the IP cameras to NVR through the Device management.

**Step 1** Select **Device manager->NVR management->Device management** enter the device manager interface show in Figure 3-24.

Figure 3-24 device management




**Step 2** Select the cameras and click Add.

Call the adding device interface, like Figure 3-25 To add all the network cameras.

**Step 3** Select the cameras which you want to add into the NVR.

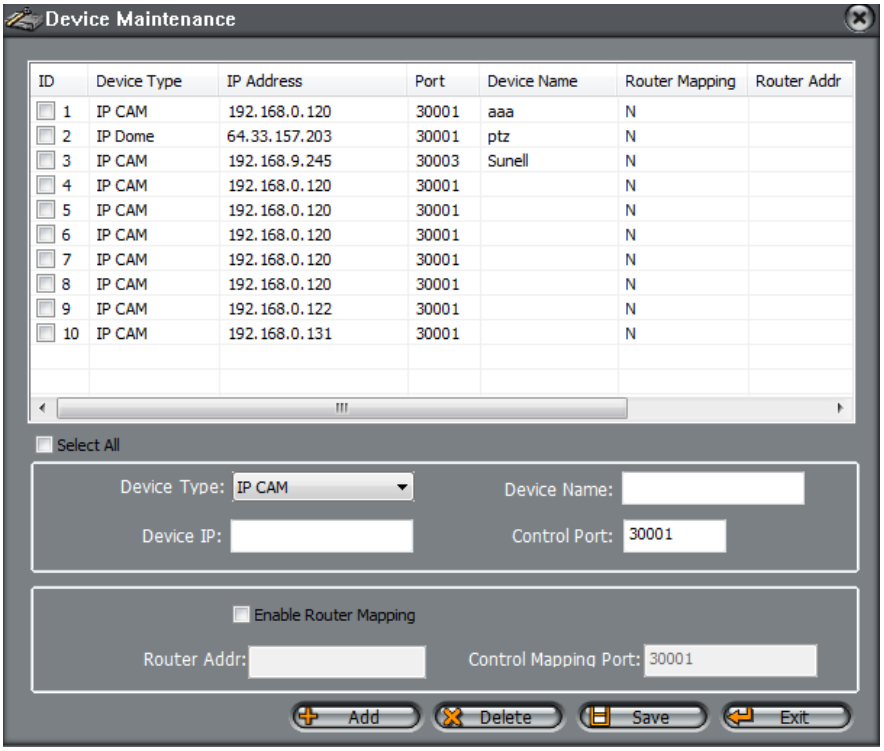
**Step 4** Click Add to call the added ok, click OK, add the device successfully and exit the interface.

**NOTE**

Select the devices which you want to delete, click delete then can delete the cameras which you added

**Step 5** Click **Appy** to call the configure successfully interface; click OK to save the configuration.

Figure 3-25 Add device




**---- End**

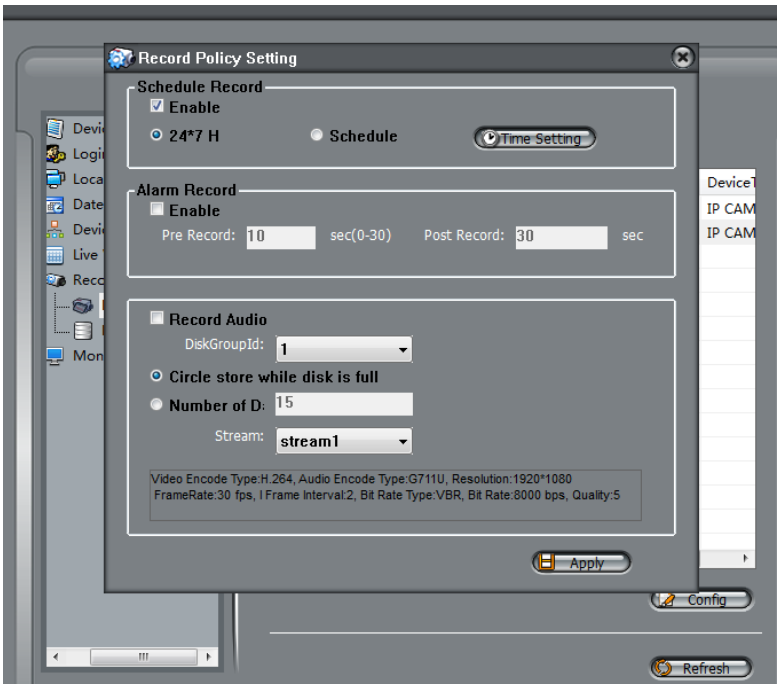
## 3.2.2.5 NVR Record

NVR record can set the Record Policy and Record Storage.

**Record Policy**

**Step 1** Select device manager->NVR management->Record->Record Policy enter the record policy interface show in Figure 3-26.

Figure 3-26 record policy




**Step 2** Select the device and click Configure.

After promote the Record Policy Setting then can set the Schedule record, Alarm Record, audio record etc.

**Step 3** Set the policy which you need.

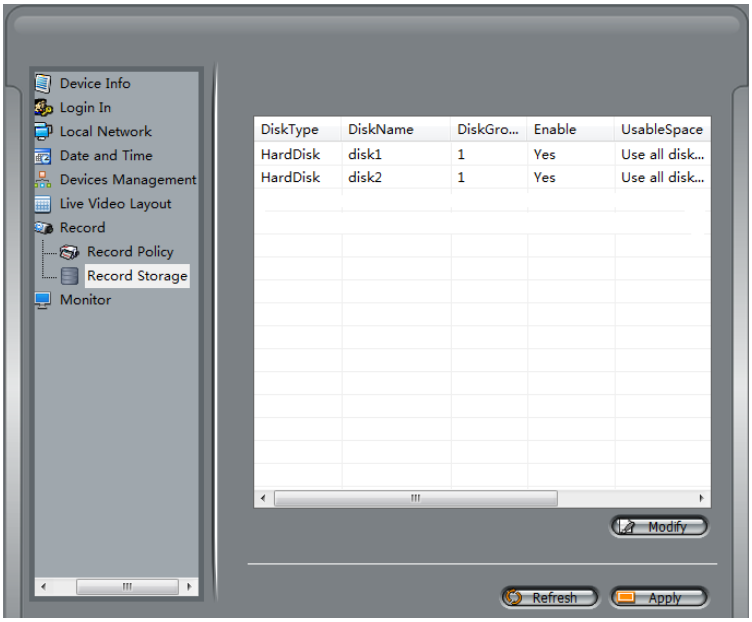
**Step 4** After set the configure click Apply to successfully setting.

**---- End**

**Record Storage**

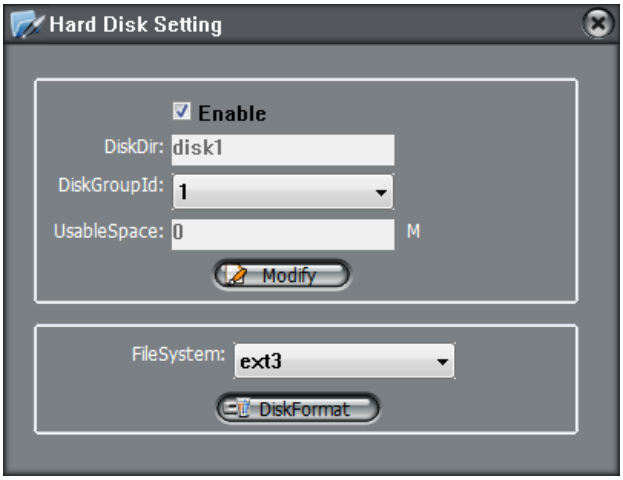
**Step 1** Select device manager->NVR management->Record->Record Storage. Enter the record storage interface show in Figure 3-27.

Figure 3-27 Record Storage




**Step 2** Select the Hard Disk and click Modify enter the path setting interface show in Figure 3-28.

Figure 3-28 Hard Disk Setting




**Step 3** Select Enable.

**Step 4** Select the DiskGroupID.

**Step 5** Input the UsableSpace.

**Step 6** Click Modify to save the configuration and exit the interface.

**Step 7** Select the file system.

**Step 8** Click DiskFormat to format the disk. It will ask you all the information which has been saved in Disk will be cleared, if yes, then it will start to format.

**---- End**

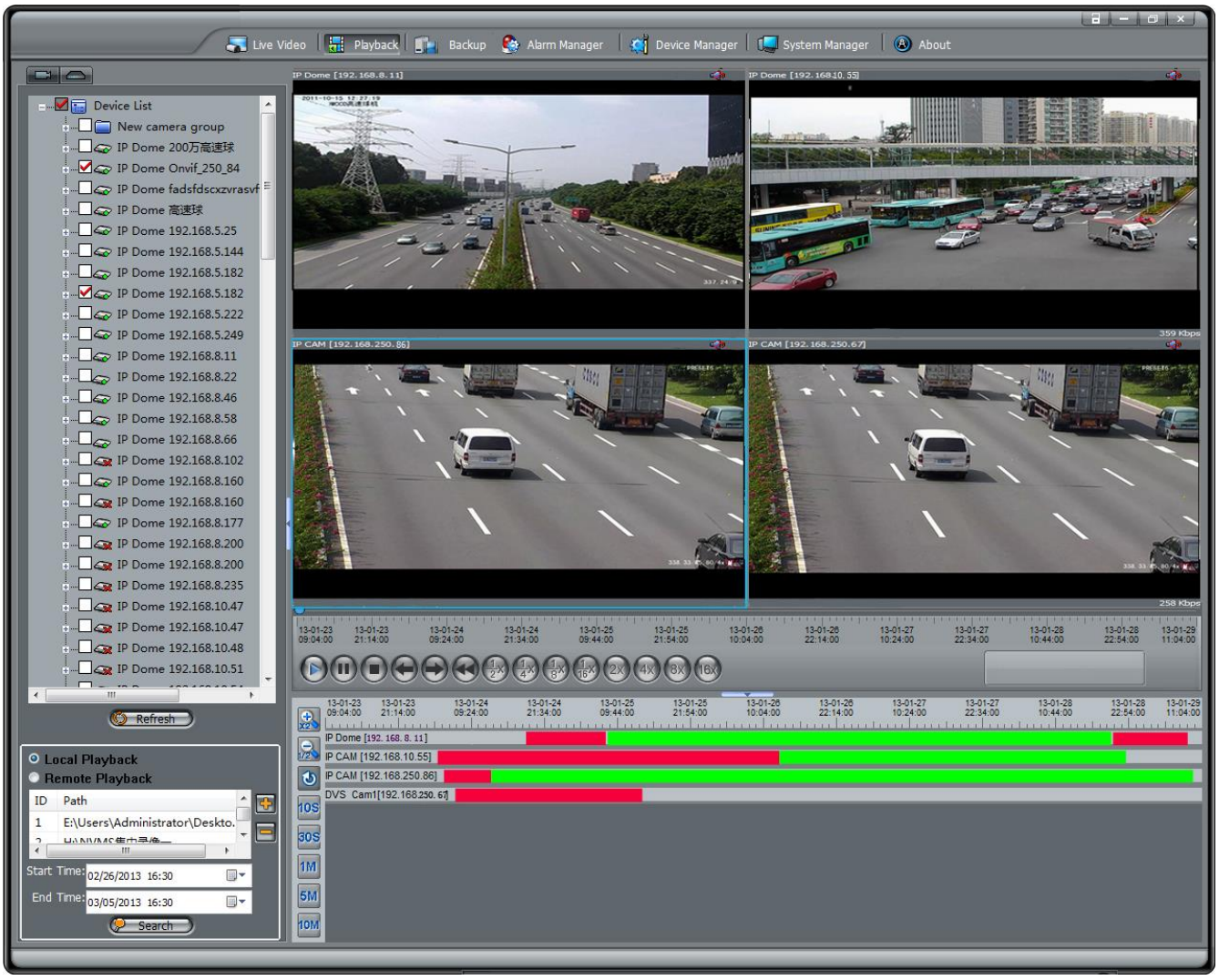
# 4 Playback

## 4.1 Camera Record PlayBack

**Step 1** Choose **playback > Record Playback**,

Then click  , the Camera Record playback interface is displayed, as shown in Figure 4-1.

Figure 4-1 Record playback




**Step 2** Select the camera which need to playback,

Click one from the list at the left side, icon  means this camera has been selected, icon  means camera has not been selected.

**Step 3** Select recording path,

Recording path includes:

- Local Playback
  The local playback is played record files of the concentrate record on computer.
- Remote Playback
  The remote playback is played record files on SD card in device and NAS.

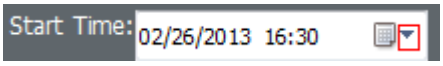
If you want to add other local store path, please click the  button, and choose the store path in pop-up window as shown in Figure 4-2.

Figure 4-2 Add path interface


**Step 4** Recording show.

After select the device and date, the live video area will display the recording status at the bottom. Red mark means alarm video, green mark normal video. The playback video will be displayed above the time axis

**Step 5** Select query time.

Click red box in 

button, the Date Time Picker is displayed. Respectively set values of **Start Time** and **End Time** in the area boxes.

**Step 6** Playing Playback.

Click  play button to play playback.

: It is the play, pause, stop, previous frame, next frame, slowly speed, 1/2 speed, 1/4 speed, 1/8 speed 1/16 speed, 1/16 speed, 2 speed. 4 speed, 8 speeds 16 speed.

: It is the zoom in, zoom out, default, 10 seconds zoom in, 30 seconds zoom in, 1 minute zoom in, 5 minutes zoom in and 10 minutes zoom in button. These buttons could control the scale of time line.

Choose cameras which you want to playback in device list and input searching time between beginning and end time. When you click the search button, the record files will be showed on the time line by different color. The green color means schedule record, the red color means alarm record and the gray color means no record

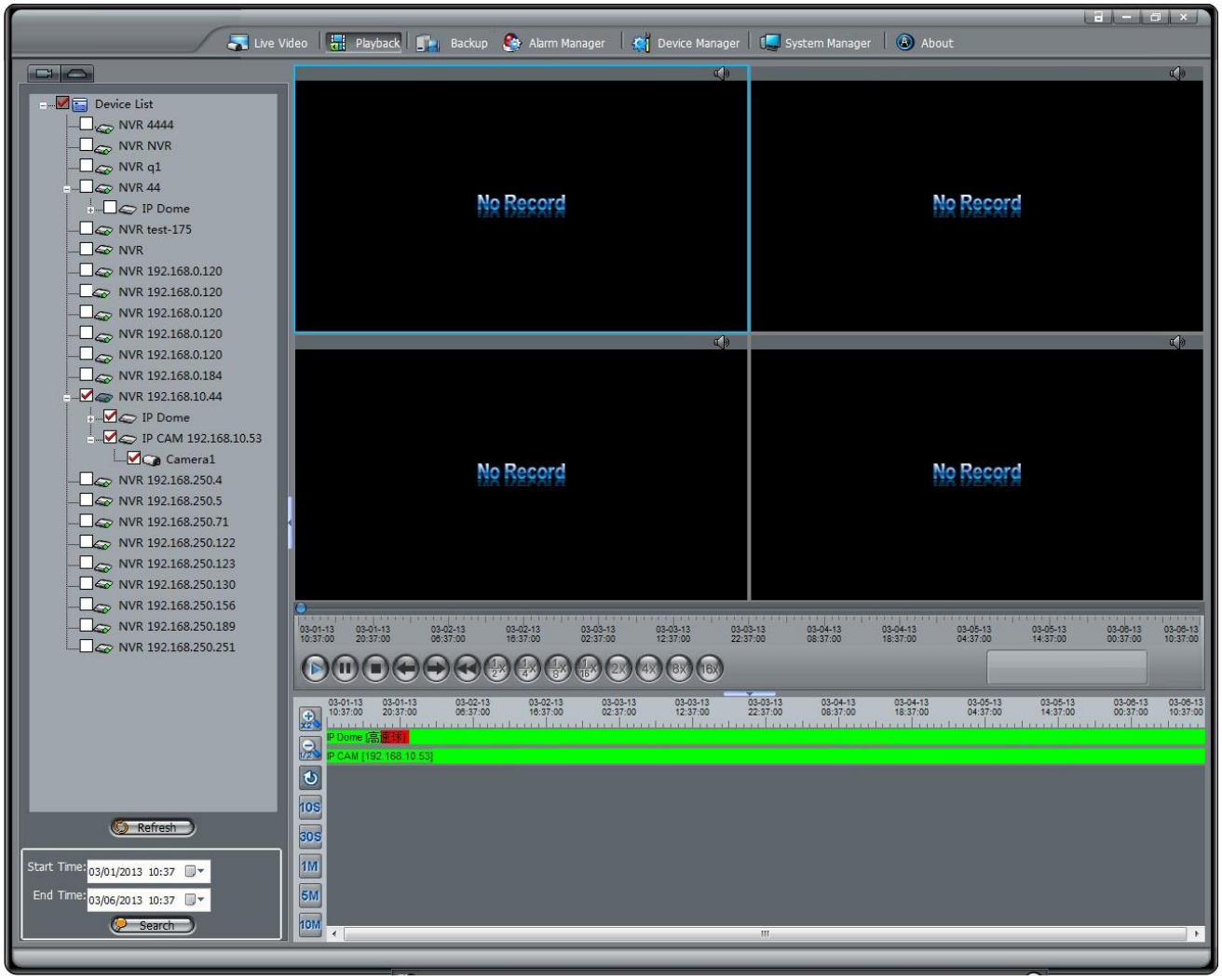
**---- End**

## 4.2 NVR Playback

Choose **Playback > Record Playback**,

Then click , the Camera Record playback interface is displayed, as shown in Figure 4-3.

Figure 4-3 NVR record Playback interface




**NOTE**

Query the start-stop time not more than 7 days, split screen display will be selected in accordance with the device for automatic screen. Green color is schedule record, red color is alarm record. Grey color is no video. Local path will read the video save path automatically.

## 4.3 FTP Record PlayBack

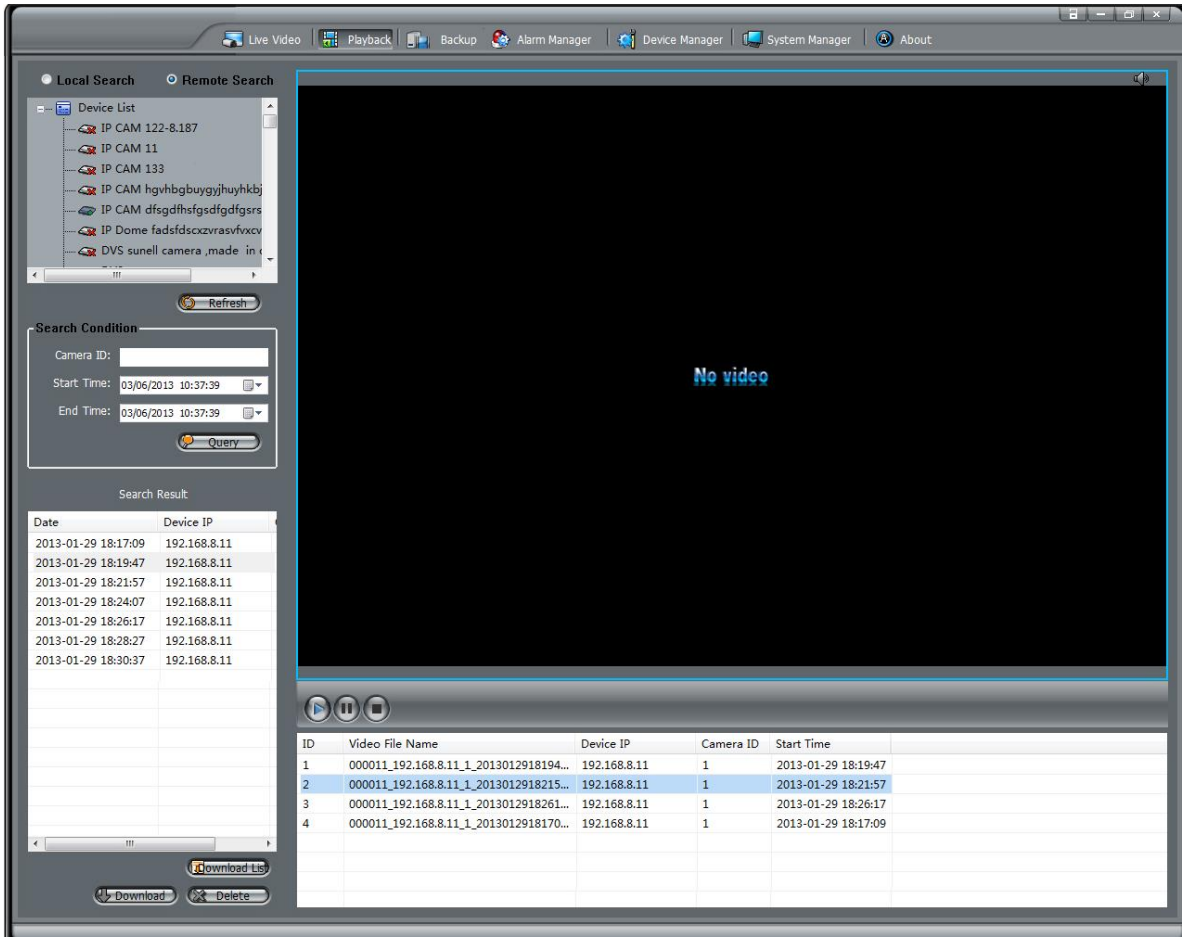
FTP Record includes Local search and remote search.

**Step 1** Choose **Playback > FTP Record PlayBack**,

The FTP Record Playback interface is displayed, as shown in Figure 4-4.

**Step 2** Select the device which you need to query.

Figure 4-4 FTP record Playback interface




**Step 3** Select query way.

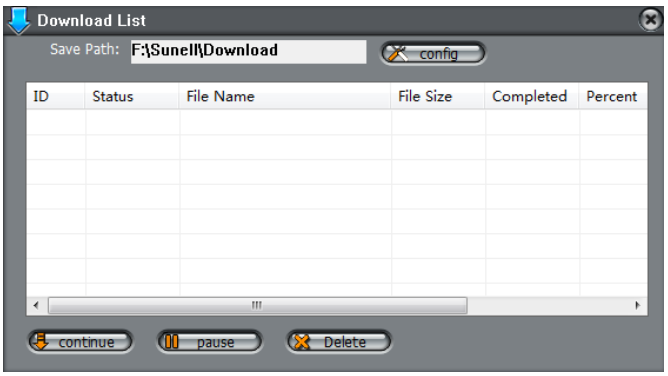
- Local search

1. Check Local search,
2. Input the search condition
3. Click **query** button.
   It will display the FTP recording files at the bottom of Search Result.
4. Play Playback
   Double-click the FTP files which you want to play, the FTP files will display on the right-bottom of the **FTP recording playback** interface too, and then click  button to play the Playback.

- Remote search

1. Check remote search,
2. Input search condition.
3. Click **query** button,
   The FTP recording files will display at the button of Search Result. Select the FTP recording files which you want to download.
   Click **Download** button to download the FTP recording files to local disk.
   Click **Download List** button pop-up the **Download List** interface, as shown in Figure 4-5.

Figure 4-5 Download List interface




In this interface you can configure the Save path of FTP recording files; continue, pause, and delete download.

**Step 4** Paly

Select the required FTP recording files at the bottom of Search Result, click  to play.

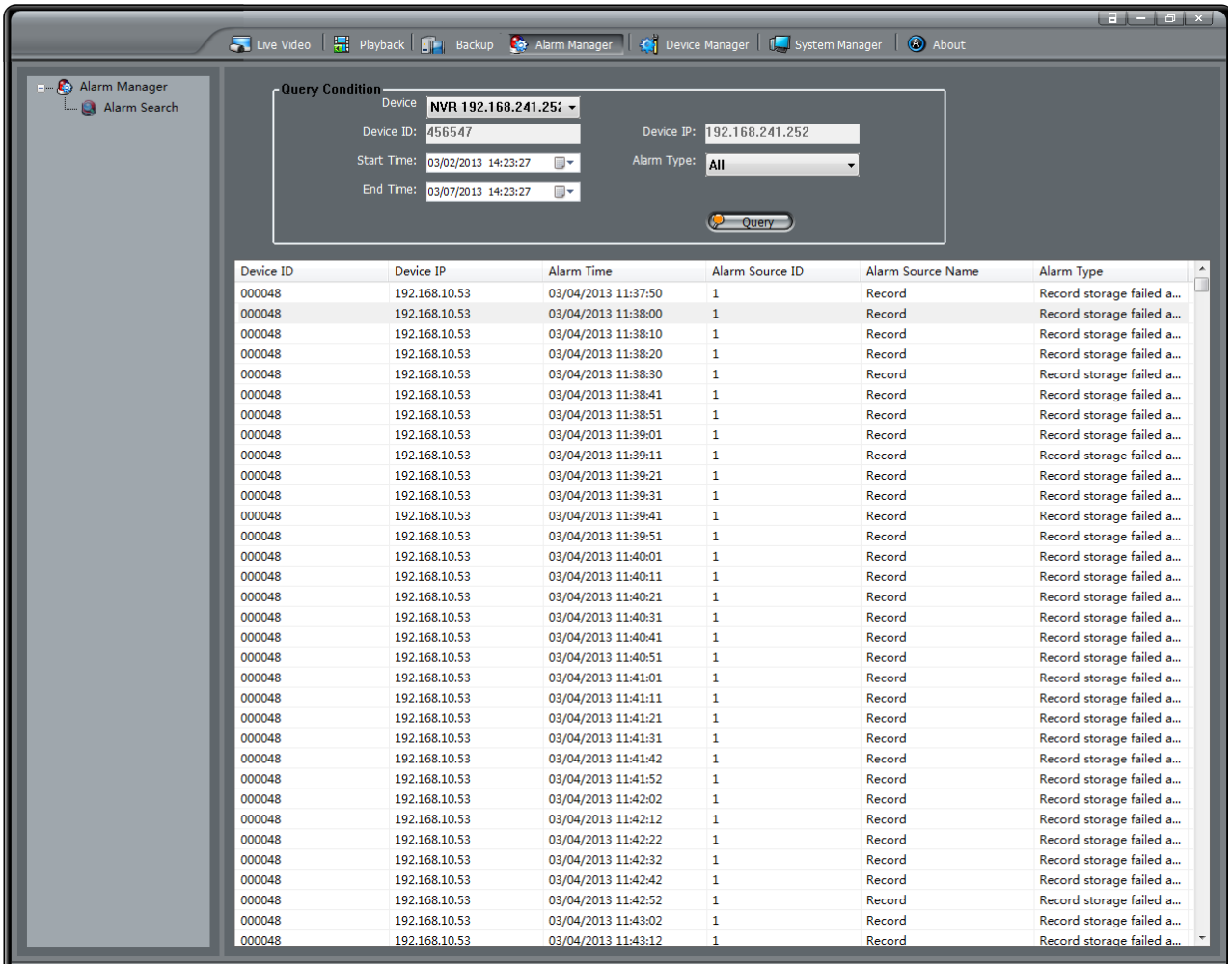
**---- End**

# 5 Alarm Manager

**Step 1** Choose **Alarm Manager**,

The alarm Manager Interface is display in Figure 5-1.

Figure 5-1 Alarm Manager Interface




**Step 2** Select the required device from the **device** drop-down list box.

**Step 3** Respectively set the values of Start Time and End Time.

**Step 4** Select the required Alarm Type.

Alarm type include: all, I/O Alarm, Motion Alarm, Occlusion Alarm, Video Loss Alarm, Disk IOE Error Alarm, Disk Full alarm, Disk not exist alarm and Record storage failed alarm.

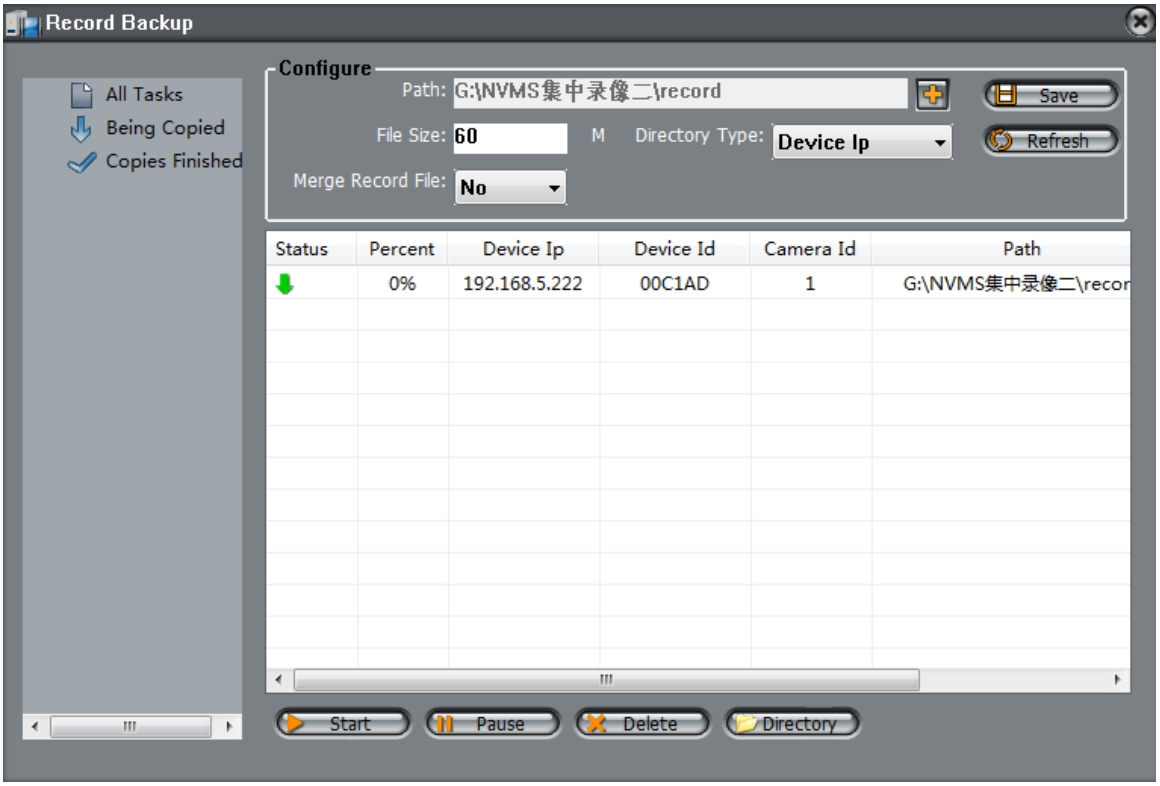
Click **query** button, the result will displayed at the bottom of Alarm Manager Interface.

**---- End**

# 6 Backup

**Step 1** Choose the exist recording files in the playback interface, left- click long from left to right sliding recording files section which need to backup; right click the selected files section pop-up the **backup** dialog box. Click backup into the backup interface, as shown in Figure 6-1.

Figure 6-1 Backup interface




**Step 2** Choose the recording save path, then click **save**.

**Step 3** Set value of file size, the size of file size is not less than 128M.

**Step 4** Choose Subdirectories type.

**Step 5** Choose whether merge record files.

**Step 6** Click **start** button to record.

**---- End**

# 7 FAQ

## 1. Connection with the client, attention should be paid what?

Install "DirectX 9.0" more than the software version of the graphics acceleration; "DirectDraw" to speed up enabled; PC hardware requirements for the independence of more than 128M memory card.

## 2. Why can not carry on local record?

- First of all, check SD-card whether the fault, or whether or not inserted into the SD-card slot;
- Check the "local recording - record store" and "plans to video" and other parameters are configured whether or not correctly;

**NOTE**

Local recording is IP Camera device to record SD-card.

## 3. IP Camera Thermal issues

IP Camera internal circuits have adopted the industry-level low-power chips, heat small. Heat sink is directly connected to the equipment chassis in order to increase heat dissipation IP Camera, improve IP Camera's useful life.

## 4. Network connection of video signals do not show

check reticle Whether exposure to good; or to IP camera line and the video monitor connected, to see whether the video signal, if have no, Note the camera problems; If there are images show a direct connection, please check your network connection is open, and then Check whether the computer system to install DirectX 9.0, DirectDraw is enabled to accelerate.

## 5. Can't control PTZ or the ball machine?

- Detection of wiring is correct;
- Check the settings are correct. This setting should be in the "hardware equipment→PTZ";
- Address set with PTZ or ball machine in line with the allocation of parking spaces;
- Confirm whether the agreement to match, for more information you can get in touch with product supplier.

## 6. How to log network with the client?

- If the client login, the first choice of log IP, This operation is in the PC card when the multi-client fixed network adapter to bind. Client default super user name and password are admin, case sensitive.
- During his visit IP Camera equipment need to enter a user name and password, by default are admin, case sensitive.
- LAN network, log in, the client will automatically search for the IP Camera is connected equipment IP. If you need access to the IP address not found, then the computer with the IP Camera network connection problems, check your computer's IP Camera and IP address settings are correct, cable connection is correct. Finally, through the "procedures"→"Run", type "ping <IP Camera ip> -t", To see if "ping" of the pass. If the "ping" had, and then landing to the network.
- WAN network, the login client, first of all need to add equipment, Click on "Device Manager→ equipment maintenance", IP Camera manually add devices such as IP address information, the save operation, can be a normal visit to IP camera equipment.

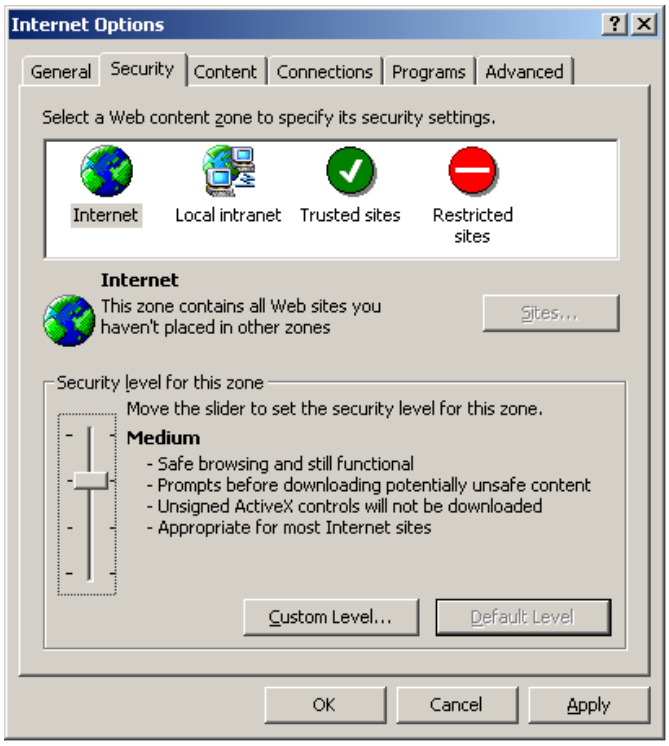
## 7. How to access the "IP camera" through IE?

**Step 1** First need to set the IE ActiveX control:

Right-click 

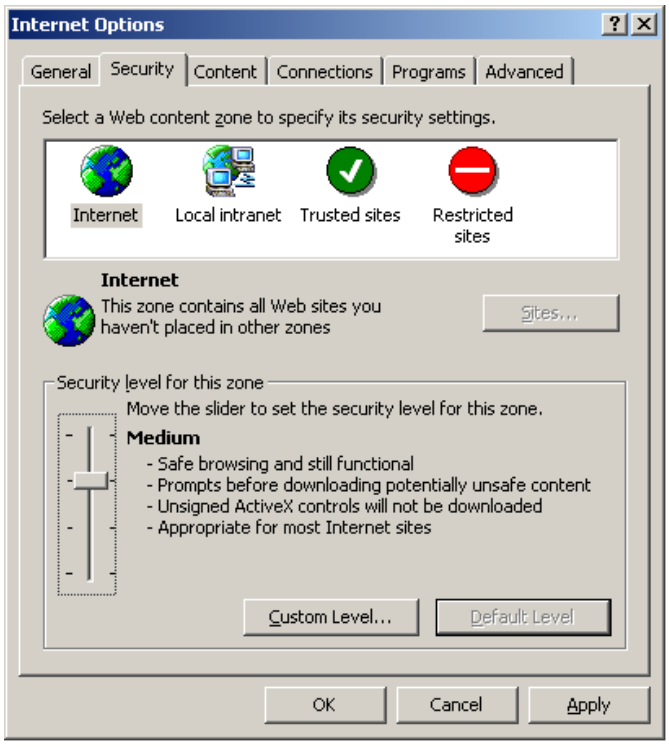
icon, and Select "Properties" options, the system pop-up dialog box as follows in Figure 7-1.

Figure 7-1 Internet Options interface




**Step 2** Select the "Security"→ "Custom Level", the system pop-up dialog box as follows in Figure 7-2.

Figure 7-2 security




Option "Download unsigned ActiveX controls" set to enable, or set the Internet security to the minimum directly.

**Step 3** Setting completed, Left click on the desktop 

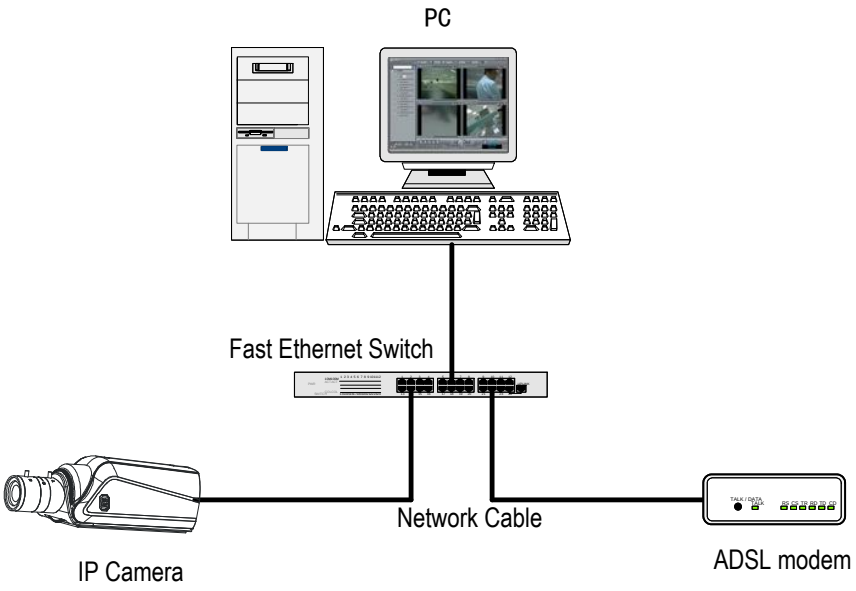
icon, Open the IE browser, the IE browser's address input column you want to visit the IP Camera Host IP address, click the enter key (ENTER), the login dialog box enter the correct user name and password to access the IP Camera equipment .IP Camera equipment default user name and password are admin, case-sensitive.

**---- End**

## 8. IP Camera equipment how to WAN connectivity and access?

- IP Camera equipment can be PPPoE dial-up to connect to the WAN network, to support the DDNS to visit.
- First IP Camera LAN connectivity through the equipment, "network services" within the PPPoE and DDNS (www.3322.org Sign up for a free domain name) configuration parameters. After the success of the application parameters, need to restart only after the dial-up equipment.
- Open the IE browser directly in the address bar enters the DDNS domain name server address to access IP Camera equipment. Enter the correct user name and password to enter the parameter setting interface of the IP Camera, in the "device configuration→ADSL network" can query WAN equipment IP Camera Network IP. If you need to visit the client IP Camera equipment, the client only needs to manually add the device with address normal visit.
- IP Camera、Computer and ADSL modem can be connected together with switches. Diagram is as follows in Figure 7-3

Figure 7-3 Connecting diagram




## 9. Why through the client program to connect to the device, the monitor screen in real-time image quality is unsatisfactory?

- IP Camera equipment connected to the default resolution is CIF, Variable bit rate (VBR), the quality of 5 (the quality of 1-7 from low to high), through the bottom of the client video quality adjustment function to change the resolution and quality.
- Resolution from low to high, including the four: Super Low Bitrate QCIF、Low Bitrate CIF、Low Bitrate D1 and High Bitrate D1.
- Bit rate including the two: VBR (Variable bit rate) and CBR (Fixed bit rate).VBR quality is 1-7 of them from low to high.

## 10. SD card support hot-plug it?

- Support, but the devices are advised to avoid the use of hot-plug SD cards, avoid data loss.

## 11. SD card can not be used, how should I do?

- Please check whether the partition SD card, if there was no partition on the first partition in the PC operation.
- Used for the first time will be automatically formatted SD card, make sure that the SD has been the backup data.

## 12. Which external devices can work together with IP Camera?

- IP Camera can be used in conjunction with the keyboard; can access a wide range of control decoders, alarm input and output devices, alarm host, access control systems.