

# CMS User Manual

Thanks for purchasing our products. If you have any doubt or request for our products, please feel free to contact us. The manual is for the video central management system. We keep all the rights to update the manual regarding to the changes or enhancement of the product function. And we will also improve and update the software described in the manual regularly. The details of updates will be added into the new manual without prior notice. The manual is to offer the guide to users only. Please take the actual product as standard.

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# 1. System Summary

## 1.1 System Introduction

This CMS is the latest video central management system, which is designed and developed by our company. It is the updated version based on the old version. Comparing to the old version, This CMS integrates all the advantages of the old CMS and IPClient software and improves upon stability and usability. This software improve the functions of image slide show, remote playback, circulate record and compatibility of other brand products, besides the user familiar functions of plug and play, floating window and MP4 recording.

## 1.2 Function Features

- 1) Device Management: search, add, delete device, and device grouping and so on;
- 2) Image Layout: drag window, floating window, image slide show and multiple display output;
- 3) Channel Recording: normal, timing, alarm record with mp4 format;
- 4) Image Adjust: stream, frame rate, bit rate, lightness, contrast and so on;
- 5) Alarm Linkage: alarm record, alarm snapshot, alarm sound and alarm email;
- 6) Record Playback: remote playback, timeline playback, fast forward, snapshot, video clip and so on.

## 1.3 Operation Environment

O/S: Windows 8/ Windows 7/ Windows XP/ Windows 2003

Monitoring Host Computer Recommended Configuration Table:

Chan nel Num ber	Recommended Intel CPU	Recommended AMD CPU	Memory	HDD
4	Pentium G620	A6-5400+	1G	1T
9	Pentium G620	A6-5400+	2G	2T
16	Pentium G620	A6-5400+	2G	4T
24	i3-3220 + HD6570 graphics	A6-3500 + HD6570 graphics	4G	6T
30	i5-3470 + HD6570 graphics	A8-5600K + HD6570 graphics	4G	8T
36	i7-4770 + HD6570 graphics	A10-5800K + HD6570 graphics	4G	10T

Note: The HDD capacity is calculated depending on video recorded for 10 days.

Old Monitoring Host Computer Recommended Configuration Table:

Channel Number	CPU
1	Intel Celeron D series, AMD Athlon 2800+ and so on
4	Intel Pentium D series, Pentium E21xx series, AMD Athlon 5000+ and so on
9	Intel Pentium E5x00 series, Athlon II X2 250 and so on
16	Intel Pentium E6x00 series, Athlon II X4 640 and so on

## 2. System Function Introduction

Main Interface Introduction: JNVR software main interface has up and down structures. The up area is the video display area, and the down area is the shortcut function area as follows.



Short Cut Menu Introduction: It includes 8 functionality as follows.



Right-click Menu Introduction: It includes 6 categories and 13 functions.



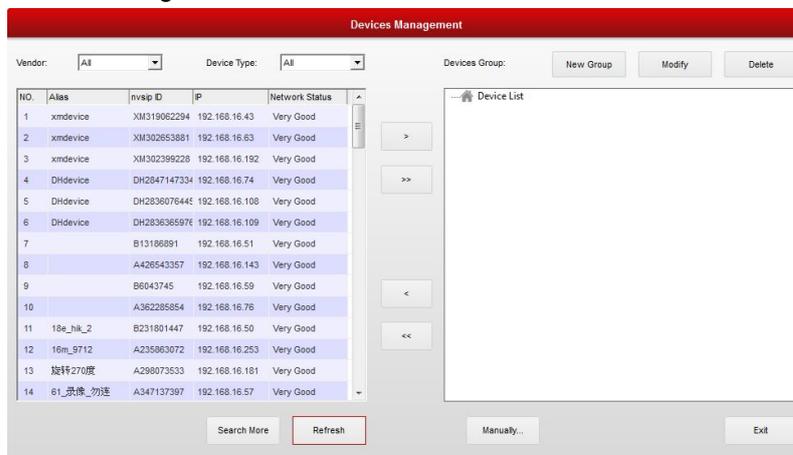
## 2.1 Devices

### 2.1.1 Search Device

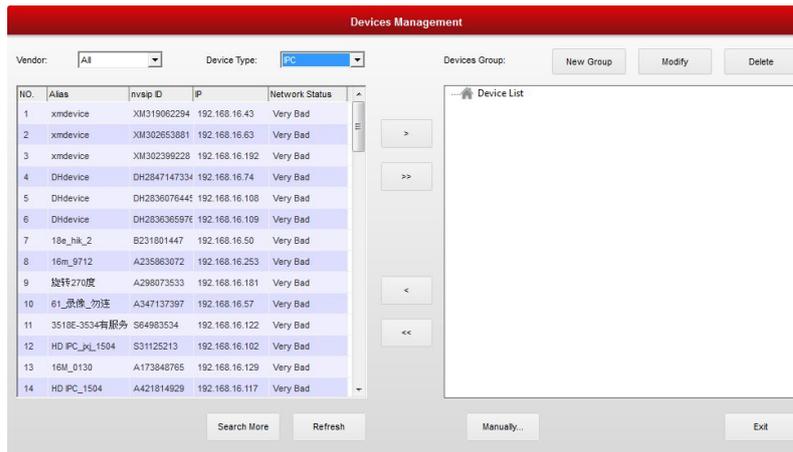
Functionality Instruction: Search and find the IP Camera subject to the conditions through filter.

Operation Step:

1. Click [Devices] button in the shot cut menu at the bottom of main interface to open the device management interface as follows.



2. Click the drop-down list of vendor and Device Type to select the filter condition. The system will search the device subject to the conditions automatically as follow.



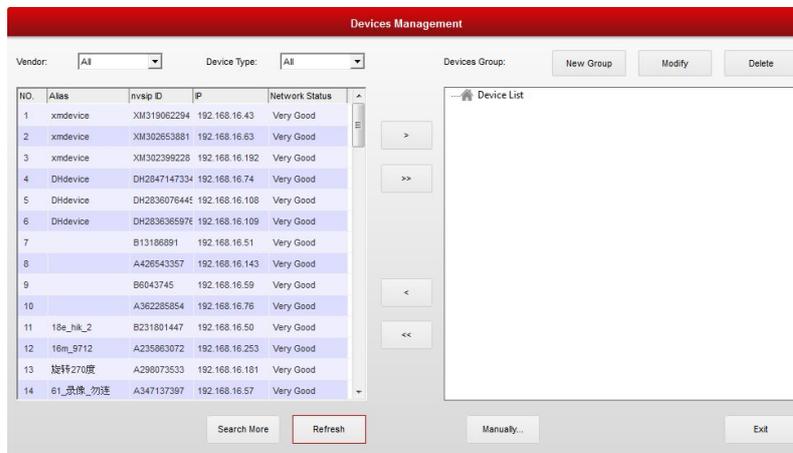
## 2.1.2 Device Group

### 2.1.2.1 Create Group

Functionality Instruction: Used for creating device group in order to manage the device efficiently.

Operation Step:

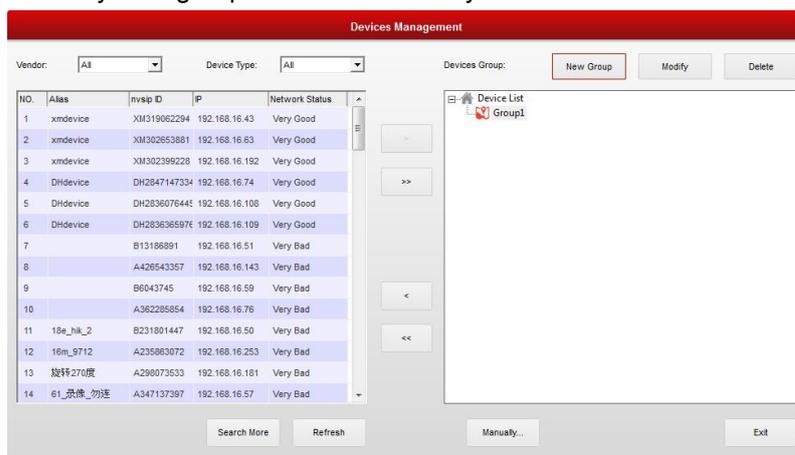
1. Click [Devices] button in the shot cut menu at the bottom of main interface to open the device management interface as follows.



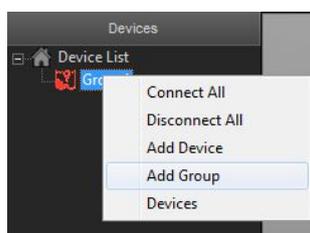
2. Click to select the [Device List] as the above image shows, and click [New Group] button. The system will open Group Management interface as the follows. Input the name of the group.



3. Click [OK] button in the above interface. The system will add the group name into the root directory. The group will be successfully created as follows.



Note: Right click anyone of the groups in the left top device management area of the main interface. In the pop-up menu, you can also open [Group management] interface by selecting [Add Group] as follows.

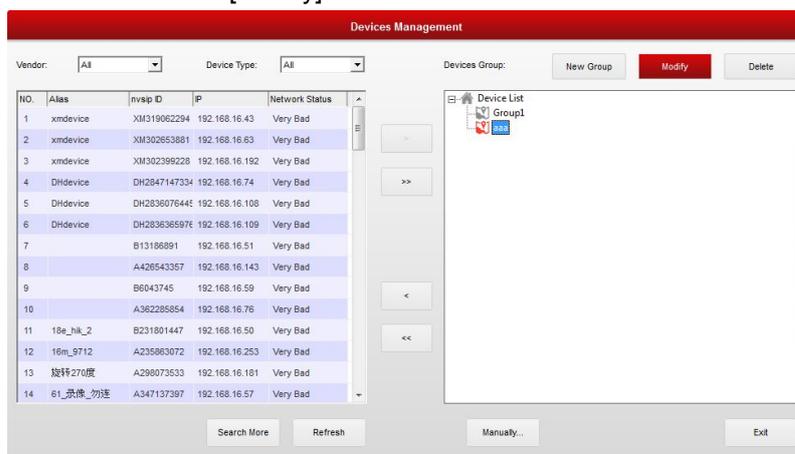


## 2.1.2.2 Modify Group

Functionality Instruction: Used for modifying the name for the device group.

Operation Step:

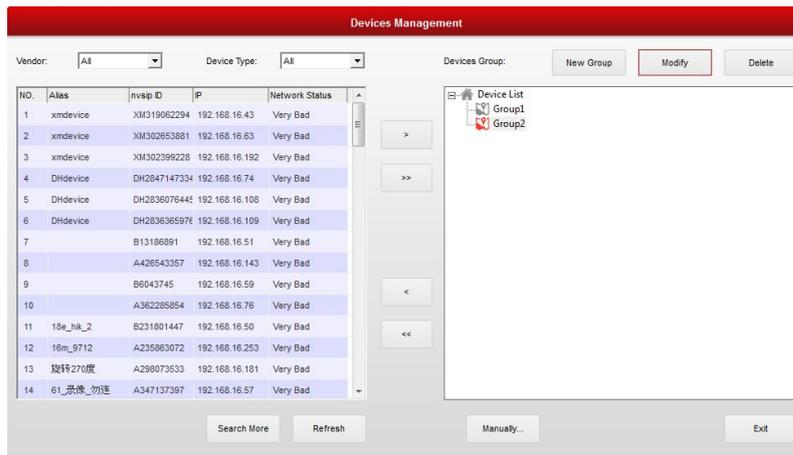
1. Click to select the group which needs modifying the group name in the Device Management interface and click [Modify] as follows.



2. Re-input the group name in the Group Management interface as follows.



3. Click [OK] button in the interface as the above image shows. The root directory will show the group name after modification as follows. Then the modification finish.

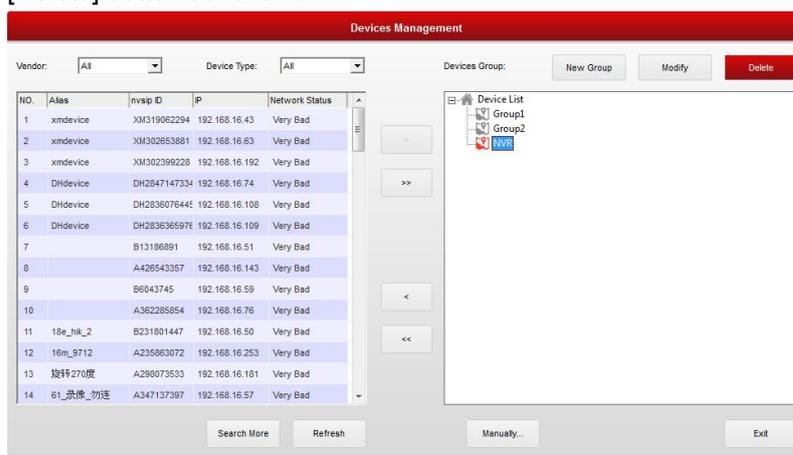


### 2.1.2.3 Delete Group

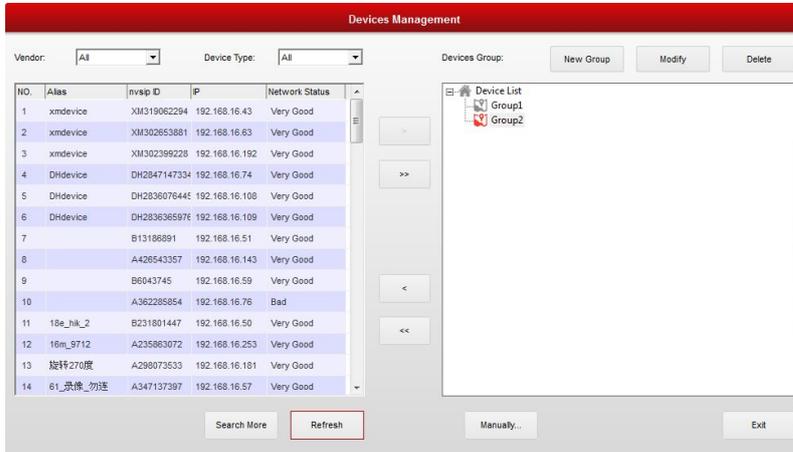
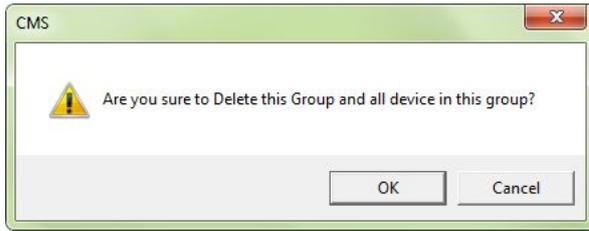
Operation Instruction: Used for deleting the group.

Operation Step:

1. Click to select the group which needs delete in the Device Management interface and click [Delete] button as follows.



2. Click [OK] button in the delete confirmation interface. The system will delete the device group as follows.



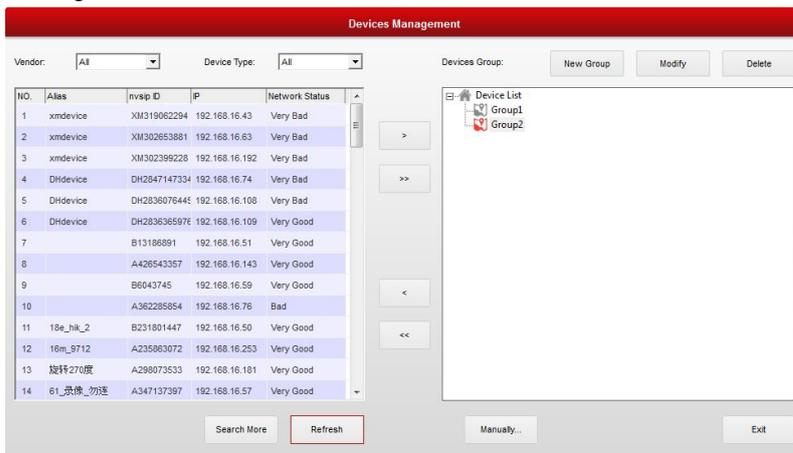
3. Device management can be used for adding, deleting, modifying and search all of IP cameras. You can use it for centralized management for all IP Cameras in the LAN.

### 2.1.3 Add Device

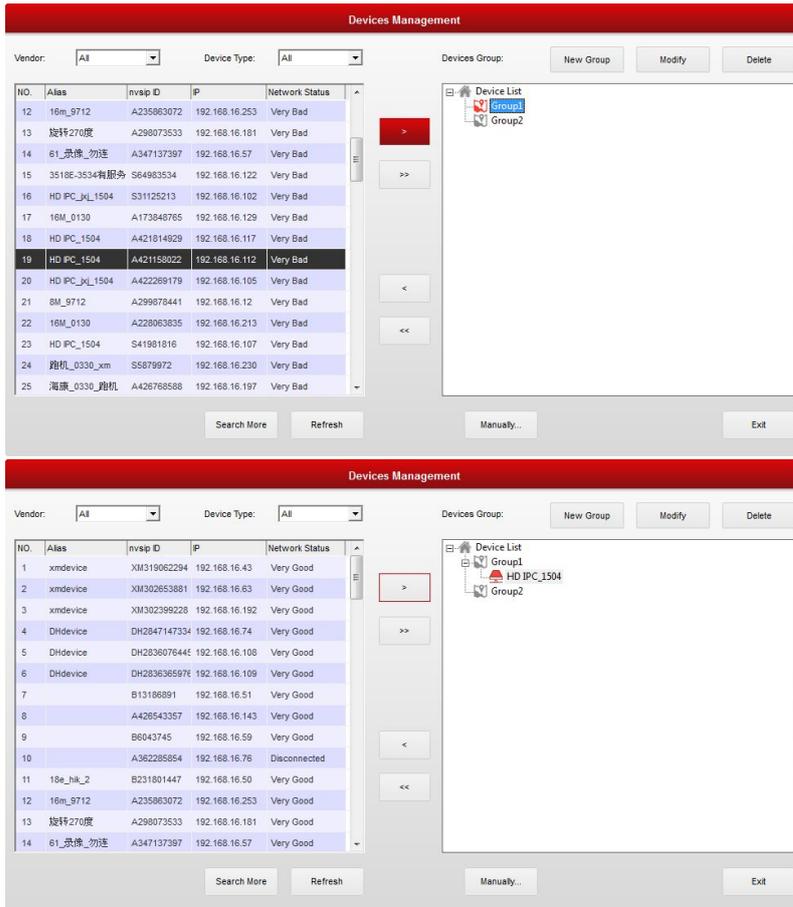
Functionality Instruction: Used for adding the IP Camera that has been searched.

Operation Step:

1. Click [Devices] in the shot cut menu at the bottom of system main interface to open Device Management interface as follows.



2. Click the device searched and need to be added at the above interface. And click [Add] button to move the device to the device group as the follows.



3. Click [Exit] button in the above interface to finish the operation of adding device.

Note:

1. You can also bulk add the device beside add one by one. At the above step 2, click



button to add all the devices.

2. The above adding device operations are in the same LAN after searching and finding the device. If you want to add the device which can't be found, click [Manually] button in Device Management and input the correct NVSIP ID, user name and password of the IP Camera. And then click [OK] button to finish the manual adding IP Camera operation as follows.

Device Config

Device:

Vendor:

Connect Type:

nvsip ID:

Port:

User name:

Password:

Device Config

Device:

Vendor:

Connect Type:

nvsip ID:

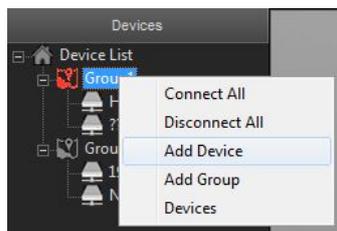
Port:

User name:

Password:

3. Right click any group at the left top of the system interface. Select [Add Device] at the pop

up menu or open device config interface. After inputting the correct information, you can finish the operation of adding device as follows.

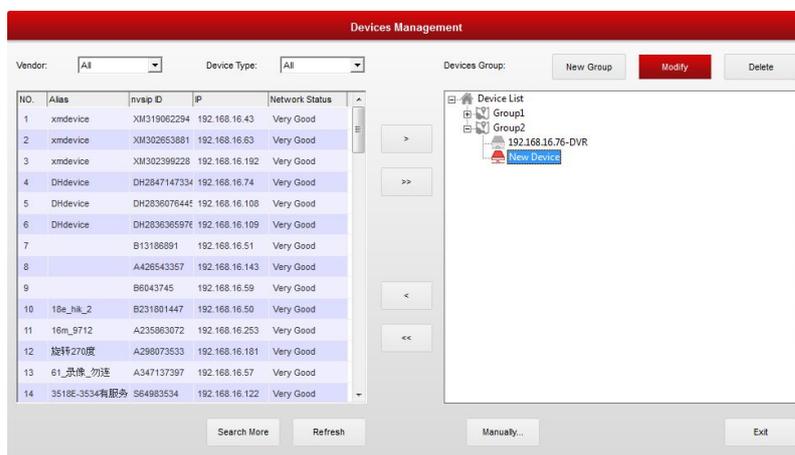


## 2.1.4 Modify Device

Functionality Instruction: used for modifying the IP Camera that has been added.

Operation Step:

1. Click to select the device name which needs to be modified in Device Management interface as follows.

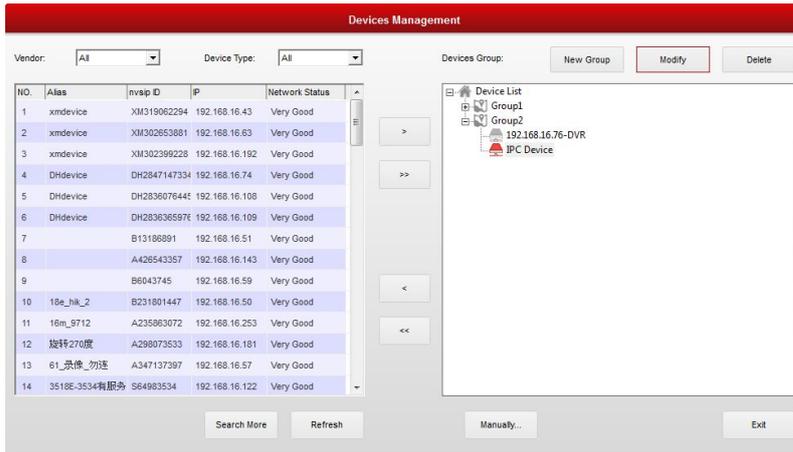


2. Click [Modify] button in the above interface to open Device Config interface as follows.



Note: You can also open the above Device Config interface through right clicking the device name which has been added at the left top of the main system interface and selecting [Modify device spec] at the right click menu.

3. At the above interface, modify the name, user name and password of the selected device and click [OK] to finish the modifying device operation as follows.

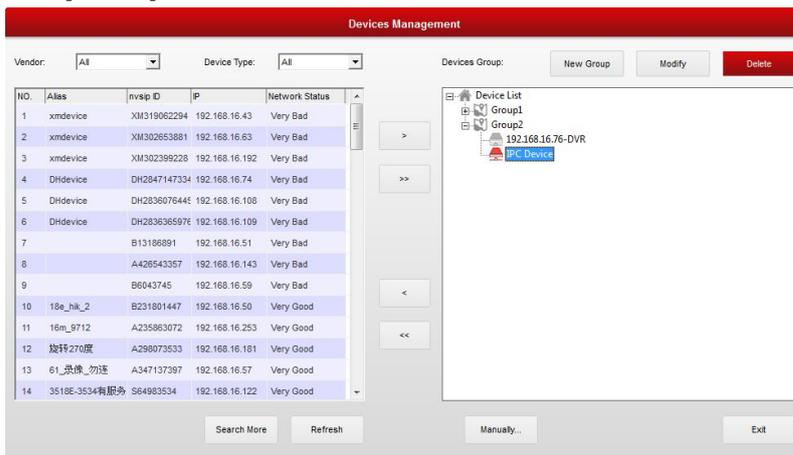


## 2.1.5 Delete Device

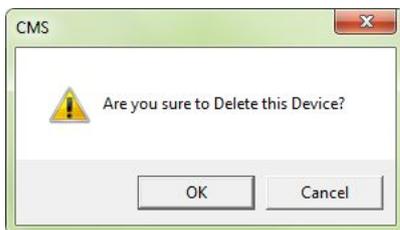
Functionality Instruction: Used for deleting the device that has been added.

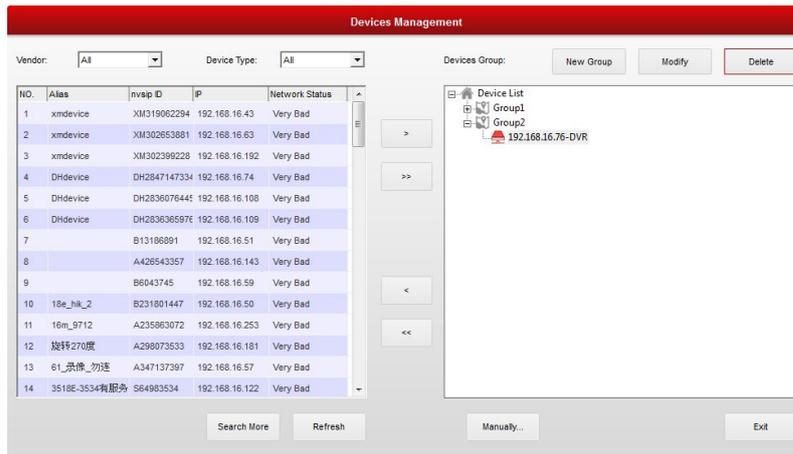
Operation Step:

1. Click the device name that needs to be deleted at Device Management interface and then click [Delete] button as follows.



2. Click [OK] button at the confirmation interface to delete the selected device as follows.





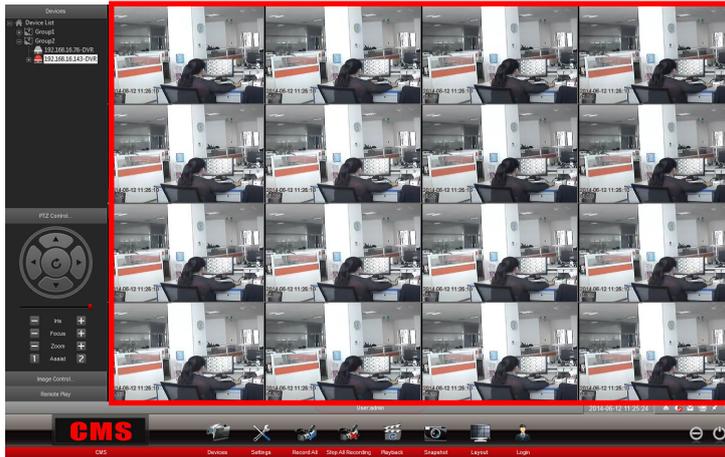
Note: If want to delete the device whose preview image was opened, you need to double click the device name which need to be deleted at the left top of the system main interface. And then you can delete the device following the above steps.

## 2.1.6 Connect Device

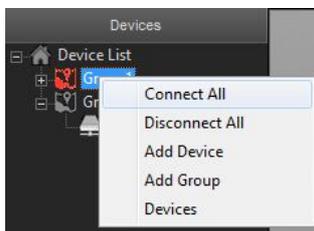
Functionality Instruction: Used for connecting to the IP Camera device which has been added and watching the preview image.

Operation Step: Right click the IP Camera device name which need to be connected at the main system interface and select [Connect Device] at the right click menu. The system will connect open the monitoring image of the device as follows.





Note: Right click any group name at the left top of the main interface. You can connect to all devices of the group through selecting [Connect All] at the right click menu as follows.



### 2.1.6.1 Connect All Channel (Auto- Stream)

**Functional Specification:** It is used for connecting all channels of added devices, including main stream and minor Stream.

**Operating Steps:** In the top left of system main interface, mouse right button single click the chosen connected device name, open context menu, then choose 'Connect All Channel( Auto Stream)', then system can connect all video monitor screens of this device, as follows:



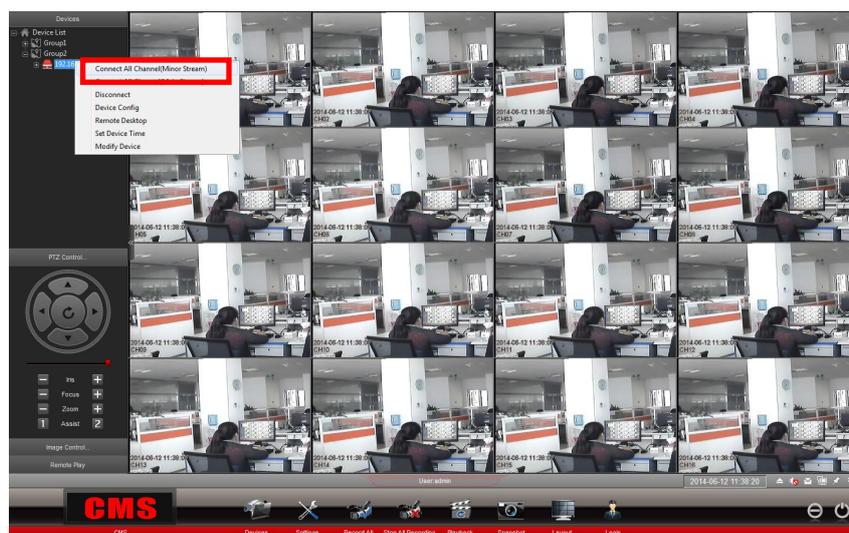


Remarks: Devices connected through 'Connect All Channel (Auto Stream)' function include main stream and minor stream. Usually main stream for local viewing, minor stream for remote monitoring. That is to say, after connecting devices in this way, recording and remote monitoring with different stream size, it is two different size streams.

### 2.1.6.2 Connect All (Minor Stream)

**Functional Specification:** It is used for connecting all channels of added devices, only minor Stream.

**Operating Steps:** In the top left of system main interface, mouse right button single click the successful connected device name, open context menu, then choose 'Connect All Channel( Minor Stream)', then system can connect all video monitor screens of this device, as follows:





Remarks: Devices connected through 'Connect All Channel (Minor Stream)'function only include minor stream. That is to say, after connecting devices in this way, recording and remote monitoring both use minor stream, it is same size streams.

### 2.1.6.3 Connect All (Main Stream)

**Functional Specification:** It is used for connecting all channels of added devices, only main Stream.

**Operating Steps:** In the top left of system main interface, mouse right button single click the successful connected device name, open context menu, choose 'Connect All Channel( Main Stream)' , then system can connect all video monitor screens of this device, as follows:





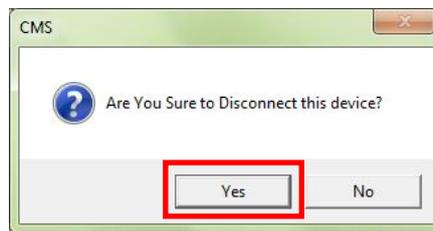
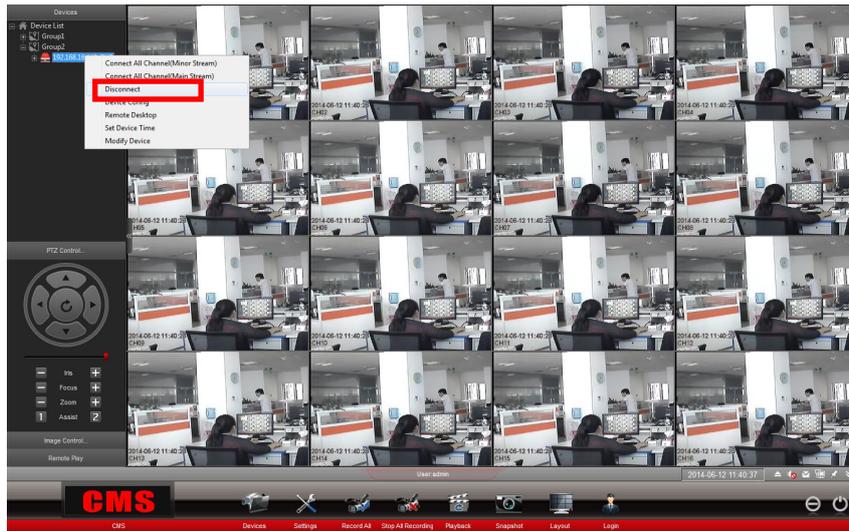
Remarks: Devices connected through 'Connect All Channel (Minor Stream)'function only include main stream. That is to say, after connecting devices in this way, recording and remote monitoring both use main stream, it is same size streams.

#### 2.1.6.4 Disconnect

**Functional Specification:** It is used for disconnecting all video monitoring screens of connected channels, equivalent to delete the channel.

##### Operating Steps:

1. In the top left of system main interface, mouse right button single click the successful connected device name, open context menu, choose 'Disconnect' , then system will open prompt interface to confirm disconnect all channels, as follows:

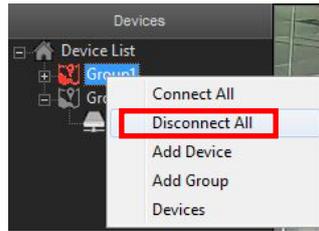


2. As shown above, the mouse single click 'Yes' button, then system can disconnect video monitoring screens of all channels, as follows:



Remarks:

1. In the top left of system main interface, 'Devices' section, mouse right button single click any group name, in pop-up menu, choose 'Disconnect All', then system can disconnect with all devices in the group, as follows. The above description of disconnect function, only for one device.

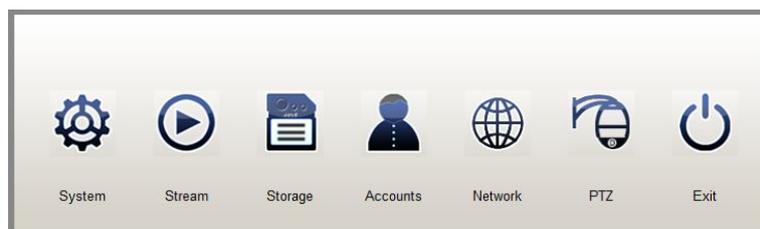


2. The mouse right button single click the chosen video channel screen, open context menu, choose 'Disconnect' ,only disconnect the previewing screen of chosen channel, if choose ;Disconnect All' , it will disconnect all channel previewing screens of the device.

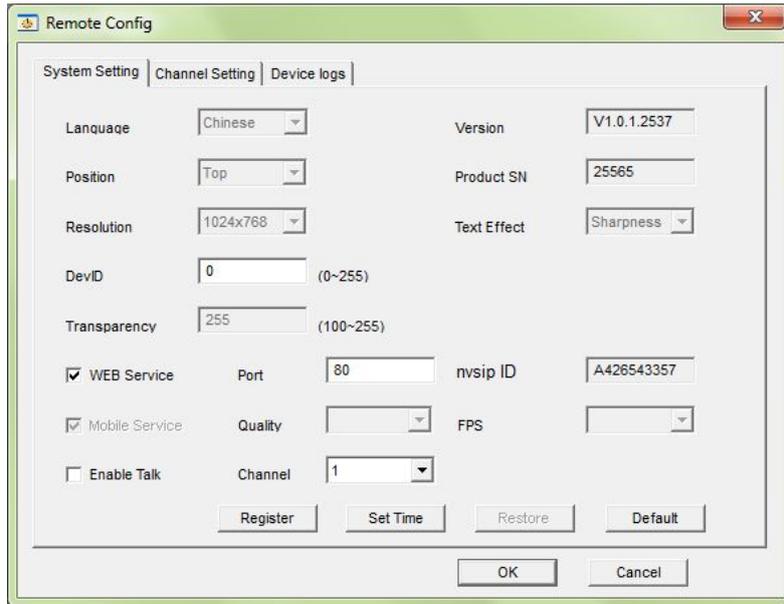
### 2.1.6.5 Device Config

**Functional Specification:** it is used for remote configuring the connecting devices.

**Operating Steps:** In the top left of system interface, mouse right button single click the connected device name, open context menu, choose 'Device Config', then system will open the remote configuration interface of the device. As follows:



IP Camera Device Remote Config Interface



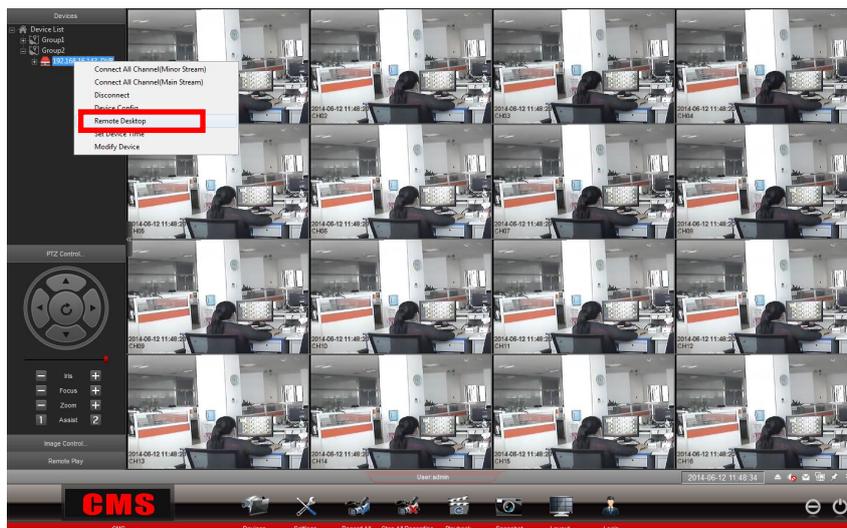
DVR Device Remote Config Interface

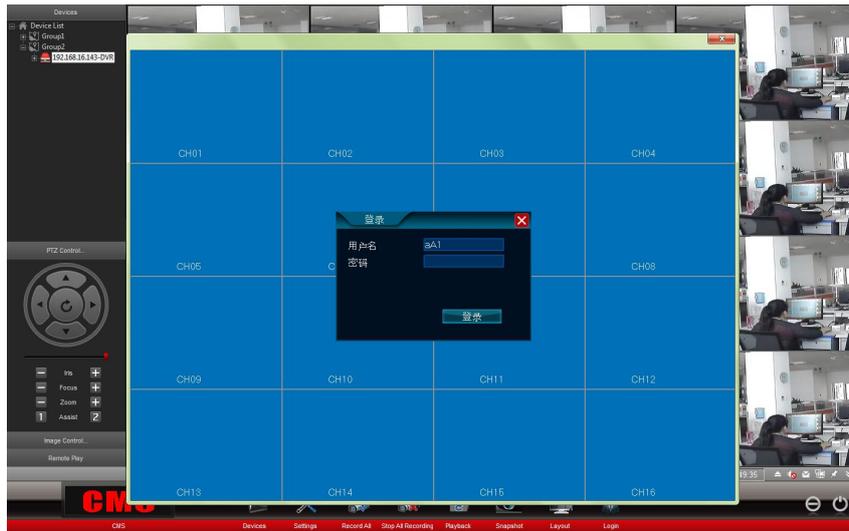
Remarks: The mouse right button single click different devices, the Remote Config Interface is different, Configuration details please according to the actual conditions.

## 2.1.6.6 Remote Desktop

**Functional Specifications:** it is used for remote opening user operation interface, in order to make corresponding operations and settings.

**Operating Steps:** In the top left of system main interface, mouse right button single click connected device name, open context menu, then system open user login interface of the device, as follows:





Remarks:

1. Remote Desktop function only support DVR and NVR products not support IP Camera products.
2. The mouse right button single click video pictures, open context menu, choose 'Remote Desktop'; can open the function, too.

### 2.1.6.7 Set Device Time

**Functional Specifications:** It is used for time setting of connected device; It will adjust the connected device time synchronized with PC.

**Operating Steps:** In the top left of system interface, mouse right button single click connected device name, open context menu, choose 'Set Device Time', then system will adjust the connected device time synchronized with PC. As follows:



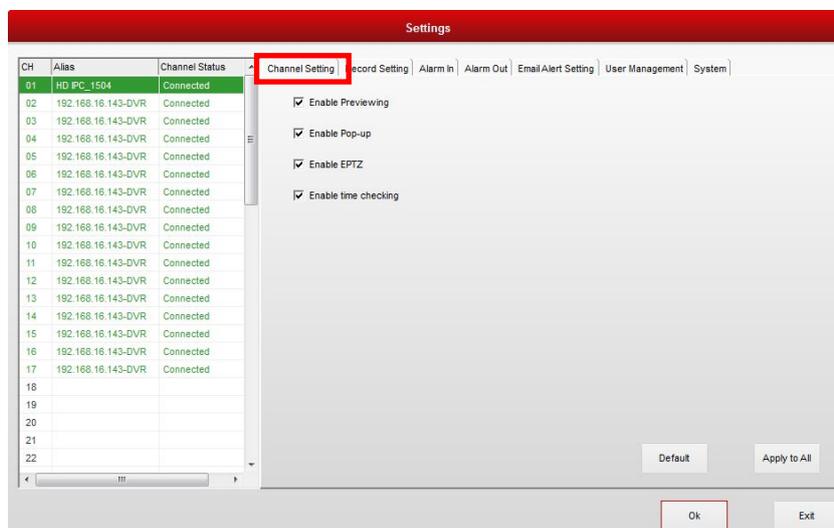
## 2.2 Settings

Settings includes 7 sub-settings, it is Channel Setting, Record Setting, Alarm In, Alarm Out, Email Alert Setting, User Management, System. By setting the 7 sub-settings above, can complete all parameter settings of connected IP camera devices, also can make parameter settings of JNVR system.

### 2.2.1 Channel Setting

**Functional Specifications:** it is used for setting stream size, OSD information of the channel, privacy masking and open pop-up window function, etc.

**Operating Steps:** The mouse single click shortcut menu 'Setting' function, or the mouse single click system main interface, in pop-up context menu, choose 'Settings', then open 'Settings' interface, as follows:



**Function Details:**

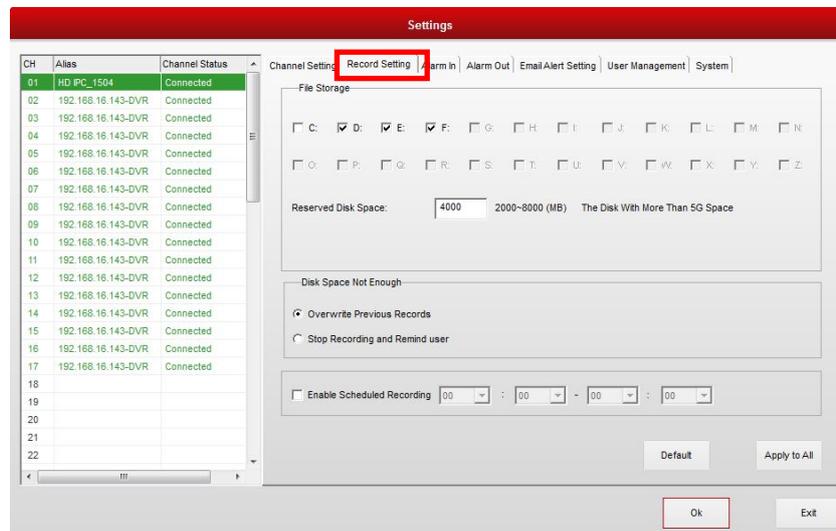
Function	Functional Description
<b>Enable Previewing</b>	Choose the option, all channel preview window will show monitoring pictures, otherwise, the channel screen will be black, it won't effect record and screenshot function.
<b>Enable Pop-up</b>	Choose the option, all channels can use pop-up window function, otherwise, the channel picture can't be shown on desktop pop-up window.
<b>Enable EPTZ</b>	Choose this option, all channel previewing pictures can be zoomed out, after zoom out, can drag mouse to check different areas.
<b>Enable Time Checking</b>	Choose this option, all channel corresponding devices open time checking function, it can proofread time with time server, ensure accuracy of the device time.

## 2.2.2 Record Setting

**Functional Specifications:** it is used for setting record file memory disc, process mode for insufficient storage space, enable scheduled recording, etc. functions.

**Operating Steps:**

1. The mouse single click shortcut menu 'Settings', or the mouse single click system main interface, in pop-up context menu, choose 'Settings', then open 'Setting' interface, as follows:
2. The mouse single click 'Settings'-'Record Setting', can open record setting interface, as follows:



### Function Details:

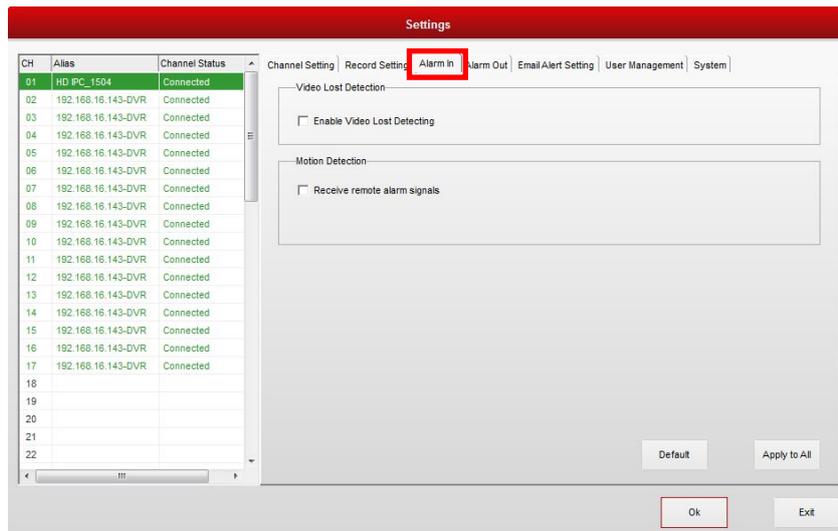
Function	Functional Description	Remarks
<b>File Storage</b>	Choose any 'disk', then it will be local record storage disk, otherwise, can't store.	The disk space must be > 5G, then can be storage disk
<b>Reserved Disk Space</b>	Choose this option, when disk space not enough ,will have enough time to solve, it avoid system 'insufficient disk space' prompt, the most important is it supplies the software cushion space, in order to replace the disk	Reserve disk space range: 2G~8G
<b>Overwrite Previous Records</b>	Choose this option, while disk space not enough, system will overwrite the earliest record , so can continue to record.	
<b>Stop Recoding and Remind User</b>	Choose this option, while disk space not enough, system will stop recording and give prompt to remind user	
<b>Enable Scheduled Recording</b>	Choose this option, system will start to record according to the pre-set time.	

## 2.2.3 Alarm In

**Functional Specifications:** it is used for setting alarm trigger of selected channels.

### Operating Steps:

1. The mouse single click shortcut menu 'Settings', or the mouse single click system main interface, in pop-up context menu, choose 'Settings', open 'Settings' interface.
2. The mouse single click 'Settings'- 'Alarm In', open Alarm In interface, as follows:



### Function Details:

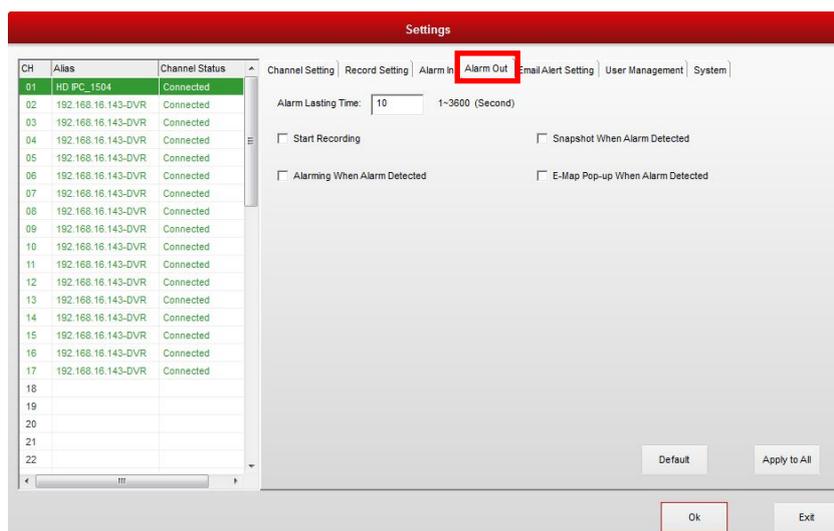
Function	Functional Description
<b>Enable Video Lost Detecting</b>	Choose the option, while monitoring picture losing, system alarm triggered, and sending alarm information according to the pre-set alarm output mode.
<b>Receive Remote Alarm Signals</b>	Choose the option, while remote client-end set motion detection and alarm triggered, can receive remote alarm signals.

## 2.2.4 Alarm Out

**Functional Specifications:** it is used for setting alarm processing and alarm lasting time of selected channels.

### Operating Steps:

1. The mouse single click shortcut menu 'Settings', or the mouse single click system main interface, in pop-up context menu, choose 'Settings', open 'Settings' interface.
2. The mouse single click 'Settings'- 'Alarm Out', open Alarm In interface, as follows:



**Function details:**

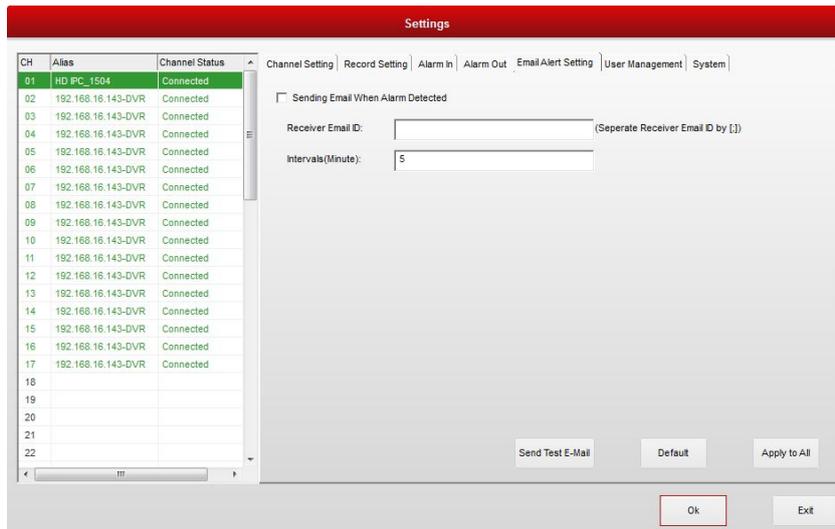
Function	Functional Description
<b>Alarm Lasting Time</b>	Set the function, while system alarm triggered, alarm lasting time will be the same as pre-set time, system default time is 10s.
<b>Start Recording</b>	Choose the option, while system alarm triggered, sending alarm prompt, meanwhile start recording.
<b>Snapshot When Alarm Detected</b>	Choose the option, while system alarm triggered, sending alarm prompt, meanwhile making snapshot and make local storage according to the pre-set storage mode.
<b>Alarming When Alarm Detected</b>	Choose the option, while system alarm triggered, sending alarm prompt, meanwhile giving voice prompt.
<b>E-map Pop-up When Alarm Detected</b>	Choose the option, while system alarm triggered, sending alarm prompt, meanwhile pre-set E-map pop-up.

## 2.2.5 Email Alert Setting

**Functional Specifications:** it is used for setting email alert receiver id, Intervals, and email sending notice (while alarming).

**Operating Steps:**

1. The mouse single click shortcut menu 'Settings', or the mouse single click system main interface, in pop-up context menu, choose 'Settings', open 'Settings' interface;
2. The mouse single click 'Settings'- 'Alarm Out', open Alarm In interface, as follows:



## Function Details

Function	Functional Description
<b>Sending Email When Alarm Detected</b>	Choose the option, while system alarm triggered, system give alarm prompt, meanwhile receiver email ID will get alarm email.
<b>Receiver Email ID</b>	Here enter receiver email id, if more than 1 receiver email id, please separated with semicolon
<b>Intervals</b>	It is used for setting email sending intervals, that is after how long time (the set minutes) receivers get the alarming email.
<b>Send Test-Email</b>	After Setting Receiver email ID and Intervals, single click this button, receiver email ID will get a testing email to ensure the setting correct.

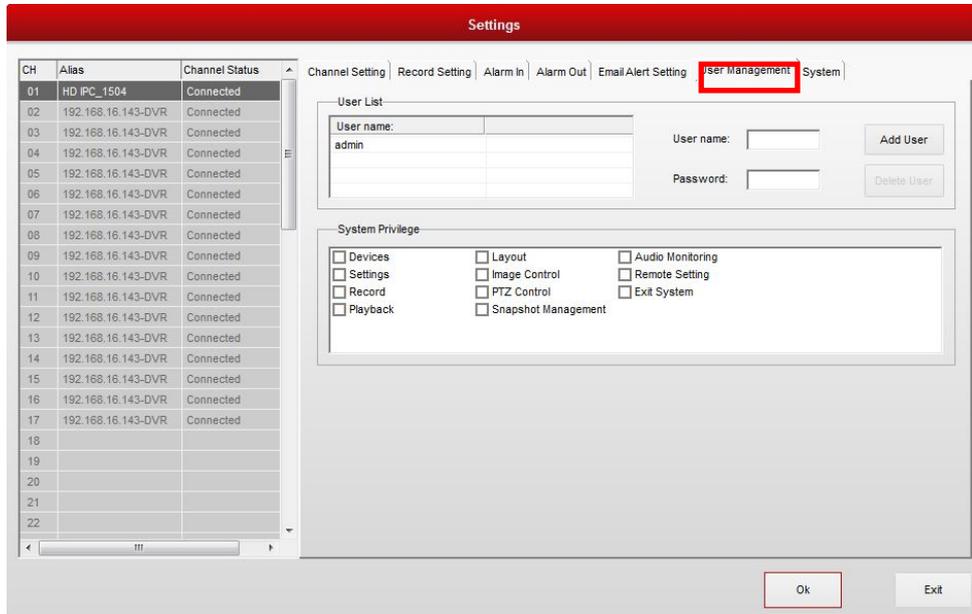
Remarks: Operation for setting alarming email send id is: In the bottom right corner, the mouse single click 'envelop' icon , open the interface which can set addresser email, as follows:

## 2.2.6 User Management

**Function:** Add, delete, and modify local user name or network user name and their authority

**Steps:**

1. Click “system parameter”, or right click main interface and choose “setting”
2. Click “user management”



**Function list:**

Function Name	Description
<b>User list</b>	Display all user names that had added
<b>User name</b>	Input the user name that need added
<b>Password</b>	Input password accordingly
<b>Add user</b>	After inputting user name and password, you can click “add user”, and then can add the user name to left user list
<b>Delete</b>	Choose user name in user list, then click “delete”, the user name will be deleted and disappear from user list

**System privilege (Choose check box before each function)**

Privilege name	Description
<b>Devices</b>	After having this privilege, user can maintain all IP camera, such as adding/modifying/deleting device
<b>setting</b>	After having this privilege, user can set system parameters, such as channel setting, record setting, alarm in/out setting, system setting etc.
<b>Record</b>	After having this privilege, user can start/stop record, do manual record, schedule record, alarm record.

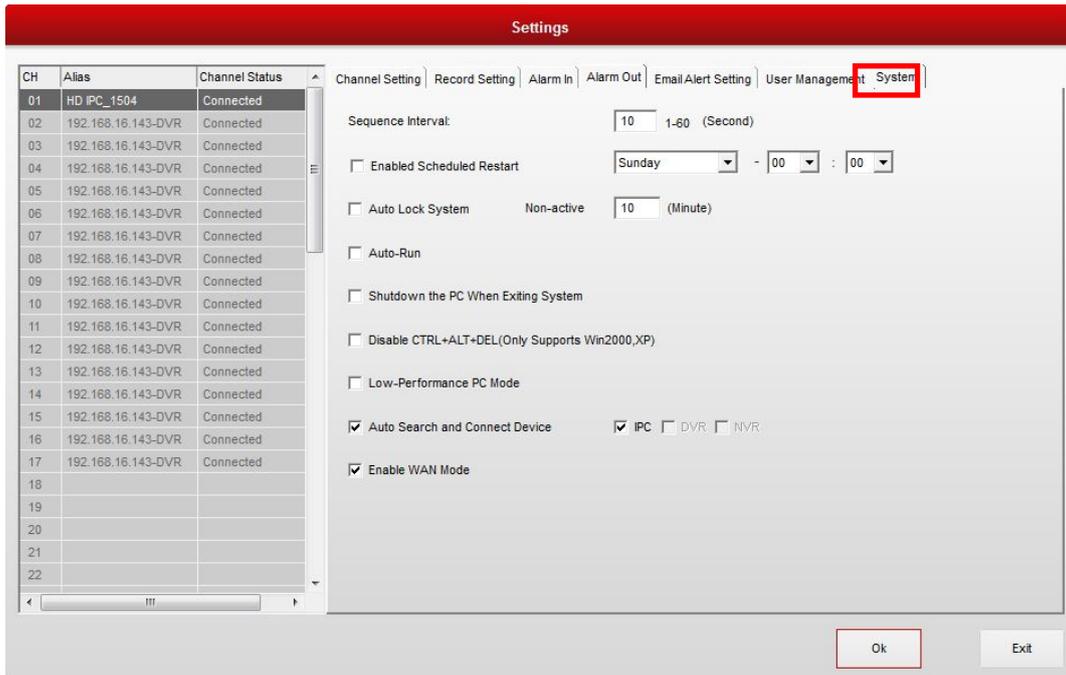
<b>Playback</b>	After having this privilege, user can control video that need playback, such as single frame forward/back, quickly forwarder, slowly forward, quickly back etc.
<b>Layout</b>	After having this privilege, user can Set image layout.
<b>Image control</b>	After having this privilege, user can adjust image brightness, contrast, saturation, colorimeter, crispness
<b>PTZ control</b>	After having this privilege, user can Set PTZ, such as adjust PTZ angle, preset position setting, cruise setting etc.
<b>Snapshot management</b>	After having this privilege, user can manage all snapshot
<b>Audio monitoring</b>	After having this privilege, user can hear voice of each channel
<b>Remote setting</b>	After having this privilege, user can Set IP camera by remote control
<b>Exist system</b>	After having this privilege, user can exist system and close procedure

## 2.2.7 System environment

**Function:** Enabled scheduled restart, auto lock system, auto run, enable WAN mode etc.

Steps:

1. Click "system parameter", or right click main interface and choose "setting"
2. Click "system"



**Function list:**

Function	Description
<b>Sequence interval</b>	Set sequence interval
<b>Enabled schedule restart</b>	Choose it, the system will do schedule start, and choose “auto run” automatically
<b>Auto lock system</b>	Choose it, “Non-active”will lock system. User need input write user name and password to unlock
<b>Auto-run</b>	Choose it, when user open computer, JNVR will run automatically
<b>Shutdown the PC when existing system</b>	Choose it, when user exist JNVR, the PC will shutdown
<b>Disable CTRL+ALT+DEL</b>	Choose it, it will prevent illegal intruder modify monitoring system by operation system special features. If not choose this function, illegal intruder will use this button to switch monitoring system and do illegal remote control.
<b>Low performance PC mode</b>	Choose it, it will resolve image stuck problem due to low performance PC under video channels quantity less than 16
<b>Auto search and connect device</b>	Choose it, system will search and connect all IP camera in local network when the device list is blank. But for device has been added into device list, user need delete it and choose “refresh”, this function can be available.
<b>Enable WAN mode</b>	Choose it, user can add device by “manually”, if not, this function is not

## 2.3 Remote configuration

IPC as a standalone embedded device, user can do remote configuration by SUNYWO remote Client software. In addition, remote configuration is only available for

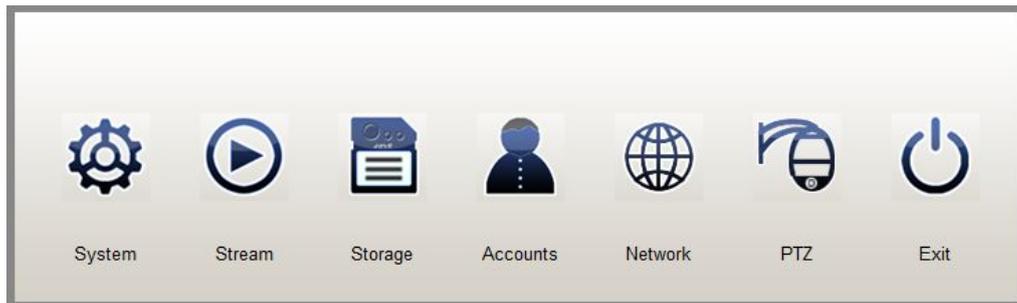
Single IPC, and “system parameter”/“setting” are for all IP cameras

**Function:** Do remote configuration on IP camera, such as system, stream, storage, accounts, network, PTZ etc.

### Steps:

Right click main interface and choose “remote configuration”.

There are 7 functions in this interface.



### 2.3.1 System management

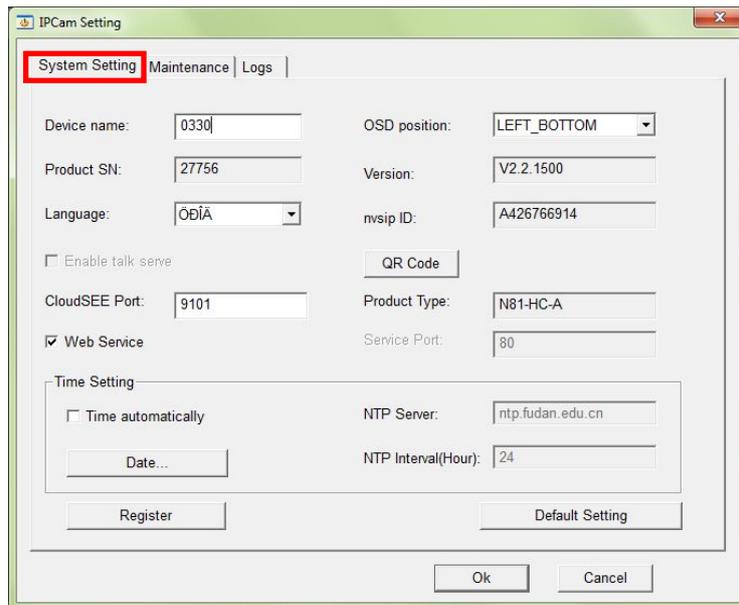
“System” is for remote configuration on IP camera, such as device name, OSD position, language, Time setting, Restart, Default setting, logs, network updating, local updating

Note: Suggest customer to use network updating when IP camera working in WLAN.

#### 2.3.1.1 IP camera setting

**Function:** It was used for remote configuration on IP camera name, OSD position, language, Time automatically etc.

**Steps:** Single click “remote configuration” → “system” → “IPCam setting” → “System setting”



**Function list:**

Name	Description	Note
<b>Device name</b>	Modify or rename device name	
<b>OSD position</b>	Modify OSD position, it can support left-top, left-bottom, right-top, right-bottom, hide	
<b>Products SN</b>	Show product serial number for IP camera	
<b>Version</b>	Show JNVR version	
<b>Language</b>	Change JNVR language	
<b>Nvsip ID</b>	Show Nvsip ID for IP camera	
<b>Enable talk server</b>	It can realize talking between local and remote end.	Only for IPC support audio
<b>QR code</b>	It can open QR code of mobile client-end and device ID	Just scan QR code, user can get mobile client software and Device ID
<b>Nvsip port</b>	Show and change device port	Do not suggest to modify
<b>WebCC service</b>	Choose it, remote client can connect local client end by WebCC system	
<b>Service port</b>	Show WebCC sever port	
<b>Time automatically</b>	Choose it, it can keep time in IPC client-end same with that in time server	
<b>NTP server</b>	Show NTP server address	
<b>NTP interval</b>	Set how long to make NTP	

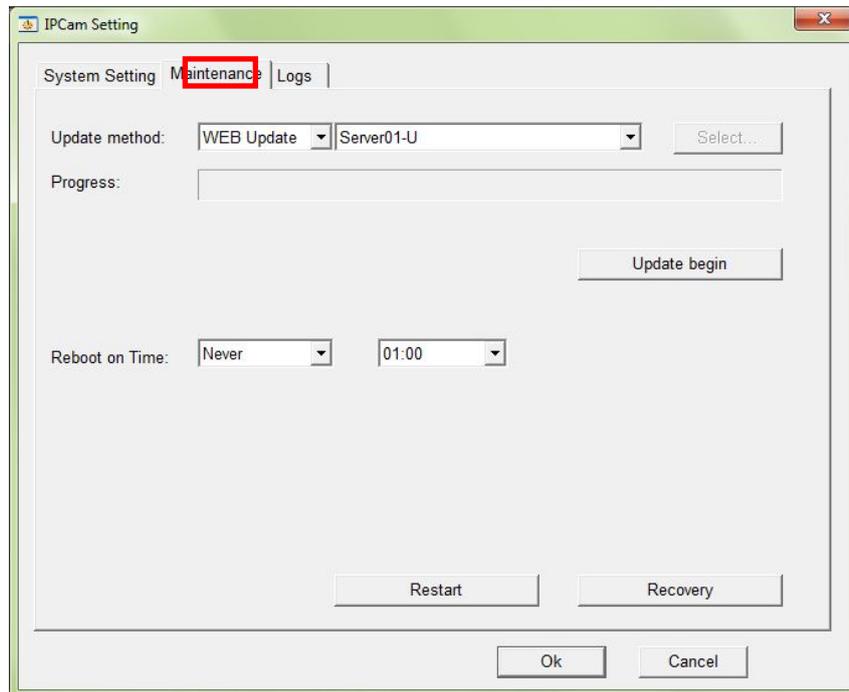
Date..

Cancel "Time automatically" and choose "Date", user can set time by manual, that need restart IPC

### 2.3.1.2 System Maintenance

**Function:** Update IPC by web update, file update, FTP update

**Steps:** Single click "remote configuration" → "system" → "IPCam setting" → "Maintenance"



**Function list:**

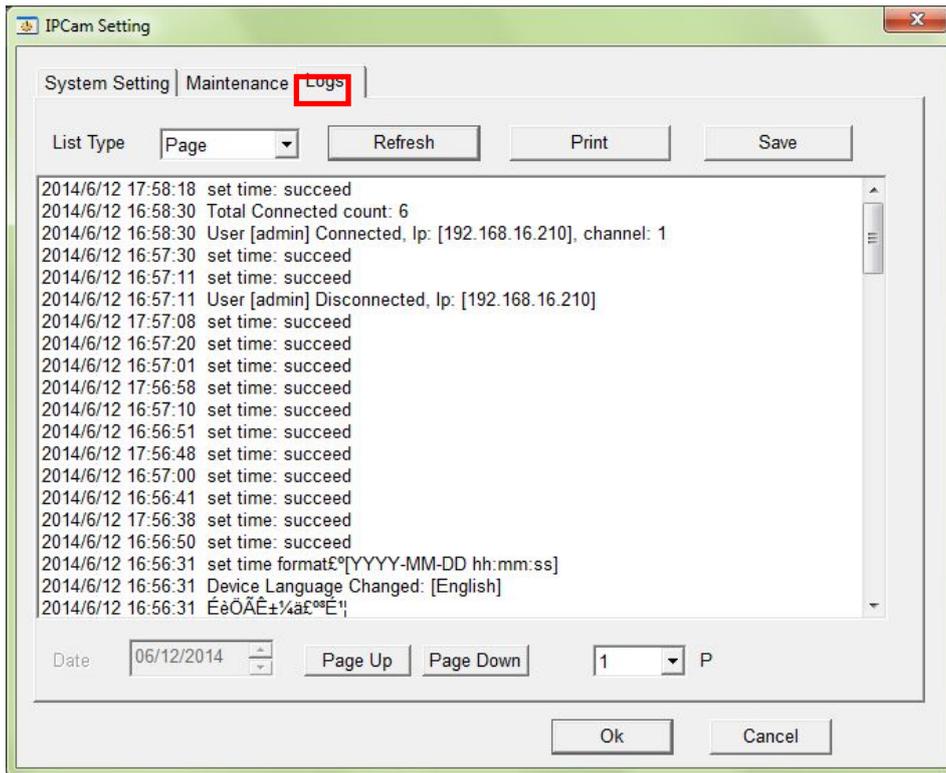
Function	Description	Note
<b>WEB update</b>	It can update IPC by our official website, telecom & Unicom are available	Suggest update in environment with internet
<b>File Update</b>	It can update IPC by file in PC	Suggest update in local network
<b>FTP Update</b>	It can update IPC by common resource	
<b>Select</b>	Click it, find update file in PC	Available for update with file
<b>Update begin</b>	Click it, start update	
<b>Process</b>	Show updating process	

<b>Restart</b>	Click it, restart IPC
<b>Recovery</b>	Click it, all parameters of IPC will be factory default ones

### 2.3.1.3 Logs

**Function:** Check logs in IPC, and print or save log in one day

**Steps:** Single click “remote configuration” → “system” → “IPCam setting” → “Logs”



**Function list:**

Function name	Description
<b>List type</b>	Check, print, save logs by date
<b>Refresh</b>	Refresh to latest logs
<b>Print</b>	Print logs
<b>Save</b>	Save logs

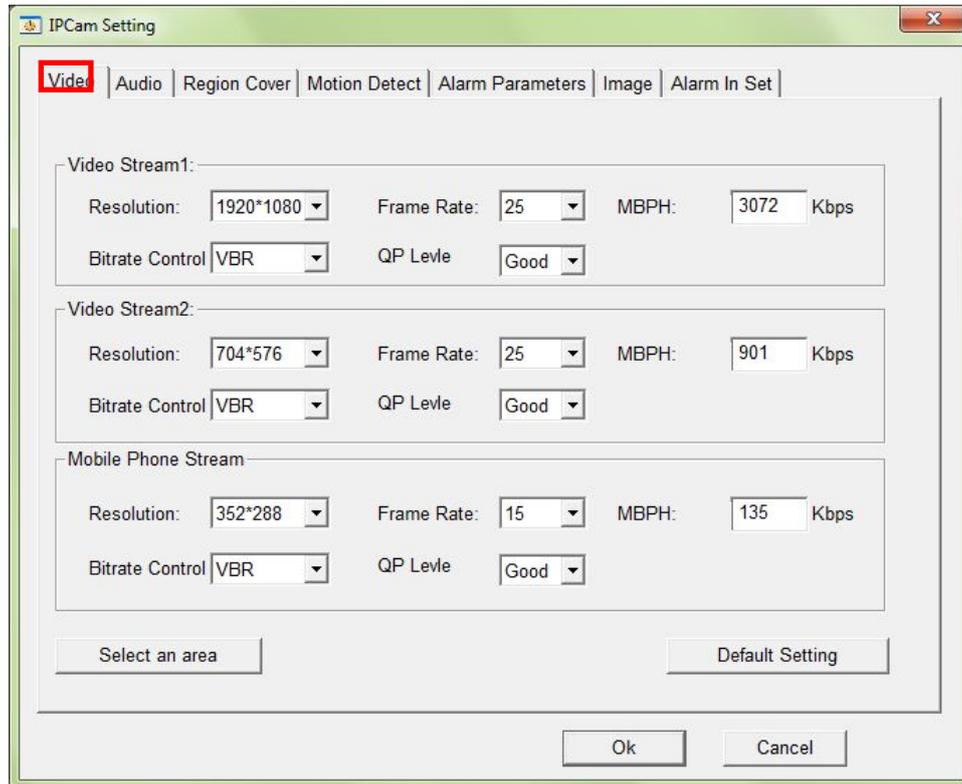
### 2.3.2 Steam

IPC has three stream-- HD stream is for local record and show at single or several channels; standard stream is for view at multi-layout; network stream is for mobile view to sure fluency effective.

### 2.3.2.1 Video

**Function:** IPC video setting

**Steps,** Single click “remote configuration” →”stream” →“IPCam setting” → “Video”



**Function:**

Function name	Description	Note
<b>Resolution</b>	It is image effective resolution	Resolution is difference on different IPC
<b>Frame rate</b>	It is image quantity in each second. The number is more higher, and the image resolution is more higher	
<b>MBPH</b>	It is image stream code.	The MBPH is more higher, the file is much near to former file, but file size is inversely proportional to MBPH
<b>Bit rate control</b>	Can choose CBR,VBR	

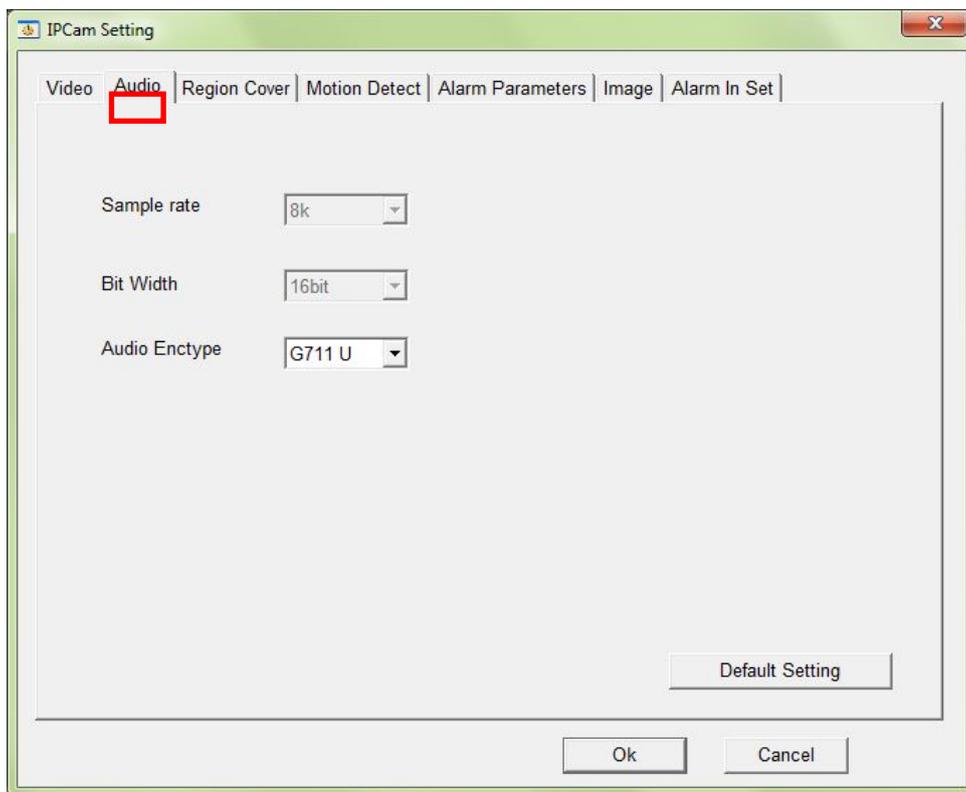
<b>QP level</b>	A technical indication for image code quality	Better image quality, more QP level number
<b>Select an area</b>	Set the area that user interested of	

### 2.3.2.2 Audio

**Function:** IPC audio encypte setting

**Steps:**

Single click “remote configuration” → “stream” → “IPCam setting” → “Audio”

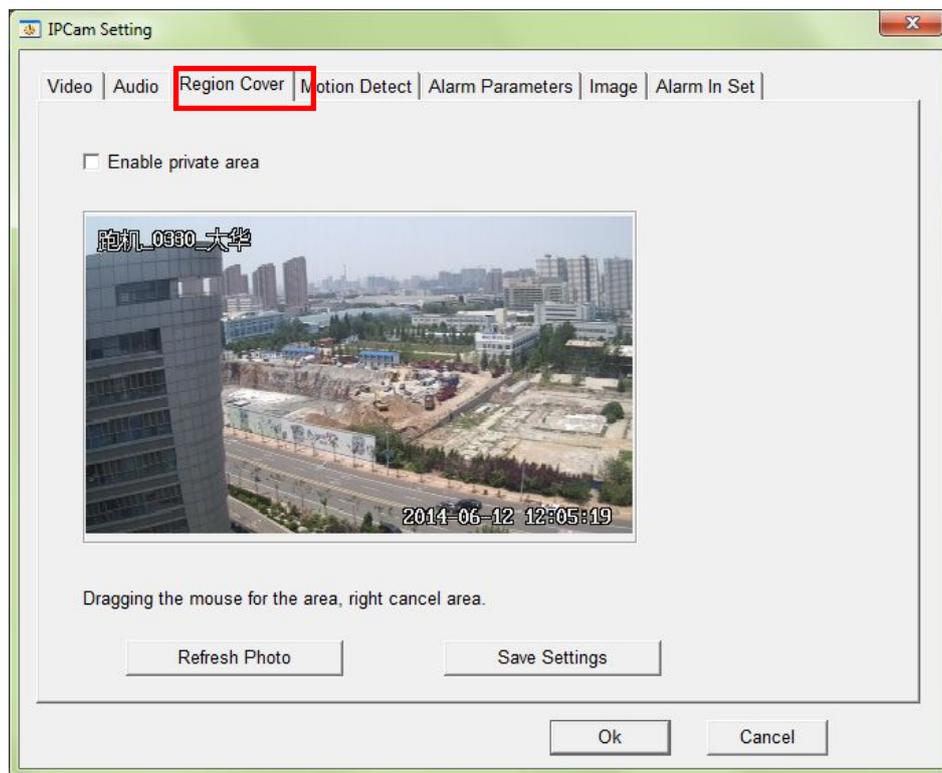


Note: It can change audio encypte. At present, it can support 5 types, PCM, G711A, G711U, G726 40K and ADPCM. The encypte here should be same with that of storage device, and the usages is also for storage device of IPC

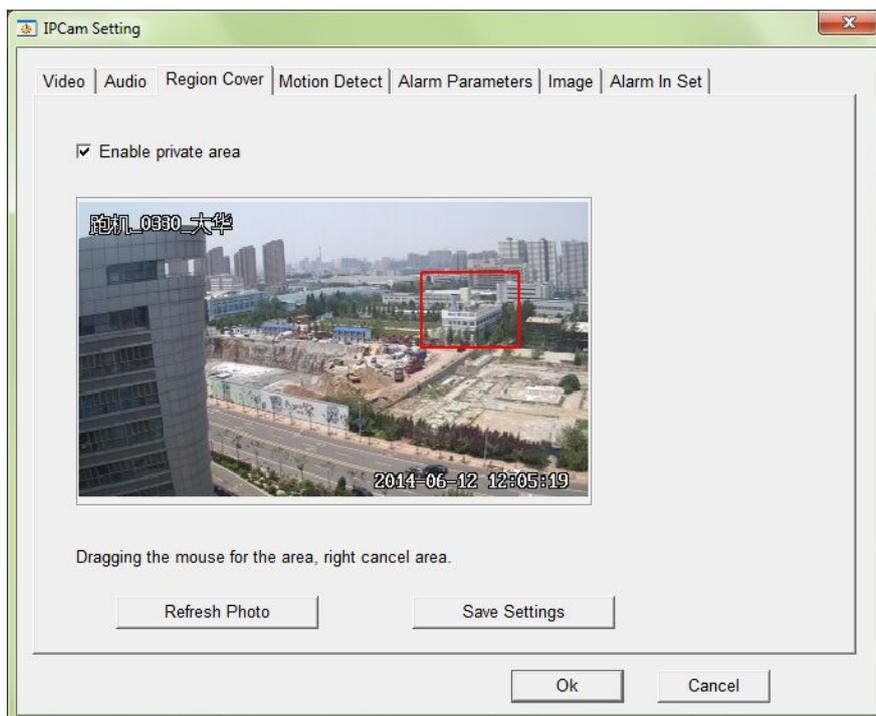
### 2.3.2.3 Region cover

**Function:** It was used for hide one area when user preview or playback video, and the user can do setting for each area.

**Steps:** Single click “remote configuration” → “stream” → “IPCam setting” → “Region cover”



1. Click “enable private area”, drag the mouse ,you are can see a red rectangle to choose area of region cover



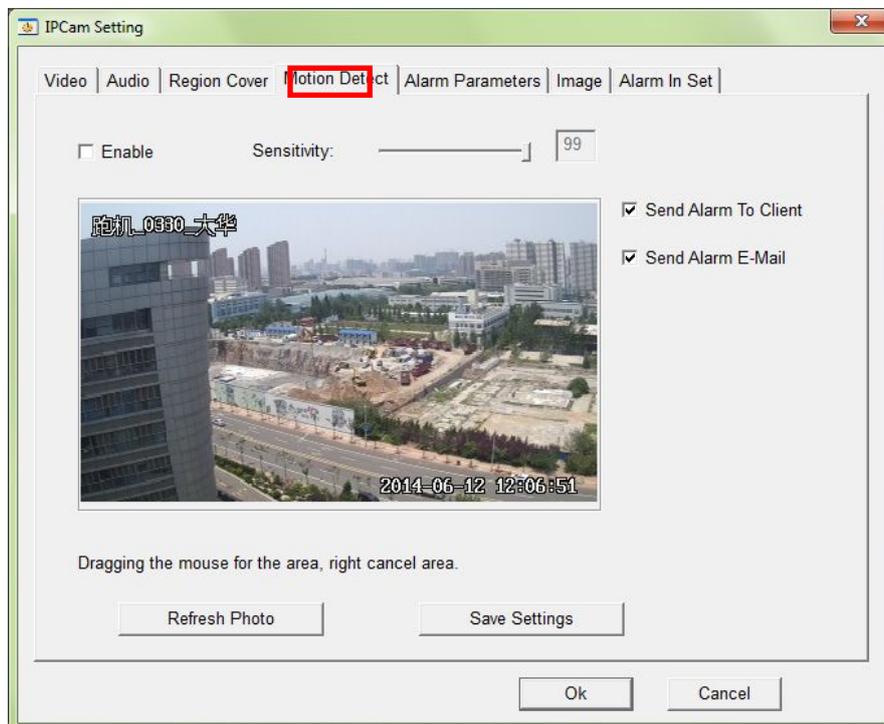
2. Click "OK", then back to main interface, you will see area of region cover



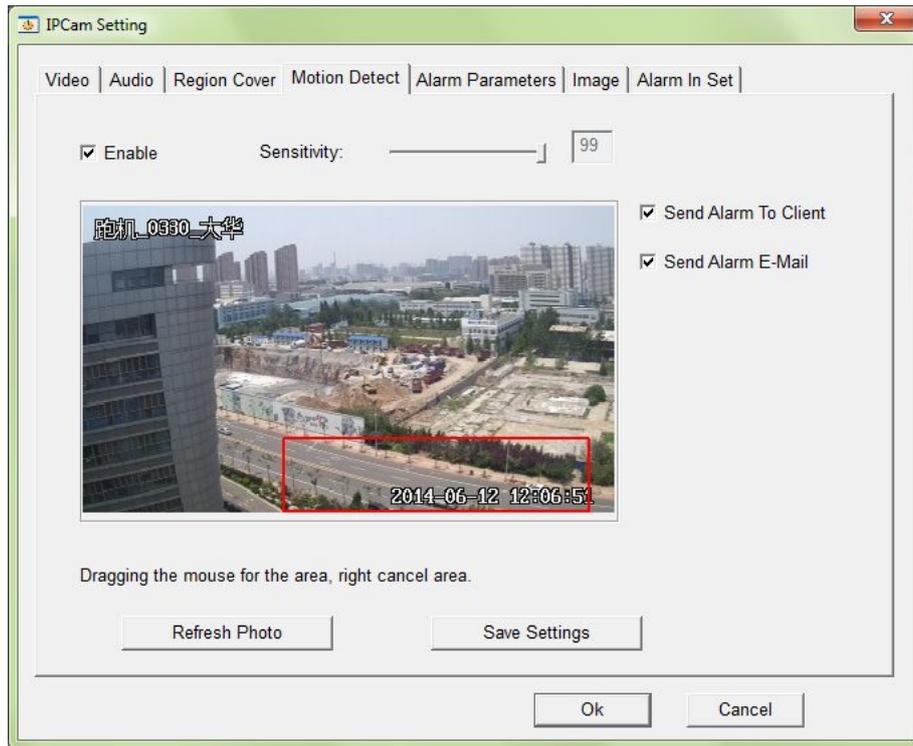
### 2.3.2.4 Motion Detection

Function: Set area of motion detection, sensitivity, sent alarm to client, sent alarm email, JNVR will have alarm messages accordingly.

Steps, Single click "remote configuration" → "stream" → "IPCam setting" → "Motion detection"



Choose “enable”, it can open motion detection function. User can drag mouse to make a red rectangle, that is area of motion detection



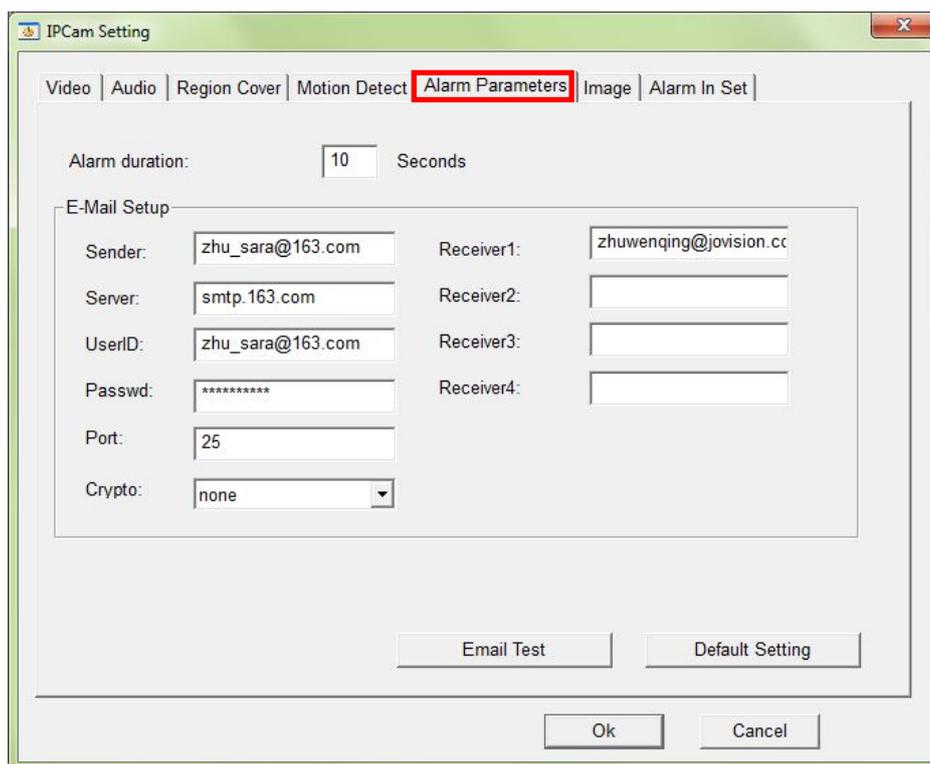
**Function list:**

Function name	Description
<b>Enable</b>	Choose it, it can open motion detection function
<b>Sensitivity</b>	Drag mouse to adjust sensitivity, the number is higher, the sensitivity is higher
<b>Sent alarm to Client</b>	Choose it, system will send alarm information to remote client-end
<b>Send alarm email</b>	Choose it, system will send email if there is motion detection alarm
<b>Refresh photo</b>	Get latest real time image
<b>Save setting</b>	Save setting for motion detection

**2.3.2.5 Alarm parameters**

**Function:** Set alarm parameters

**Steps:** Single click “remote configuration” → “stream” → “IPCam setting” → “alarm parameters”



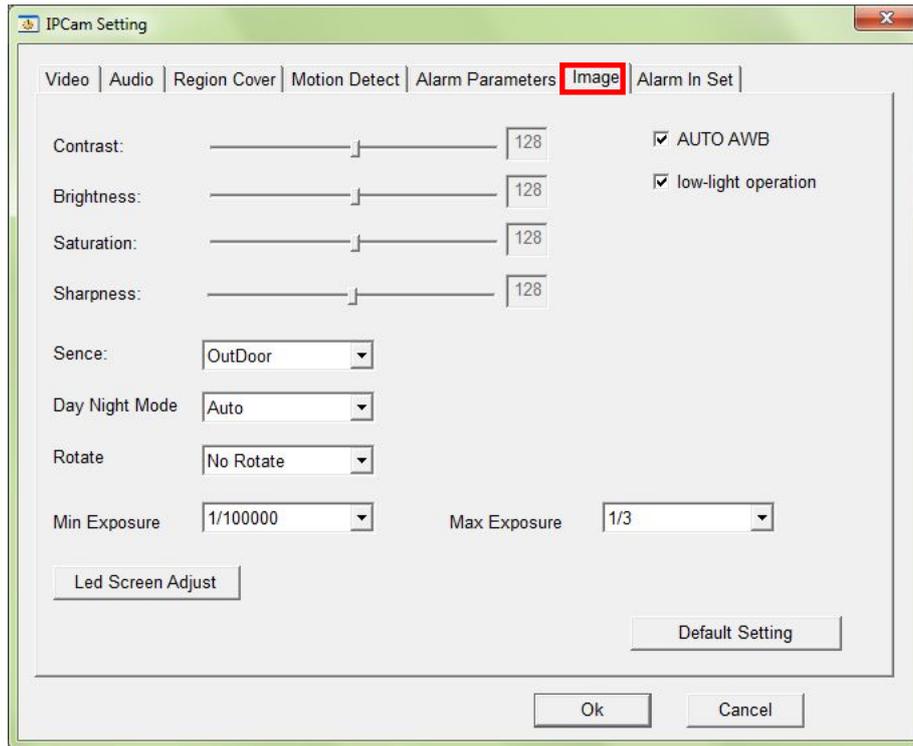
**Function list:**

Function name	Description
<b>Alarm duration</b>	The time from alarm beginning to alarm finishing
<b>Sender</b>	Set sender email
<b>Server</b>	Set sever types
<b>User ID</b>	Set sender name
<b>Password</b>	Set sender password
<b>Port</b>	Set sever port
<b>Crypto</b>	Set email crypto type, support SSL and TLS
<b>Receiver address</b>	Set receiver email and max 4 emails
<b>Email test</b>	For testing email correctly or not

**2.3.2.6 Image Adjustment**

**Function:** Set image contrast, brightness, sharpness and other parameters. Users can adjust IPC in real site.

**Steps,** click “remote configuration” → “stream” → “IPCam setting” → “Image”



**Function list:**

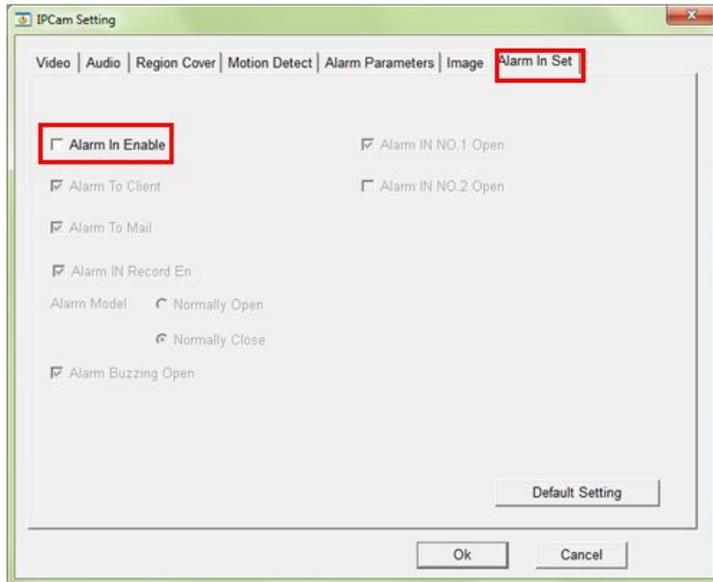
Function name	Description
<b>Contrast</b>	Adjust image contrast, the image will be brighter, if contrast is bigger.
<b>Brightness</b>	Adjust image brightness
<b>Saturation</b>	Adjust image saturation, the image will be more colorful if saturation is bigger
<b>Sharpness</b>	Adjust image sharpness
<b>Scene</b>	Choose IPC working environment, indoor, outdoor, default ,soft mode
<b>Day night mode</b>	IP camera day/night switch, auto, always color, always black/ white, time order
<b>Rotate</b>	Set IPC rotation, support none, 90°, 180°, 270°.
<b>Min exposure</b>	When the words on the electronic screen display are not whole parts, user can adjust exposure time see the full words on the screen
<b>Auto AWB</b>	Choose it, even there are big color difference in same environment, it can restore former color for objects
<b>Low light operation</b>	Choose it, it can enhance night vision effective

**2.3.2.7 Alarm Input**

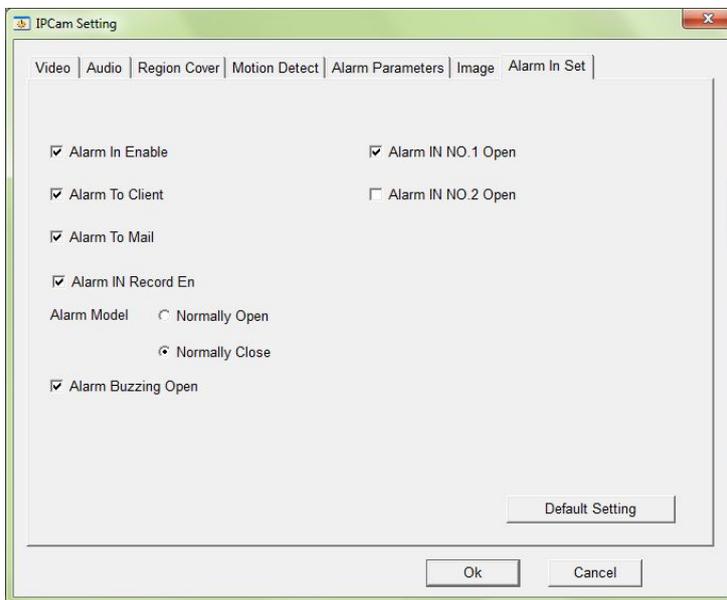
**Function:** To set the input parameters of alarm equipment connected to IP camera.

**Procedure:**

1. Click "Remote Setting"---- "Stream Management", then the interface of "IPCam Setting" is opened;
2. Click the tab "Alarm In set" of the interface of "IPCam Setting", you can open the alarm input interface, as below shown :



3. Click the check-box button of "Alarm In Enable" as up picture shown, then the alarm input function is turned on.



**Detailed Menu**

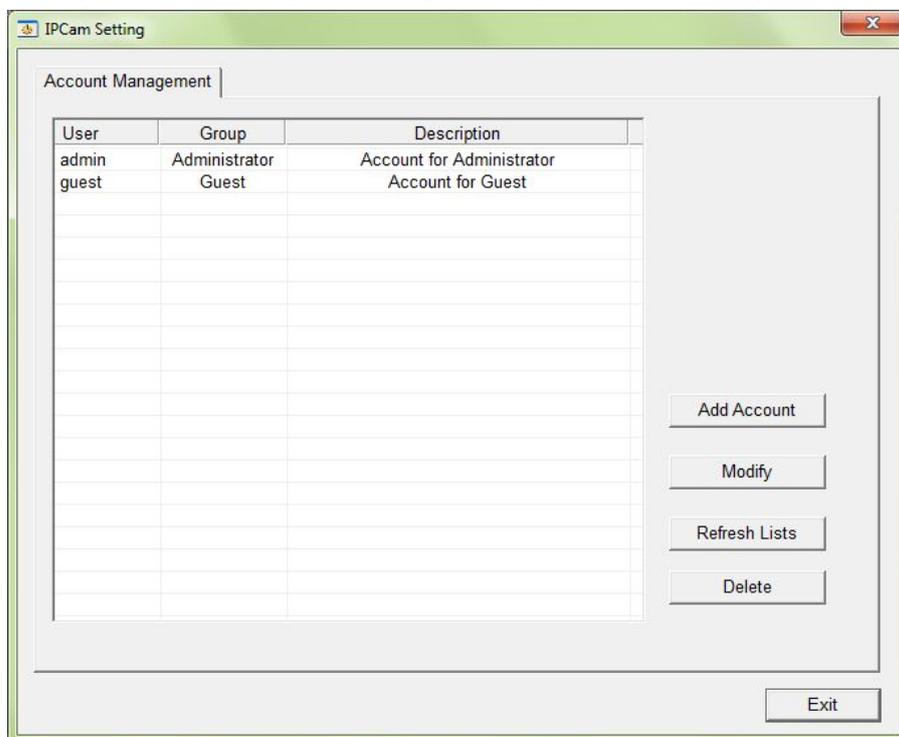
Function Name	Function Description
<b>"Alarm In Enable"</b>	Check it, the alarm input function can be enabled, and other functions can be checked

“Alarm To Client”	Check it, and if an alarm is touched off, the alarm information will be sent to remote clients end connected.
“Alarm To Mail”	Check it, and if an alarm is touched off, the alarm information will be sent to the set recipient email.
“Alarm In Record En”	After selecting this function, the triggered alarm will make system automatically start recording
“Alarm Model”	It is used to set the alarm device connected to the alarm , support “Normally Open ” or “Normally Close”
“Alarm Buzzing Open”	Check it, and if an alarm is triggered, the IP camera buzzing is turned of
“Alarm IN NO.1 Open”	Check it, the system open 1 channel alarm.
“Alarm IN NO.2 Open”	Selected it, the system can open another channel alarm input independently

### 2.3.3 User Management

**Function:** It is used to manage the User name and password of the IP camera connected

**Progress:** Click “Remote Setting”----”User Management”, the interface of “Account Management” in the “IPCam Setting” is opened, as the following show:



#### Detailed Menu

Function Name	Function Description	Remark
---------------	----------------------	--------

<b>“Add Account”</b>	Add account name and password	
<b>“Modify”</b>	Modify the user's password and privileges	
<b>“Refresh Lists”</b>	Used to refresh the list of user management	
<b>“Delete”</b>	Delete the added account name and password	The default "admin" and "guest" can not be deleted

## 2.3.4 Network Management

**Function:** It is used to set the IP camera networking, support three ways: Ethernet, PPPOE and WIFI.

**Steps:** Click “Remote Setting”----”Network Management”, then the “Network Management” is opened, Ethernet interface is defaulted, as the following shown:

### Detailed Menu

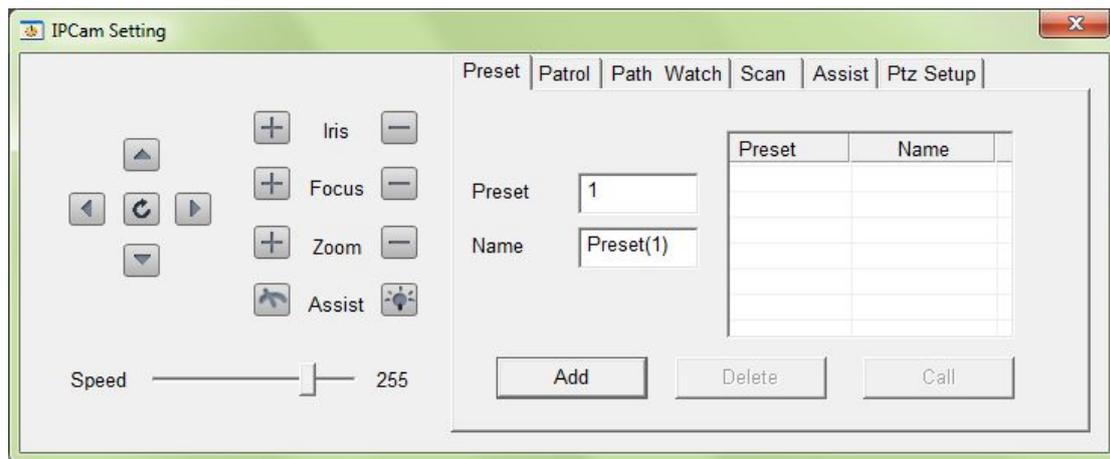
Function Name	Function Description	Remark
<b>“Ethernet”</b>	Click the button, the IP camera connected way is wired connection	
<b>“PPPOE”</b>	Click it, the IP camera connected way is dial-up connections.	Need to set up the account and password.
<b>WIFI</b>	Click the button, then the IP camera connected way change to wireless	Need to select an available wireless

		network, and set up password
<b>Self Adaption IP Addr</b>	After selecting, the device can be obtained automatically IP address, otherwise a fixed IP address can be set manually.	
<b>Network Info</b>	Used to show the IP address, Netmask, Gateway, DNS, MAC, Nvsip ID, and Status	
<b>“GB28181”</b>	Used to setting GB2818 network	Enter right Info

## 2.3.5 PTZ Management

**Function:** It is used to adjust PTZ perspective, PTZ preset point device, cruise lines, scanning track, watch point and scan mode.

**Progress** for setting “preset point”: Click “Remote Setting”----”PTZ management”, then the system will open the interface of “IPCamera Setting”. The default interface is preset interface, as shown:



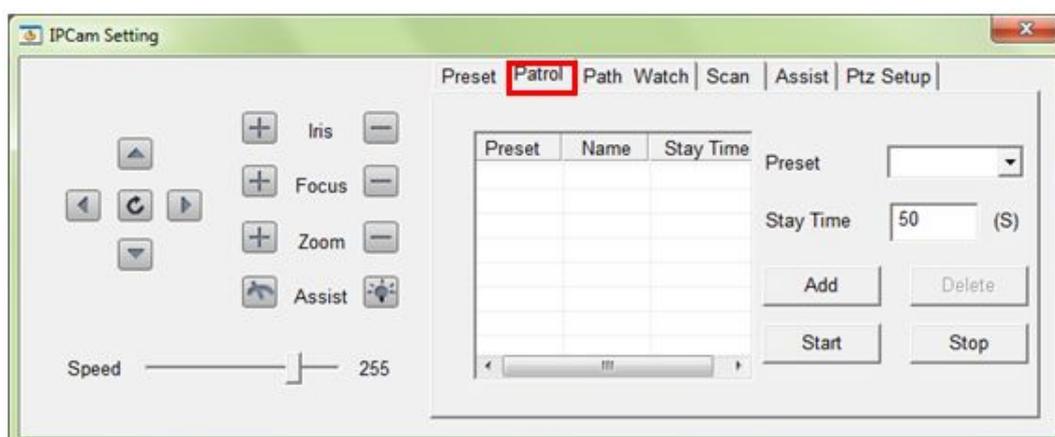
### Detailed Menu

Function Name	Function Description
<b>PTZ perspective</b>	Use the direction buttons to control the PTZ perspective, corresponding  UP,  Right,  Down and  Left; the button in the middle  means PTZ can be 360°cruising
<b>“Iris”</b>	It is used to modify the brightness of the PTZ screen, Click  to brighter the screen., and click  to darker the screen.
<b>“Focus”</b>	It is used to adjust the focus and focal length of PTZ device, thereby the

	clarity can be adjusted.
“Zoom”	Adjusting the optical or digital zoon of the PTZ, in order to zoom in or zoom out. Click  , the camera will be zoom in, or click  , zoom out.
“Wiper”	Click  when rain, the function of wiper will be started, and the image will be without rain, and display clearer.
“Illumination”	When the PTZ is dimly, click  to make the image clearer.
“Speed”	It is used to adjust the rotational speed of the PTZ angle
“Preset”	Setting the position of the monitoring preset point, different local points with different figures. The default preset point from 1, and total 127 preset points can be set.
Name	It is used to remark the preset name. In order to easy to distinguish, users can customize the name. The default name is corresponded preset.
“Add”	Increasing the number of preset points, and the info will be shown in the right list.
“Delete”	It is used to delete the information of the right list.
“Call”	It is used to view the image of preset points in the right list, and the corresponding image can be viewed in the JNVR video surveillance zone.

### Progress for Patrol

- 1.Click “Remote Setting”----”PTZ management”, then the system will open the interface of “IPCamera Setting”.
- 2.Click the tab of “Patrol” in the interface of “IPCamera Setting”, as the below shown:



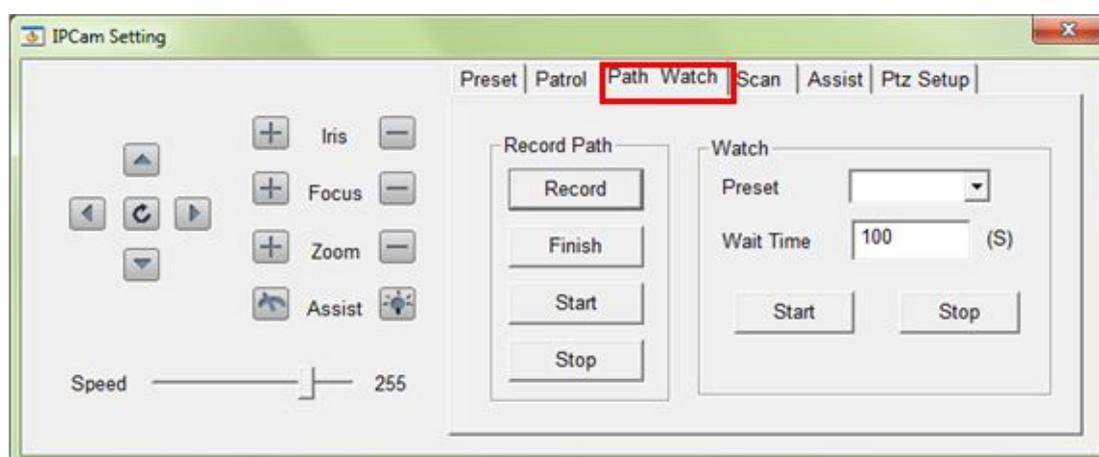
### Detailed Menu

Function Name	Function Description	Remark
Patrol list	All the preset point info will be	

	shown in the list	
<b>Preset</b>	Preset can be chose to set	Click and choose from the drop-down list box
<b>Stay Time</b>	It is used to set the preset staying time	
<b>“Add”</b>	Increasing the number of preset points	1. Click to select the preset and stay time; 2. Click “Add”button, you can add it to the preset cruising list.
<b>“Delete”</b>	Delete the information of preset in the list	
<b>“Start”</b>	It is used to start the patrol function.	
<b>“Stop”</b>	Stop the patrol function	

### Progress of “Path Watch”

1. Click “Remote Setting”----”PTZ management”, then the system will open the interface of “IPCamera Setting”.
2. Click the tab of “Path Watch” in the interface of “IPCamera Setting”, as the below shown:



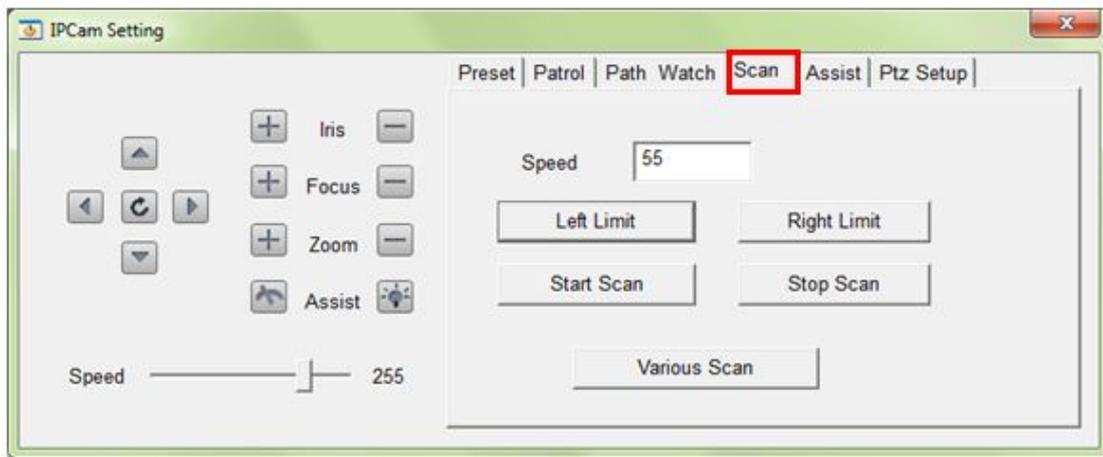
### Detailed Menu

Function Name	Function Description
<b>“Record”</b>	Turn on the recording of path track
<b>“Finish”</b>	Used to turn off the recording of path track
<b>“Start”</b>	Start the recording of path
<b>“Stop”</b>	Stop recording
<b>Preset</b>	Set the preset of path watch
<b>Wait Time</b>	When angle is moved to other preset point, rather than the set point, setting the wait time, and when the device is not transferred back to the

	preset point
<b>“Start”</b>	Start the function of preset patch watch
<b>“Stop”</b>	Stop the function of preset patch watch

### Progress of “Scan”

1. Click “Remote Setting”----”PTZ management”, then the system will open the interface of “IPCamera Setting”.
2. Click the tab of “Scan” in the interface of “IPCamera Setting”, as the below shown:

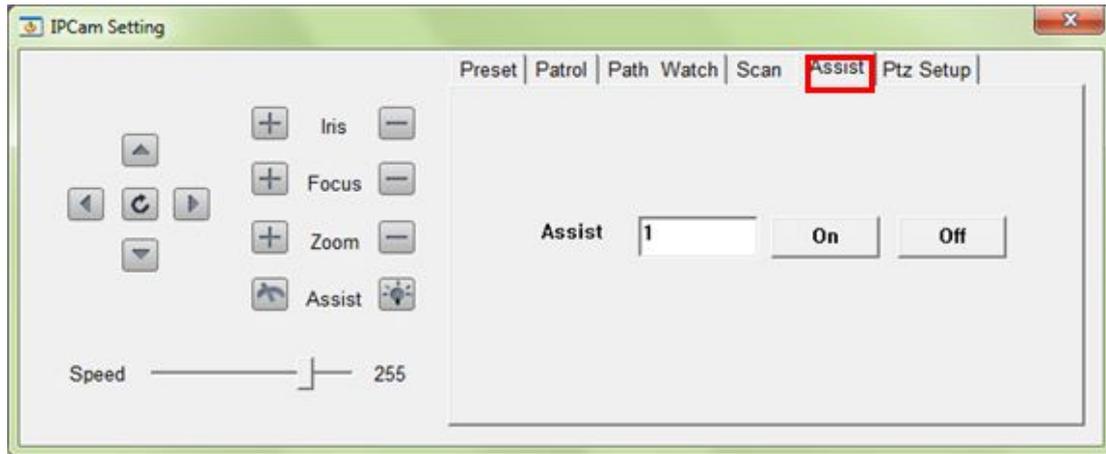


### Detailed Menu

Function Name	Function Description
<b>Speed</b>	Setting the speed of scan
<b>“Left Limit”</b>	Through the adjusting the direction button to determine the boundary of left
<b>“Right Limit”</b>	Through the adjusting the direction button to determine the boundary of right
<b>“Start Scan”</b>	Used to turn on the function of scan
<b>“Stop Scan”</b>	Used to turn of the function of scan
<b>“Various Scan”</b>	Scan as the presetting undulating track

### Progress of “Assist”

- 1 Click “Remote Setting”----”PTZ management”, then the system will open the interface of “IPCamera Setting”.
- 2 Click the tab of “Assist” in the interface of “IPCamera Setting”, as the below shown:



### 2.3.6 Exit

Function: It is used to close the interface of "Remote Settings" .

Steps: Click the "Exit" button of "Remote Settings" panel, the system will turn off the interface.

## 2.4 Video Management

### 2.4.1 Manual recording

**Function:** Through manual operation to video on the channel.

**Steps:** Right-click the required recording channel, and select "start / stop recording" sub-menu on the pop-up menu, then system start / stop video recording on the selected channel. There is not only a message as which channel start / stop manual recording, and the lower right corner of their screen display , as shown below:



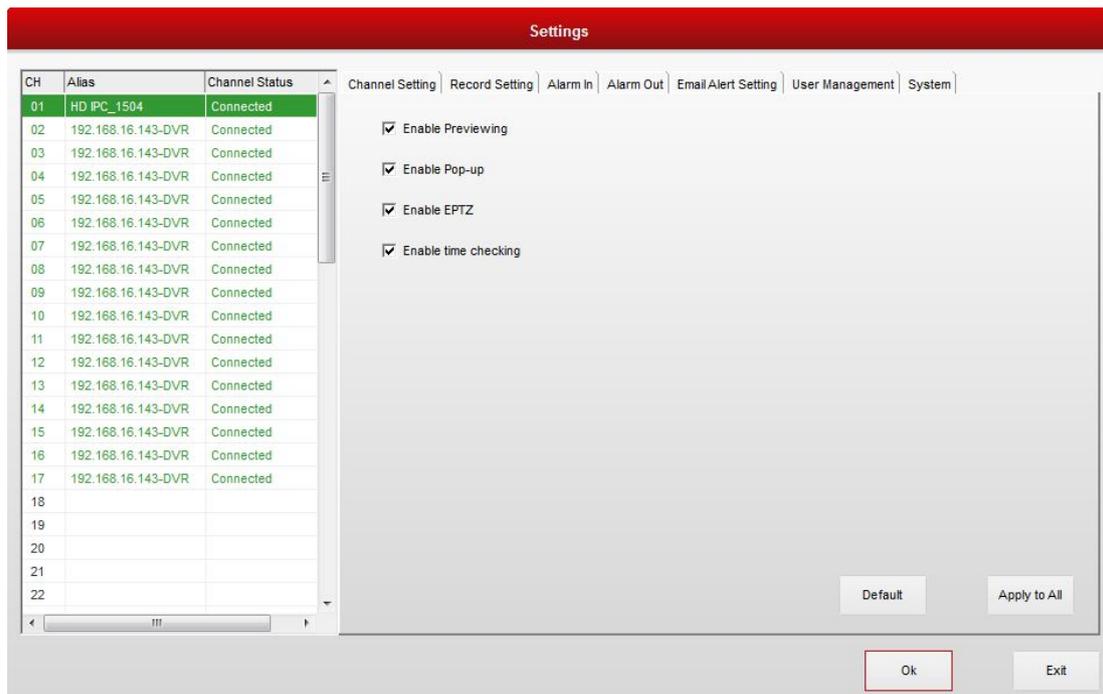
**Note:** In addition to start / stop recording a single channel, but also through the shortcut menu bar of the "Normally open/ normally close" function to achieve one key to start / stop video recording on all channels.

## 2.4.2 Timer recording

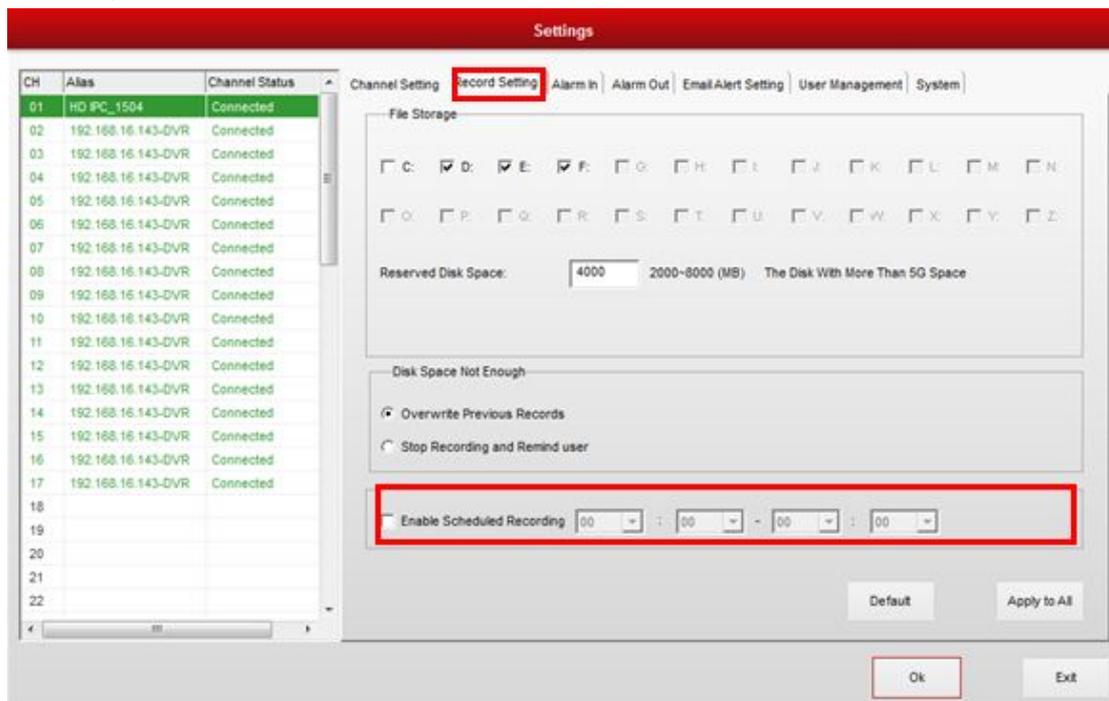
**Description:** Timing recording of the video channel

**Progress:**

1. Click on the shortcut menu "System Parameters" icon, or right-click menu "Parameter Setting" function, you can open the system of parameter interface, which is shown as below:



2. Click the tab of "Recording Setting", then the system opens the "Recording Setting" interface, which is shown below:



3. Click to select the checkbox of "Enable Schedule Recording", and enter the time period required to complete the video timing recording operation.

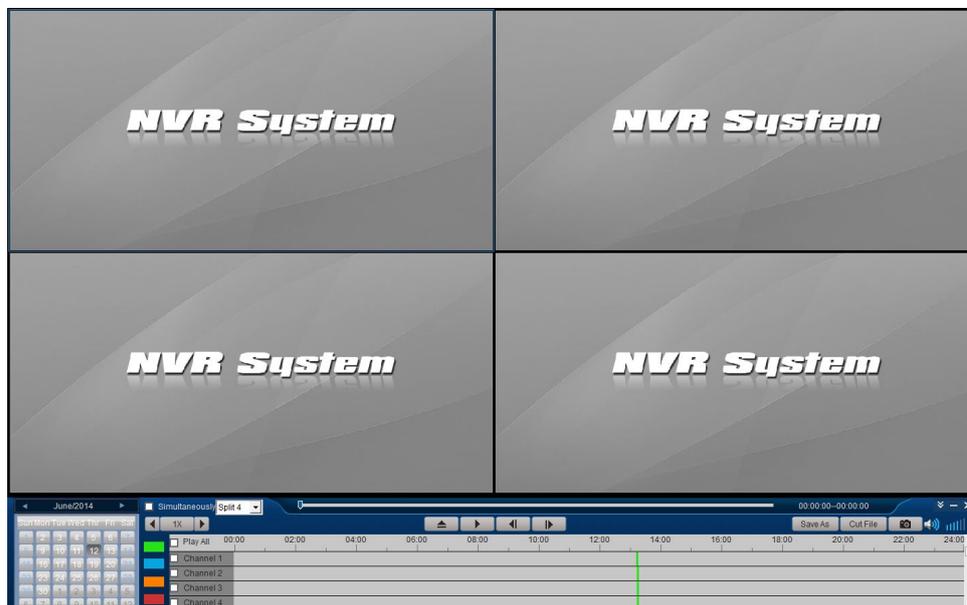
### 2.4.3 Local Playback

Description: The searched information of video is shown by the timeline and vivid colors. Use

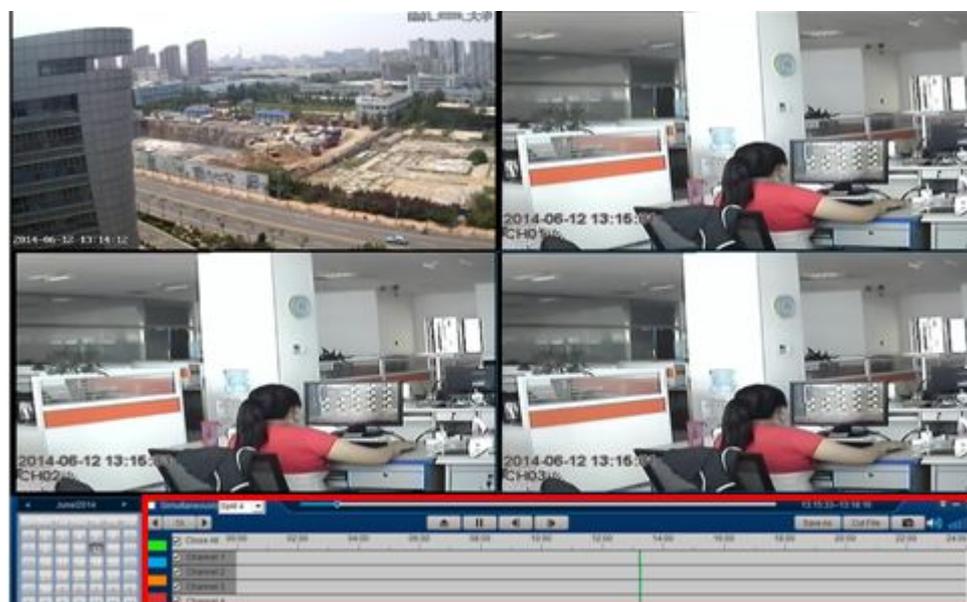
mouse to select the channel number required to playback, and it is started to playback. You can also select the video file by dragging the timeline.

**Progress:**

1. Click on the shortcut menu "Playback" icon, the system opens the video playback interface, which is shown below:



2. Click the required playback channel, and select in front of the channel. Or all channels can also be selected to playback ,which is shown below:



**Note:** If there are many video files, the time point of video can also be played by dragging the timeline.

### 2.4.3.1 Cut the File While Playback

**Function Description:** For cutting a period of video while replaying a video

### Operating Steps:

1. Click **Playback** Icon in the Quick Manual, you will see the Playback interface.
2. Press **Cut File** button, and there will be a **File Cutting** dialog box. Press **Finish** button when you finish cutting the file, and the file will be saved in the PC:



### 2.4.3.2 Playback Control Panel

**Function Description:** For controlling video playback, icons are as follows:



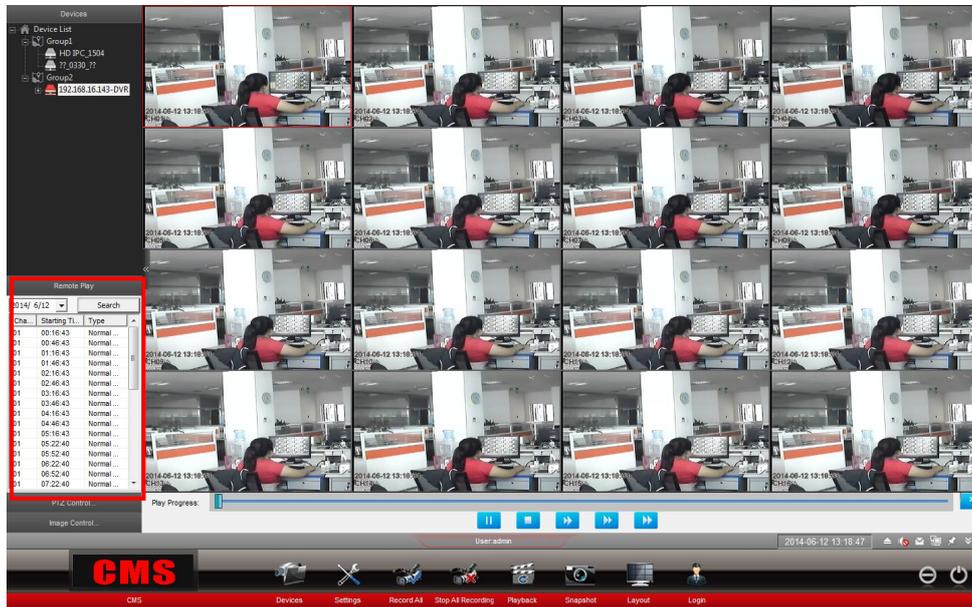
Button	Function	Button	Function
	Select <b>Simultaneously</b> to operate all channels at the same time.		Choose the layout of the screen, support split 4, split 9 and split 16.
	Hide the panel (Full screen )		Video Speed
	Open file folder		Play
	Pause		Backward
	Forward		Copy and save the video
	Cut file		Snapshot
	Turn on audio		Turn off audio

### 2.4.4 Remote Playback

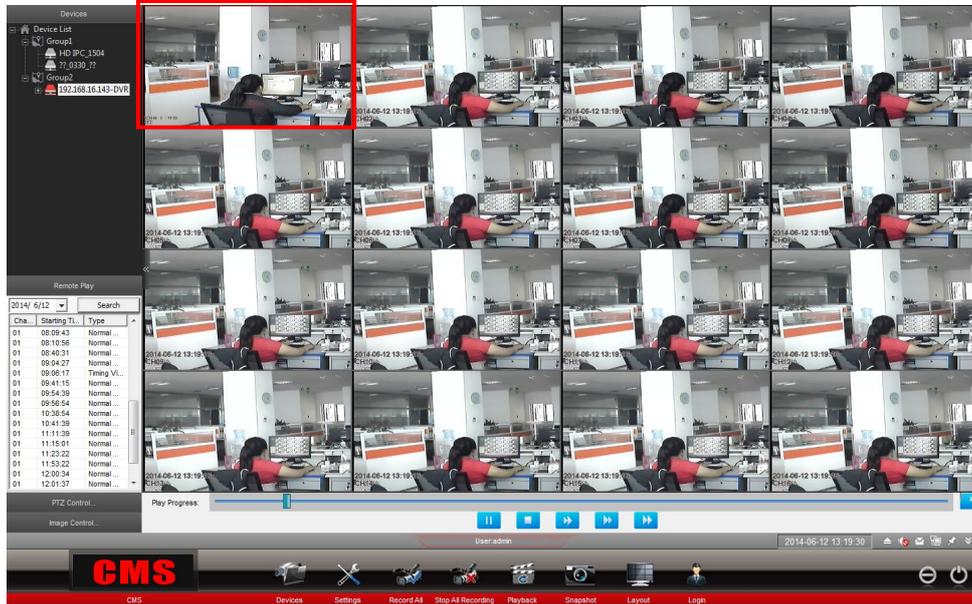
**Function Description :** To playback videos on a remote device which has local storage function.

**Operating Steps :**

1. Press **Remote Play** button in the lower left corner when remote devices be connected. Then the system will show all files which could be replayed, the interface will be as the following:



2. Double click any recorded file in the lower left corner, the software will play the remote video of the channel you choose. The interface will be as the following:



Note: Right click the mouse on the video screen, you can also find **Remote Play** function.

## 2.5 Snapshot Management

CMS software is with a function of snapshot, and you can manage the snapshot files with

the software.

## 2.5.1 Snapshot Function

**Function Description:** To snapshot a screen shot of any connected video signal and save the screen shot.

**Operating Steps:** Right click the monitoring screen, choose **Snapshot** in the context menu, and you can snapshot in the current window. When the snapshot is saved, there will be a prompt message to inform you that the snapshot be saved successfully.



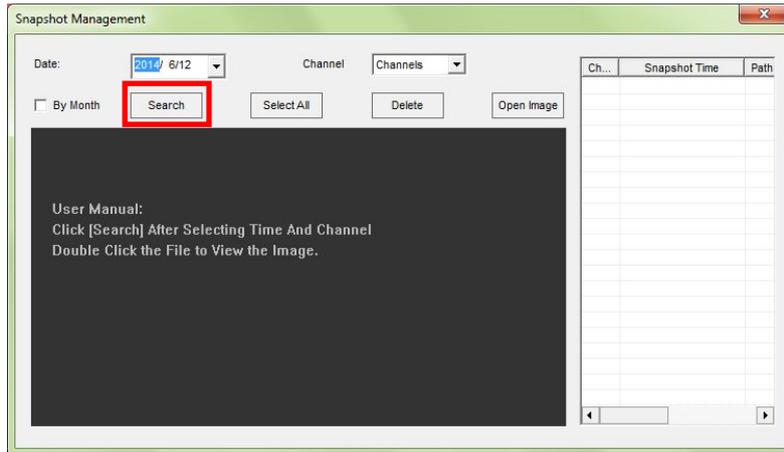
Note: Click Snapshot Icon in the quick functional areas, you can also save the snapshot to your PC

## 2.5.2 Snapshot Management

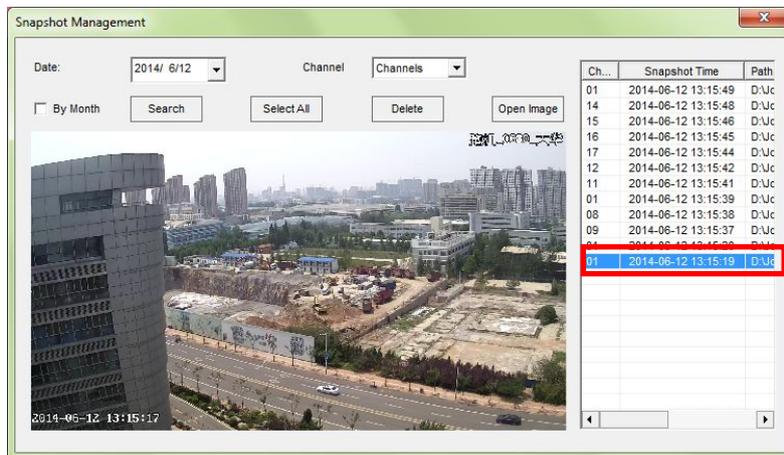
**Function Description:** To search, open or delete snapshots.

**Operating Steps:**

1. Click **More Function** button  in the lower right corner of the interface, choose **Snapshot Viewer**, then the system will show the snapshot management interface as the following:



2. You can search snapshot files by date, channel through the **Search** button. And the required image files will be showed on the right side. Double click the image to view it on the left. The interface would be as the following:

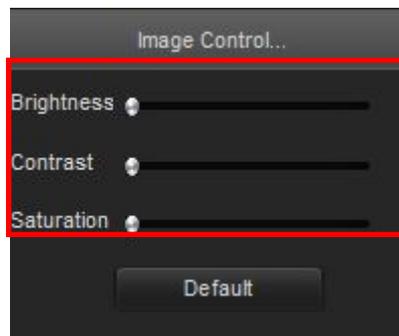


## 2.6 Other functions

### 2.6.1 Image Control

**Function Description:** This function is to adjust the brightness, contrast and saturation of the image.

**Operating Steps:** Click the **Image Control** button in the lower left corner of the interface, the interface will show as the following, you can adjust image brightness, contrast and saturation of the selected channel.



## 2.6.2 PTZ Control

**Function Description:** To control PTZ device's Iris, Focus, Zoom and Assist functions.

**Operating Steps:** Right click **PTC Control** button in the lower left corner of the interface to expand the PTZ panel, with which you can control PTZ device's Iris, Focus, Zoom and Assist functions.

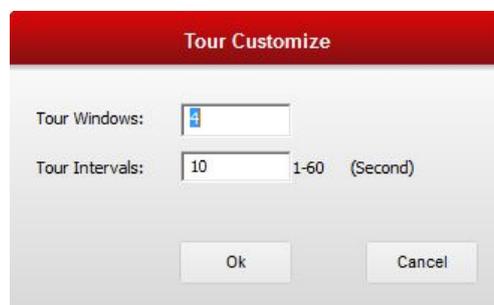
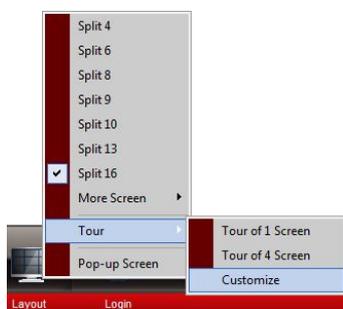


## 2.6.3 Tour of Screen

**Function Description:** To set the tour of screens

**Operating Steps:**

1. Click **Layout** button in Quick Manuel, select **Tour** to choose the Tour Screen ( 1 Screen or 4 Screens ), you can also Customize Tour screen as the following:



2. Press **OK** to confirm the above setting.

**Note:** When you choose Tour of 1 screen or Tour of 4 screens, the default Tour Interval is 10

seconds.

## 2.6.4 Set Pop-up Screen

**Function Description:** To make all video windows float on your PC separately.

**Operating Steps:** Click **Layout** in the Quick Manuel, click **Pop-up Screen**, and the main interface will be minimized into the taskbar, while all videos will float on PC windows. Above all channels the first 4 channels will show in front of other channels in a overlapped form. The interface will be as the following.

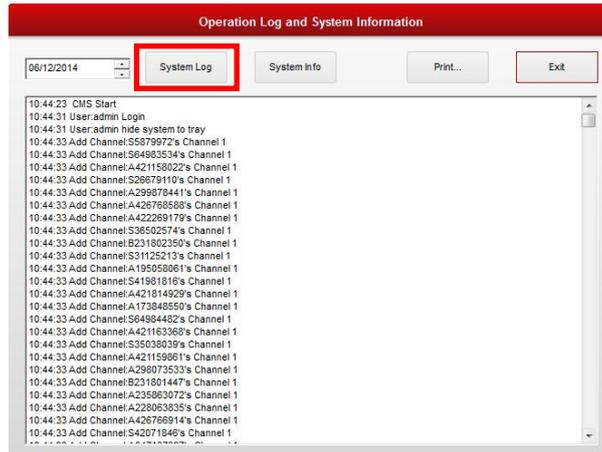


## 2.6.5 System logs and Information

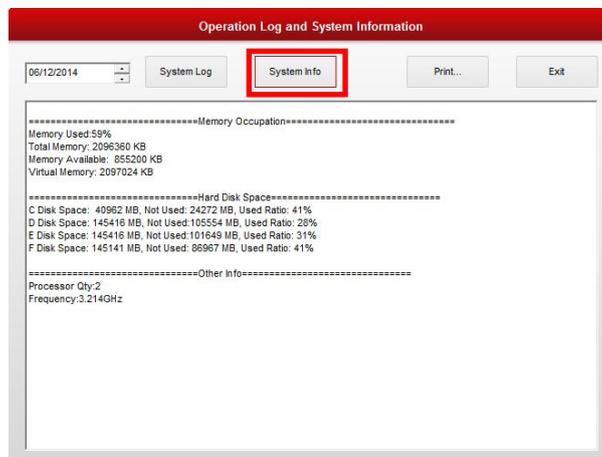
**Function Description:** To check system logs, hard disk storage and other information.

**Operating Steps:**

1. Click **More Function Icon**  in the lower right corner of the interface, choose **System Logs** to view system logs and system information. As the following picture, you can search, view and print system logs.



2. Click System Logs to view system information such as memory occupation and hard disk storage information.

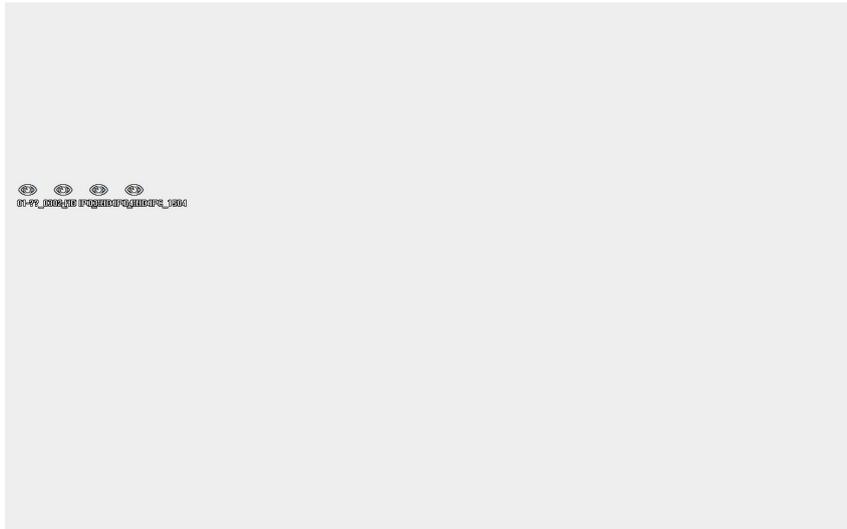


## 2.6.6 Alert-Map

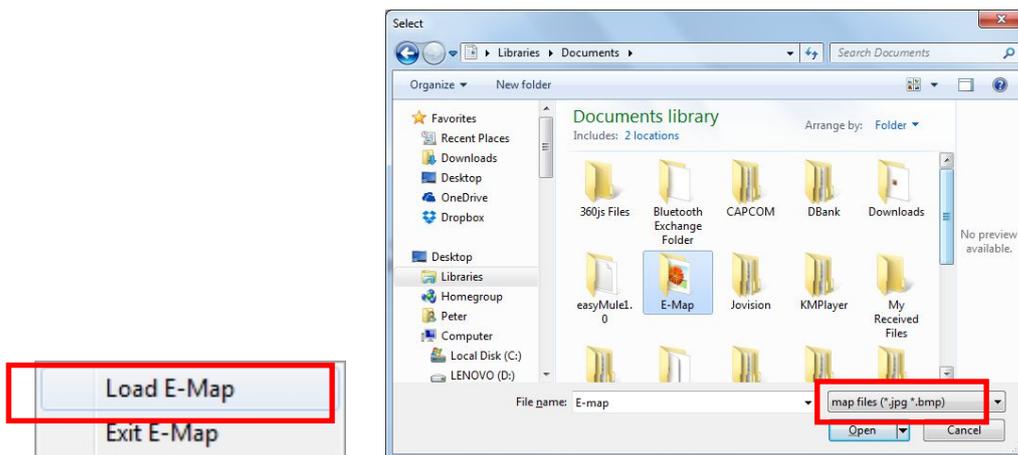
**Function Description:** This function is to load E-map and view the monitoring spot.

**Operating Steps:**

1. Click **More Function Icon**  in the lower right corner of the interface, choose **Alert Map** to open electronic map interface. The interface is as the following:



2. Right click the mouse in the above interface, choose **Load E-map**. The system will open folders to add the E-map document. Choose the map as the following press open to load it:



3. Drag the camera spot to corresponding position in the map. When the camera spot be set, you can easily view the camera spot in the E-map by double click the camera spot. The inter face will be as the following:



Note: Double click the mouse or press ESC button to exit the E-map interface.

## 2.6.7 Turn on/off Audio

**Function description:** This function is to turn on/off audio monitoring.

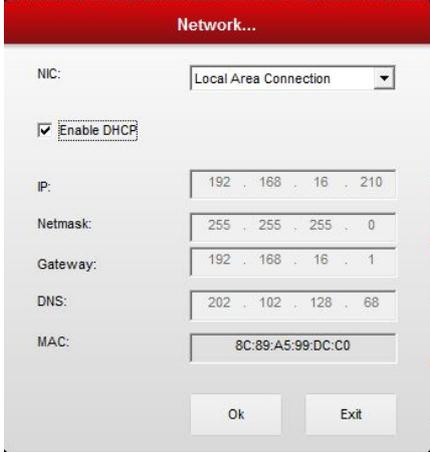
**Operating Steps:** Click the audio icon  or  in the lower right corner of the interface to turn on/off the audio monitoring function.

Note: You can also right clicking the mouse on a video screen, then click turn on/off audio.

## 2.6.8 Setup local Network of PC

**Function Description:** To set the network parameter with the CMS software.

**Operating Steps:** Click the **Setup Local Network** Icon  in the lower right corner of the interface to set network parameter. Press **Ok** to confirm and operate the setting.



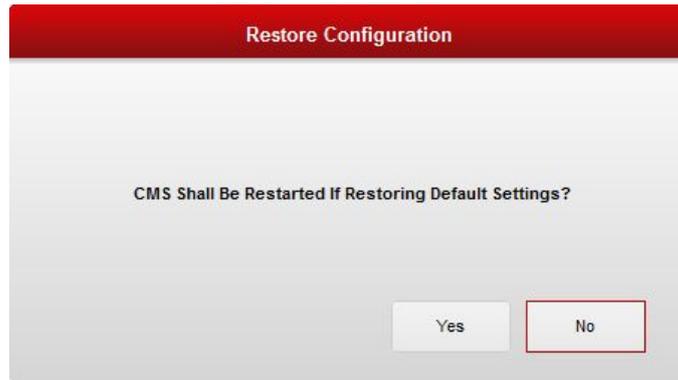
Field	Value
NIC:	Local Area Connection
Enable DHCP	<input checked="" type="checkbox"/>
IP:	192 . 168 . 16 . 210
Netmask:	255 . 255 . 255 . 0
Gateway:	192 . 168 . 16 . 1
DNS:	202 . 102 . 128 . 68
MAC:	8C:89:A5:99:DC:C0

## 2.6.9 Restore Configuration

**Function Description:** To restore all settings according default manufacture parameter.

**Operating Steps:**

1. Click **More Function Icon**  in the lower right corner of the interface, choose **Restore Configuration** in the submenu, then the interface will be as the following.



2. Select Yes to restore configuration as default setting.

## 2.6.10 View System Version

**Function Description:** This function is to view system version number.

**Operating Steps:** Click **More Function Icon**  in the lower right corner of the interface; choose **About System** in the submenu to view System Version.



<The End>