

Client Software-4000(V2.00.02)

User Manual

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Chapter 1 Welcome to Client Software-4000 (V2.0)

1.1 Overview

Client software-4000(V2.0) is the application specially developed for embedded DVR. It is applicable to DVR, DVS, IP Camera, and IP Dome.

There may be technical inaccuracies, or typographical errors in the manual. The contents including description of products and program will be updated without notice.

1.2 Computer Disposition Request

Operating System: Microsoft Windows 2000 or versions above

CPU: Intel Pentium IV 2.4 GHz or models above

RAM: 1G or above

Display: 1024×768 resolution or above

1.3 Convention

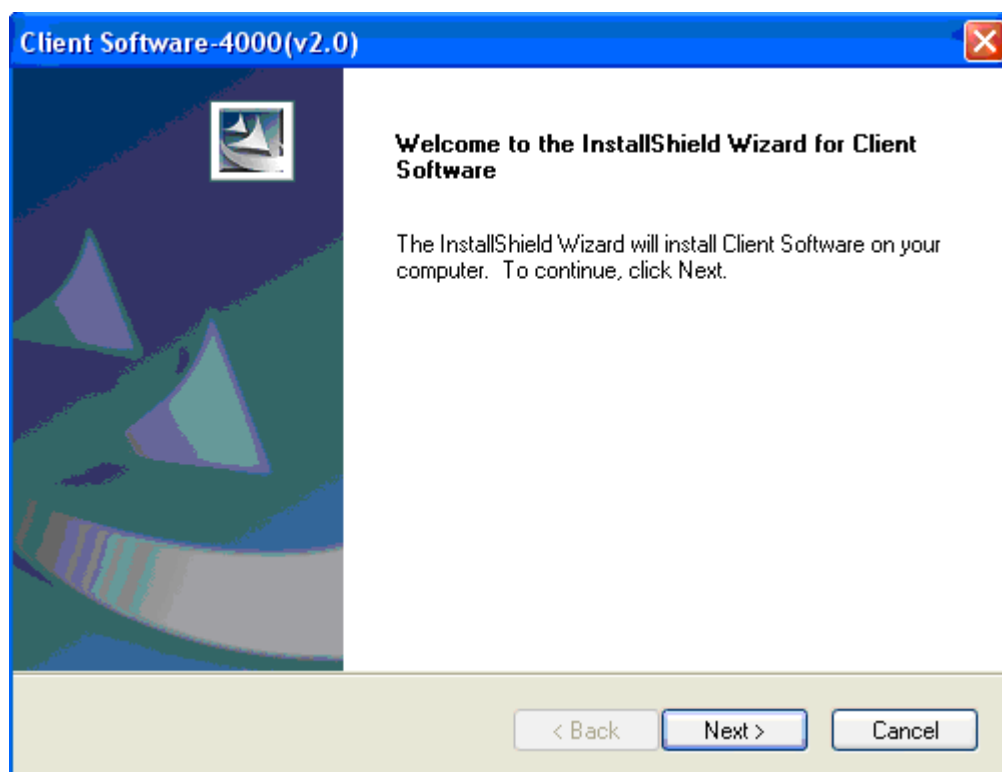
Conventions as follows in this manual:

- ◆ DVR, DVS, IP Camera and IP Dome are all referred to as device
- ◆ Click refers to left click mouse
- ◆ Double click refers to double left click mouse

Chapter 2 Install & Uninstall

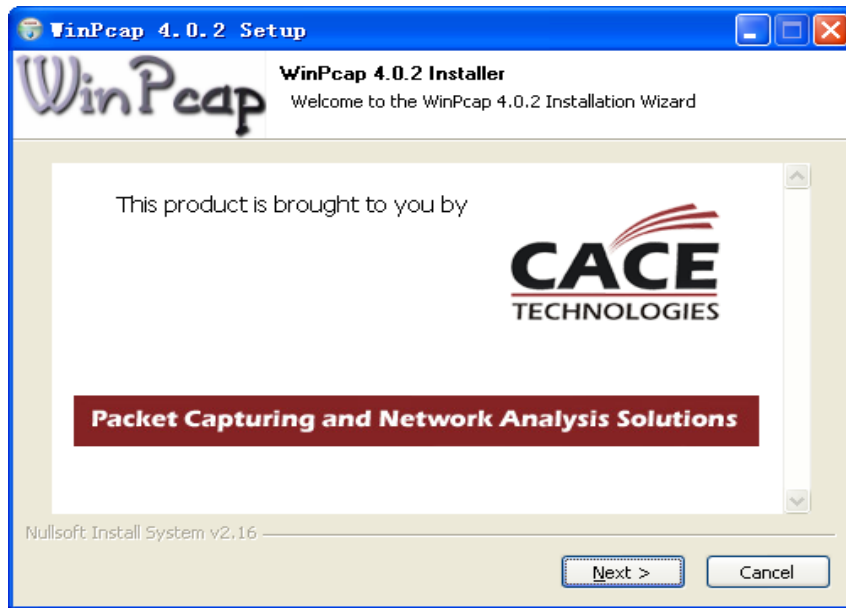
2.1 Install the Software

Double click the software and you will see the wizard shown as below:



Click "Next" to continue, and input the user information, software installed location according to the hints.

After that, a SADP installation wizard will pop up; click "Next" to start to install WinPcap, shown as below. If it is already installed, the installation can be canceled.



Note: SADP is used as the on-line device finder; this function is unavailable if the WinPcap is not installed.

2.2 Uninstall Software

Enter start menu, select "All programs" → "Client Software-4000(v2.0)" → "Uninstall Client Software", and the dialog box shown as below will pop up:



Click "Yes" and start to uninstall the software, the un-installation will finish after the computer restarted.

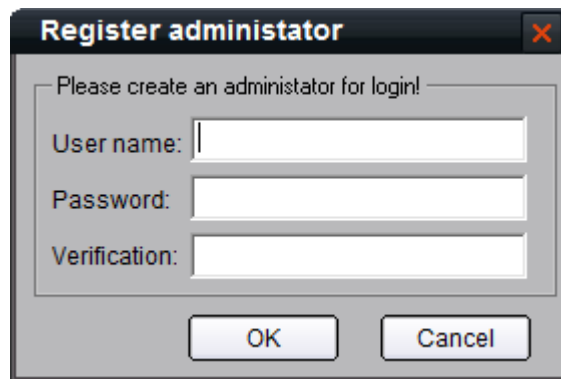
Chapter 3 Basic Operations

3.1 Run & Login


Path: "Start"→"All Programs"→"Client software-4000(v2.0)"→" Client software-4000(v2.0)"

3.1.1 Used for the first time

User needs to register an administrator if the client software is used for the first time, shown as below:

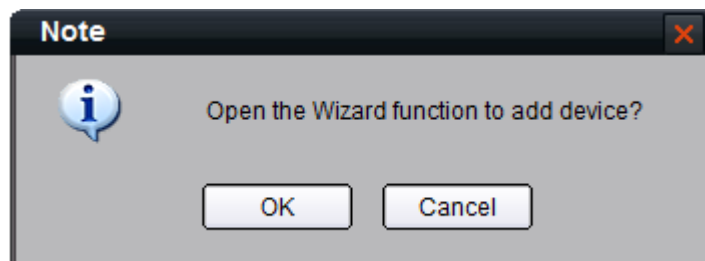


Input the user name and password and click "Register", then user can login as the administrator.

 Note: Enter, Space, TAB is invalid in the user name and password. The password cannot be null, and should not contain the following characters, including "%" and "'". Password should not be less than six and does not support the copy and paste.

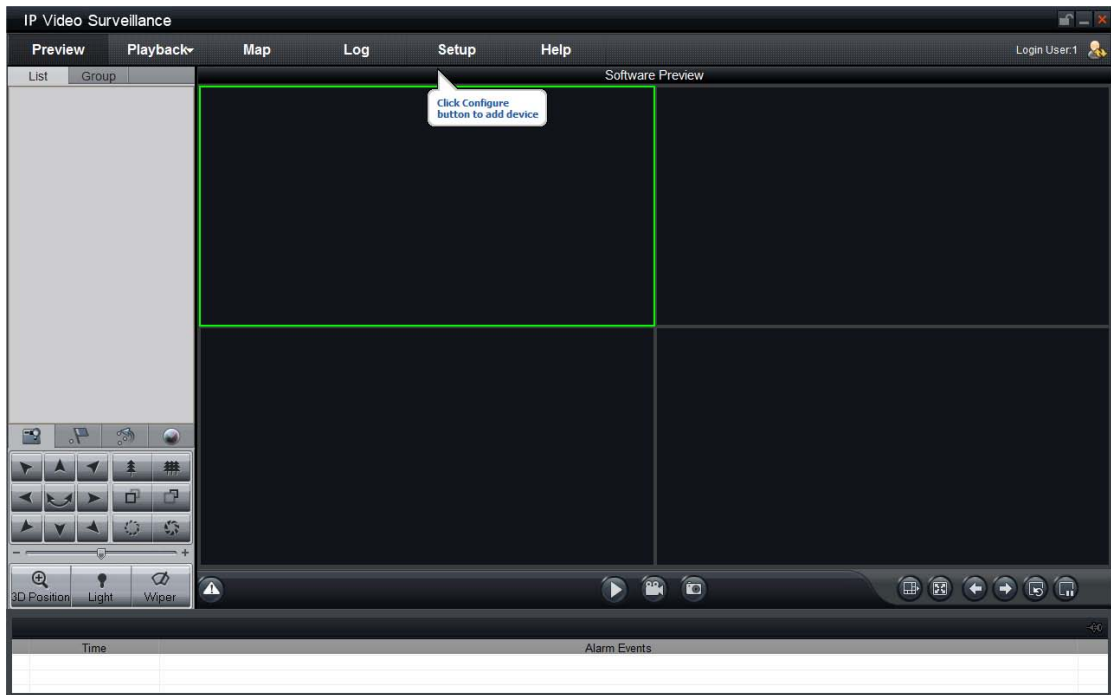
3.1.2 Add Device Wizard

After registered super user and logged in, the note of start wizard will pop up, shown as figure below:

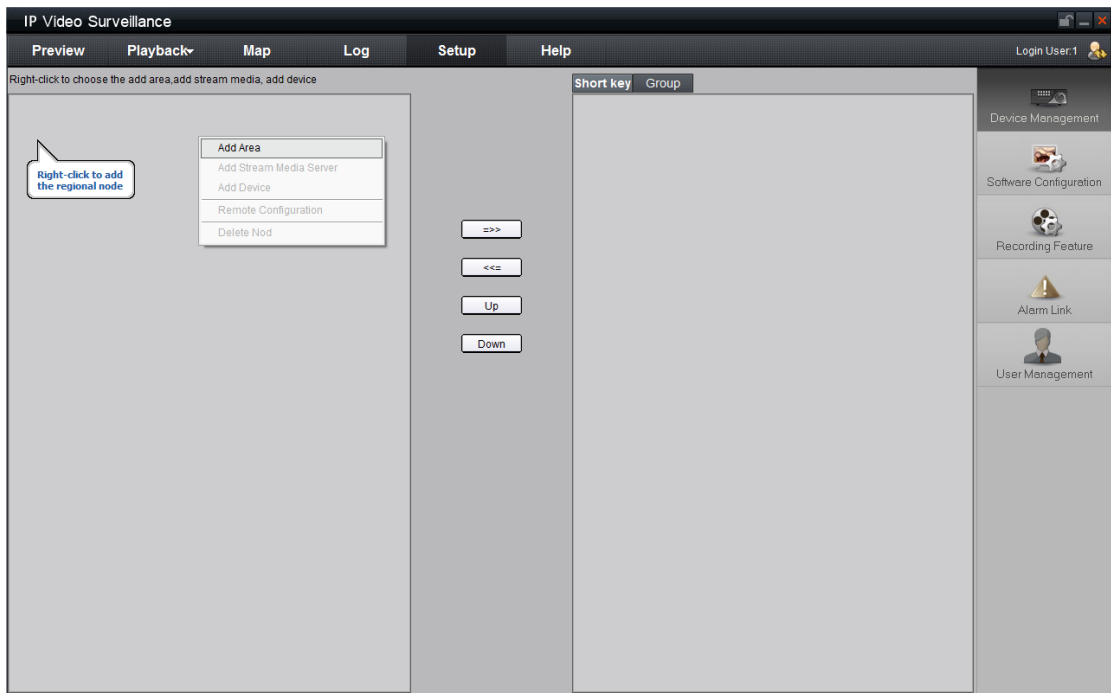


Click "OK" to start the wizard and add the device, click "Cancel" to exit the wizard.

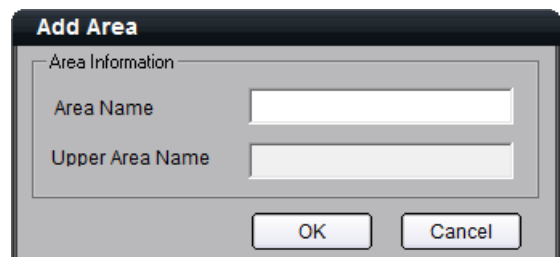
1st step: According to the hint, click  to enter adding device interface.



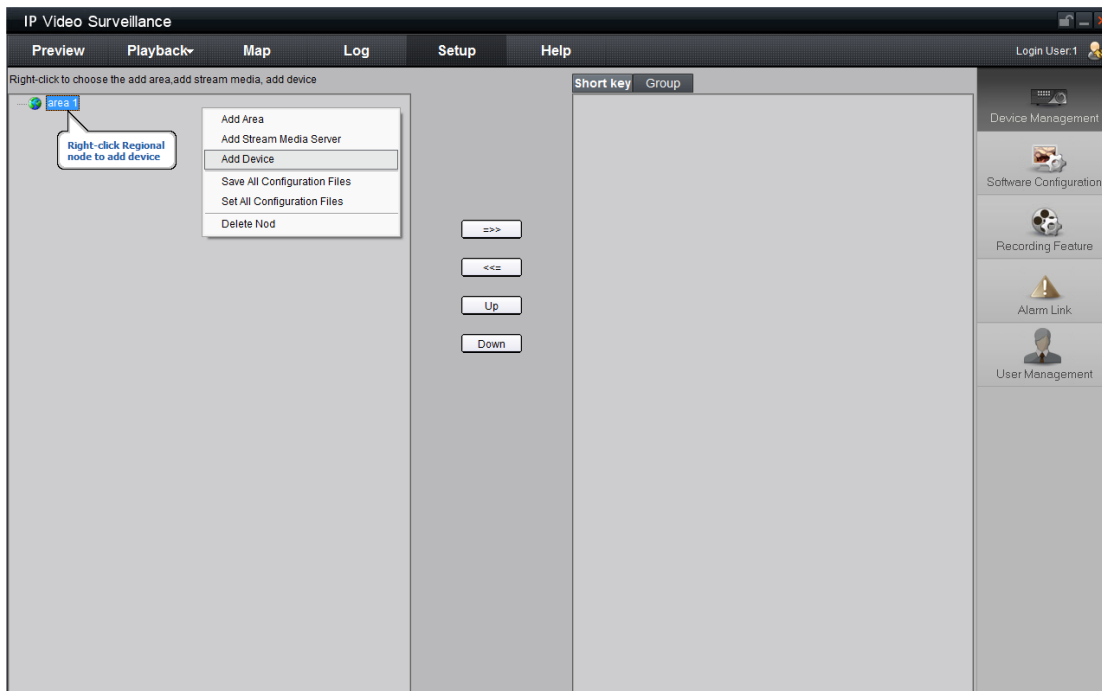
2nd step: According to the hint, right click to add device.



Input a name in the blank of Area Name; click "OK" to save the area.

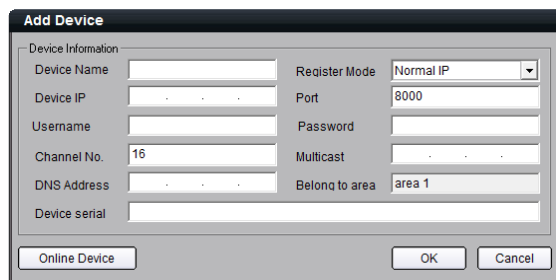


3rd: According to the hint, right click the area name to add the device.



Input device information in the blank of Area device.

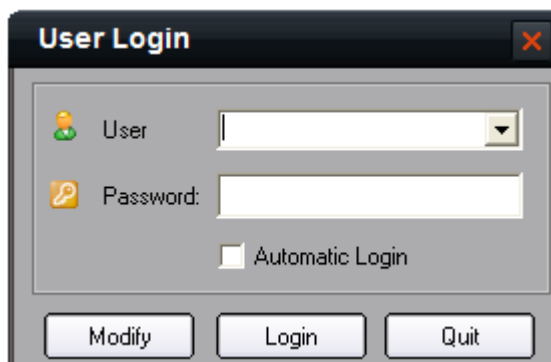
Find more @ [4.1.1 Add device.](#)



3.1.3 User Login

After the administrator registered, when user open the client software, the login dialog box will pop up, shown as below:

Input user name and password, then click "Login" to start using the client software.

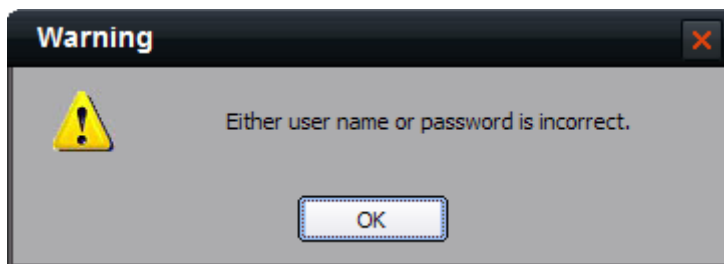


Click Automatic Login to auto save the user name and password, user does not need to input them when

logged in next time.

If user wants to change password, please select a user name and click “Modify”.

If the user name or password is incorrect, the dialog box will pop up, shown as below:

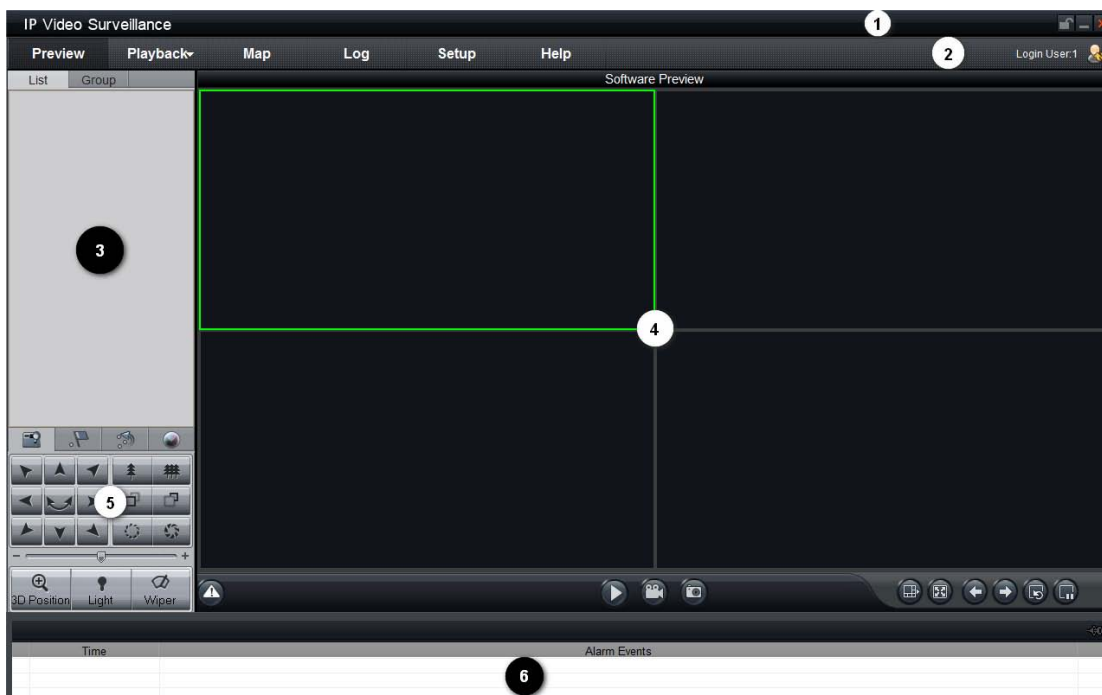


If user wants to cancel login, please press “Quit”.

!Note: Please stop all the operations (e.g. preview, recording, playback and etc.) before switching the users.

3.2 GUI Introduction






There are 6 areas of Client software GUI, shown as below:




Area	Description	Area	Description
1	System Area	2	Menu Area
3	Device Area	4	Preview Area
5	PTZ Control Area	6	Alarm Info Area






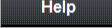
System Area:

Button	Description

	Help button, click to show Help (user manual) and About (Edition Info)
	Lock button, click to lock the interface, mouse status shown as  , re-click to activate login window, and input the correct password to unlock the interface.
	Minimize button
	Exit button

Minimize the client software and right click the icon “

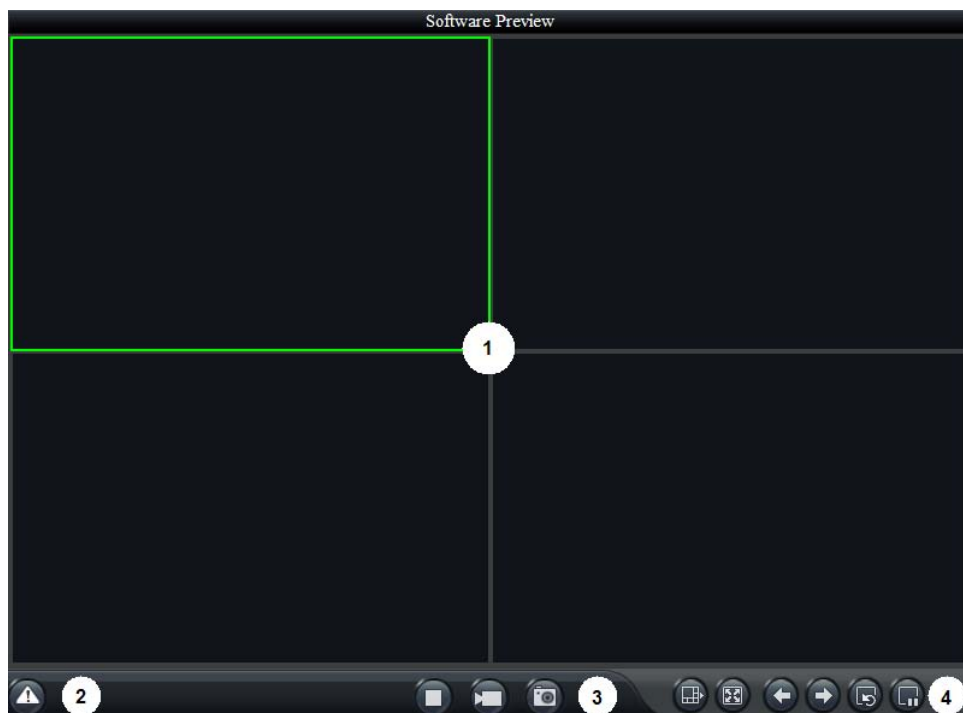
Menu Area:

Area	Description
	Enter preview interface (If the decoding card is installed in PC, then enter the software or hardware decoding interface)
	Enter configure interface
	Enter playback interface, including remote VOD and local playback
	Enter log query interface
	Enter e-map interface
	Enter help (user manual) and about (software info)

Device Area:





Mode	Description
List	Display by list
Group	Display by group

Preview Area:






Area	Description	Area	Description
①	Display windows	②	Alarm indicator
③	Basic function	④	Advanced function

PTZ Control Area:

Icon	Options	Description
	PTZ	Control PTZ
	Presets	Configure and call the preset
	Sequence	Configure and call the sequence
	Video	Brightness, contrast, saturation, hue and volume adjustment

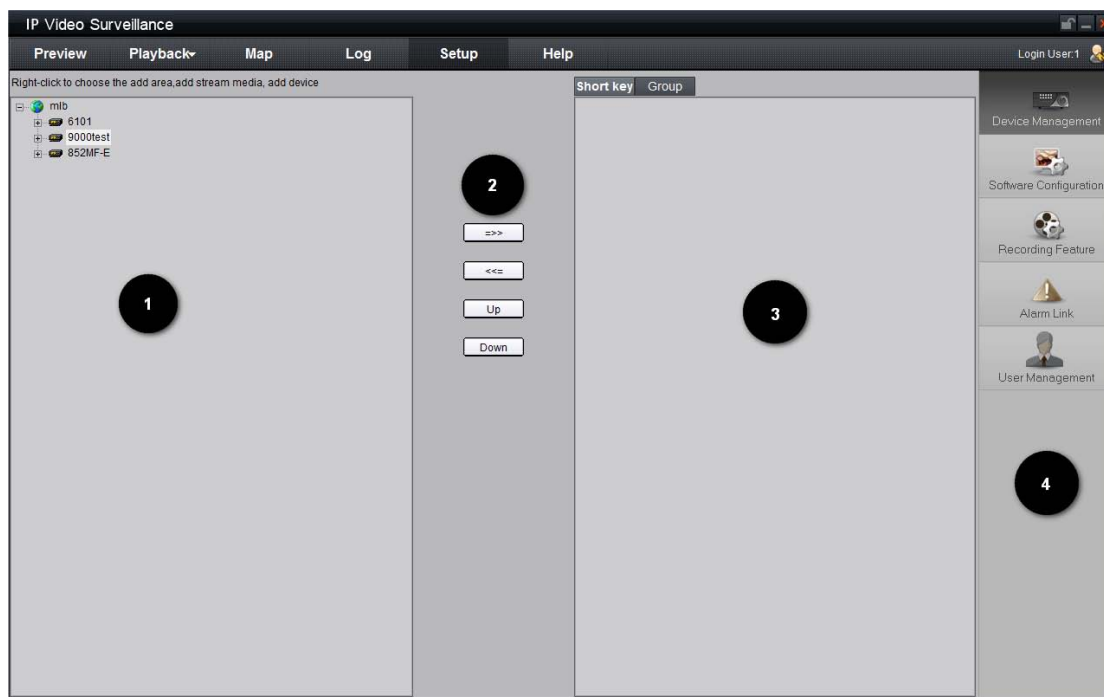
Alarm Info Area:

Display alarm time, information and alarm sign. The area size can be enlarged by dragging the upside of the area.

You can fix the area size by clicking icon "" and turns to "", after it returns to "", the area size will resume to original size.

Chapter 4 Device Management

Before any operations, user needs to add device and configure it. Click **Setup** to enter the configure mode, and then click **Device Management** to manage the device.



Area	Description	Area	Description
1	List Area	2	Configuration Buttons
3	Group/Short key Area	4	Navigation Bar

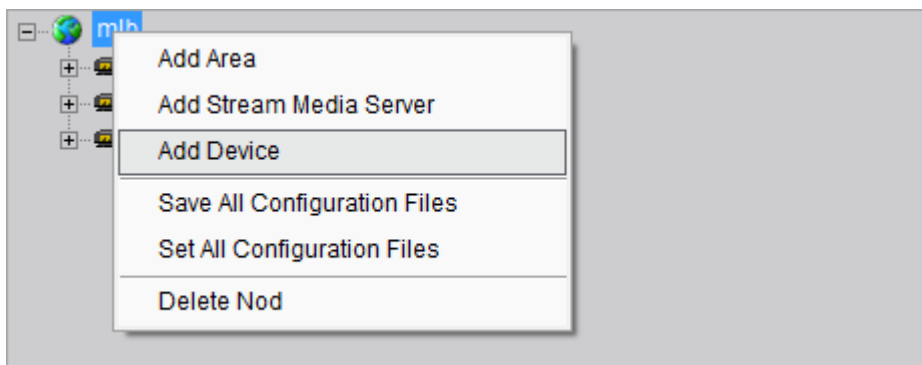
4.1 List Configuration


The list area is empty when the client software runs for the first time, right click in this area you can choose to add area.





Input a name in the blank of Area Name; if there is no upper area, the blank of Upper Area Name is not enabled.

After area added, right click the area name and the sub-menu will pop up, shown as figure below. Select “Add Area”, you can add sub area, select “Delete Nod”, you can delete the area.



 Note: Enter, Space, TAB is invalid in the area name, which cannot be null, and should not contain the following characters, including “%” and “””.

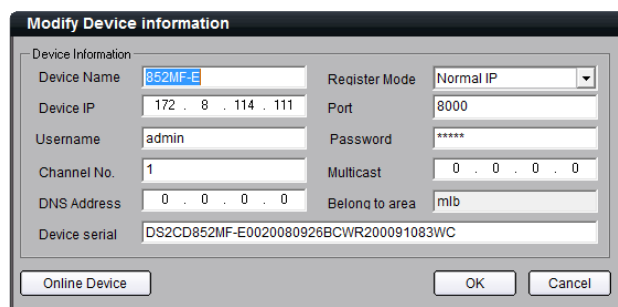
 Note: User can max add 50 areas here.

 Note: When the option “Delete Nod” selected, the sub areas, stream media servers, and devices under the root of this area will be deleted as well. Before that, you need to stop preview or record, otherwise there will be warning information popping up.

4.1.1 Add Device


Right click the area and select “Add Device”; the sub menu will pop up.

You can also add PCDVR here in the same way with other devices.

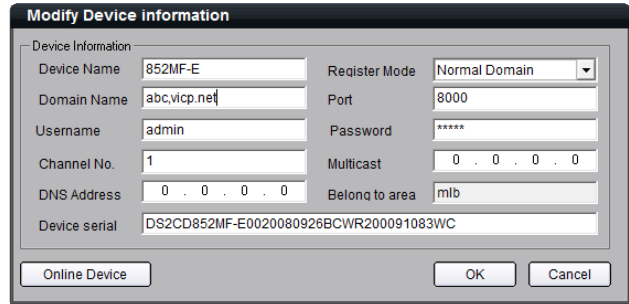


Options	Description
Device Name	User-defined
Register Mode	Normal IP, Private Domain, Normal Domain
Device IP	IP address of the device
User Name	User name of the device (default: admin)
Password	Password of the device (default: 12345)
Channel No.	The channel number of the device
Port	Device port (default: 8000)

Multicast Address	Used when visiting the device by the way of multicast, or else leave it blank
DNS Address	IP address of IP server when adopting private domain, or else leave it blank
Device serial No.	Used when adopting private domain, or else leave it blank

 Note: When adopting private domain, if you input device serial number, which can be used for obtaining the IP address from IP server; If not, the IP address can be obtained by device name from IP server, i.e. in that case, the device name that input here should be the same with the one in the device.

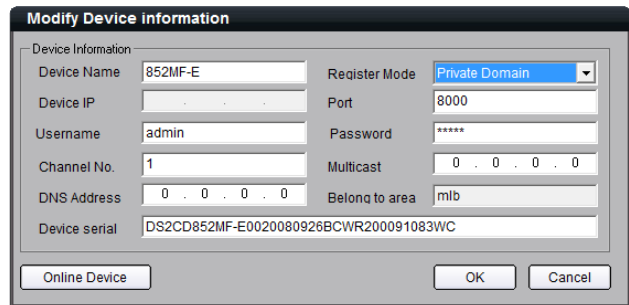
If you select normal domain, please filling the blank of domain name with the registered domain name.



The dialog box shows the following fields: Device Name (852MF-E), Register Mode (Normal Domain), Domain Name (abc.vicp.net), Port (8000), Username (admin), Password (*****), Channel No. (1), Multicast (0.0.0.0), DNS Address (0.0.0.0), Belong to area (mlb), and Device serial (DS2CD852MF-E0020080926BCWR200091083WC). Buttons for 'Online Device', 'OK', and 'Cancel' are at the bottom.

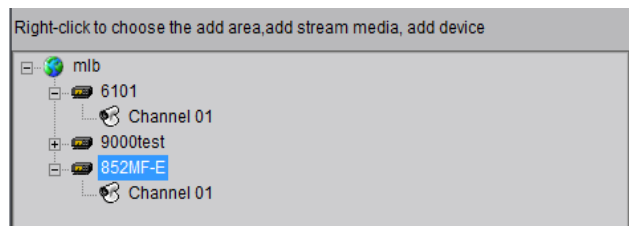
Private domain: If the device is configured with the address of IP Server that runs normally, then the connected device can be resolved by IP Server; and client software can get the dynamic IP address from IP Server by server name or serial number.


If you select private domain, please input the correct device serial number and IP address of IP server in the DNS Address blank.



The dialog box shows the following fields: Device Name (852MF-E), Register Mode (Private Domain), Device IP (blank), Port (8000), Username (admin), Password (*****), Channel No. (1), Multicast (0.0.0.0), DNS Address (0.0.0.0), Belong to area (mlb), and Device serial (DS2CD852MF-E0020080926BCWR200091083WC). Buttons for 'Online Device', 'OK', and 'Cancel' are at the bottom.

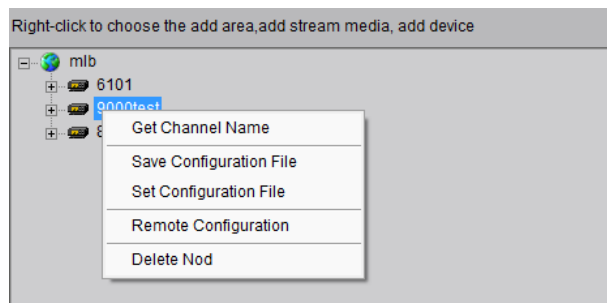
Click OK to finish adding device.
Right-click menu is available, double click the node can modify the device parameters.




 Note: 50 devices can be added here at most.

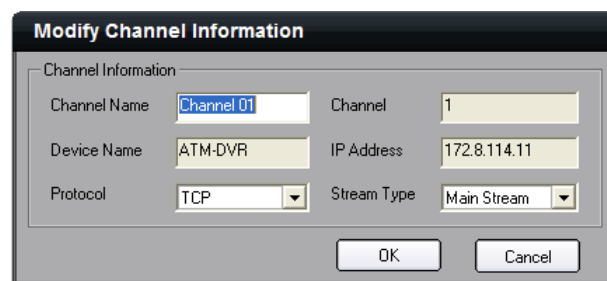
4.1.2 Channel Configuration

Click “Get Channel Name” to get the names of all channels.




 Tips: Main stream is for device encoding; sub stream is for network transmission.

Double click the channel name and the “Modify Channel Information” dialog box will pop up.



Channel Name	Current channel name that can be changed.
Channel	Channel number of the device, unchangeable
Device Name	Device name that unchangeable
IP Address	Device IP address that unchangeable
Protocol	Select connection protocol: TCP, UTP, MCAST and RTP.
Stream Type	Choose main or sub stream for the channel

 Note: The channel name will be replaced with the name saved in the device, if the option “Get channel name” is selected.

4.1.3 Channel Configuration of 9000 series DVR

If the 9000 series DVR is added to client software, then the IP channel management and enable or disable analog channel functions are available.

Right click the device name and select “Remote Configuration”, then the “Channel Configure” menu will pop up. The “Analog Camera” will show by default.

Double click the selected analog channel to enable or disable it.



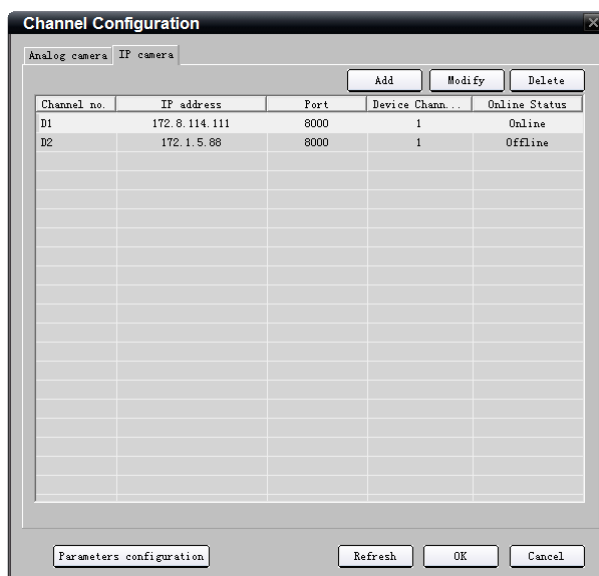
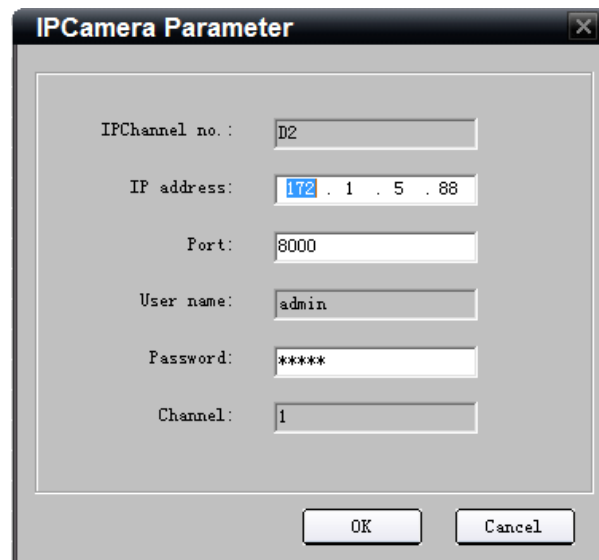
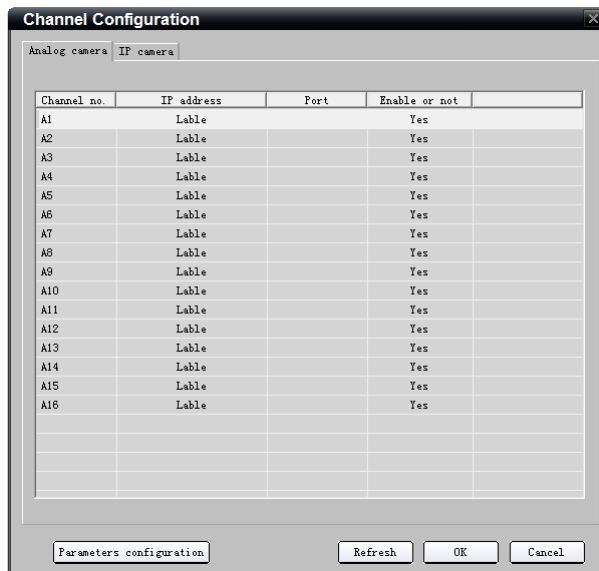
Note: 9000 series DVR can not preview and record this channel after it is disabled, unless it is enabled again.

Click “IP camera” to enter the interface of IP channel management.

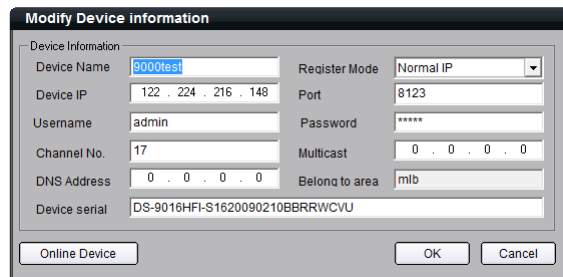
Click “Add” to add IP channel.
Input the IP address, user name, password and port, and then click “OK”.


Double click the selected channel to modify the parameters.

Click “Delete” to delete the selected channel.




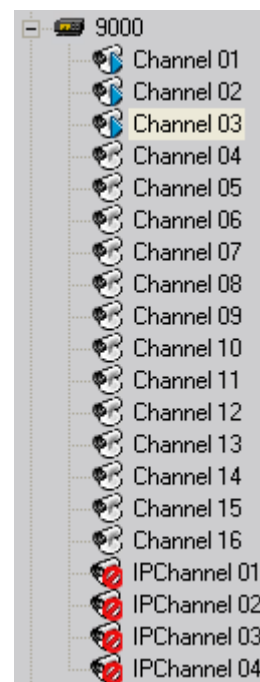
After that, you can change the channel number according to the added channels. Double click the device name to modify the device information.



 Note: 9000 series DVR max supports adding 16 analog channels, 8-ch IP Camera, please refer to the user manual of DS-9016HFI-S for more details.

After that, the added IP channel will be seen in the channel list of the device.

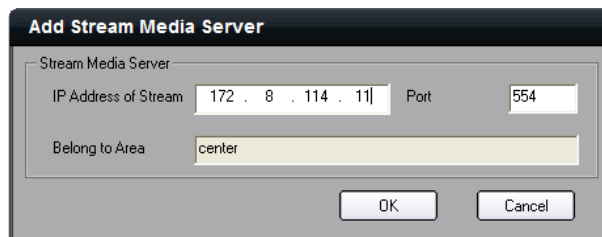
If IP channel can not be connected, the n shown as 




4.1.4 Add Stream Media Server

Adding stream media server can solve the network confined problem and reduce the bandwidth stress.


Right click the device name and select “Add Stream Media Server”. Input the IP address and Port (default 554) of server, then press “OK”.



 Note: If the channel is being previewed or recorded, the settings will become effective after preview and recording restarted.

Double click the server to modify the parameters.
 Right click the server and select "Delete Nod" to delete server.

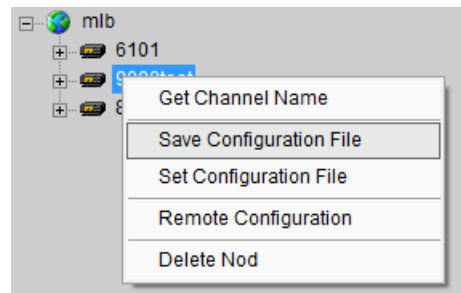


 Note: No more than one stream media server can be added to one area, however, of which stream media server can be added in sub area.

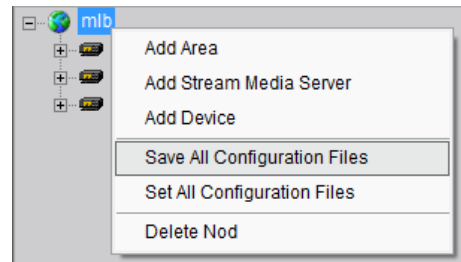
4.1.5 Import & Export Configuration Files

Right click the device name and the sub menu will pop up.

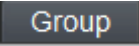
Click "Save Configuration File" to export configuration file and "Set Configuration File" to import configuration file.



Right click area name and select "Save All Configuration File" to export all configuration files, and "Set All Configuration File" to import all configuration files.

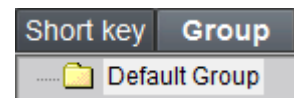


4.2 Group Configuration

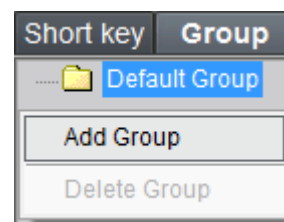
Click the  button to enter group area management window.

4.2.1 Group

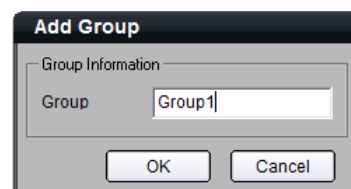
There is the default group. You can add channels in it or delete it.



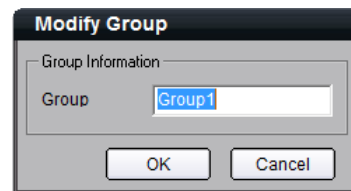
Right click in the empty area and you will see sub menu as shown on the right.
Select "Add Group".




Input the group name and click "OK".




Double click the group name to change the group name.
Right click the group name and select "Delete Group" to delete the selected group.

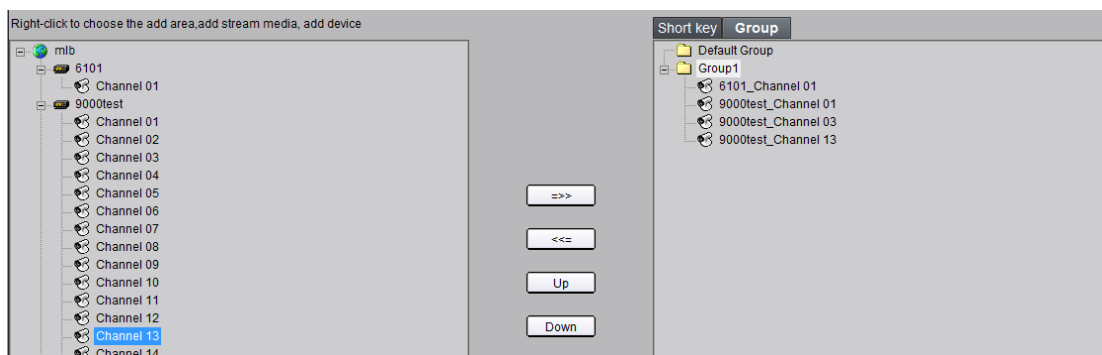



 Note: Enter, Space, TAB is invalid in the group name, which cannot be null, and should not contain the following characters, including "%" and "".

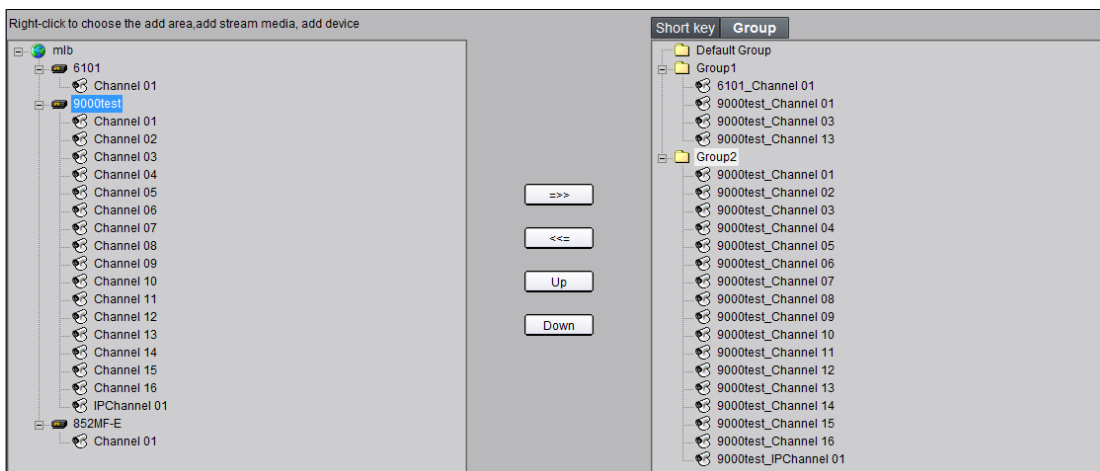
4.2.2 Channel


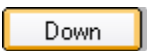
After adding the group, the channels in the list area can be moved to selected group.


Select the channel from the list area, and click  key and move it to the group. The type of channel name in the group area is as "device name_channel name of the list area".




Select the device in the list area and click  key and all the channels of the device can be moved to the selected group.



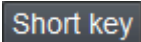
Using  and  keys to adjust the channel sequence in the group list.


Using  key to delete the channel or group in the group area


 Note: One channel can be added to one group for only once. Different groups can contain the same channel.


Max 50 channels can be added to one group.

4.3 Short Key Configuration

Click  button to enter short key management window. Only the channels can be added to the short key area.

Select the channel from the list area, and click  key and move it to the short key area. The type of channel name in the group area is as “device name_channel name of the list area”.

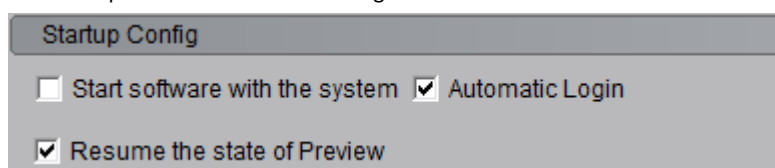
Select the device from the list area, and click  key to add all the channels of the device to the short key area.

Using  key to delete the channel in the short key area

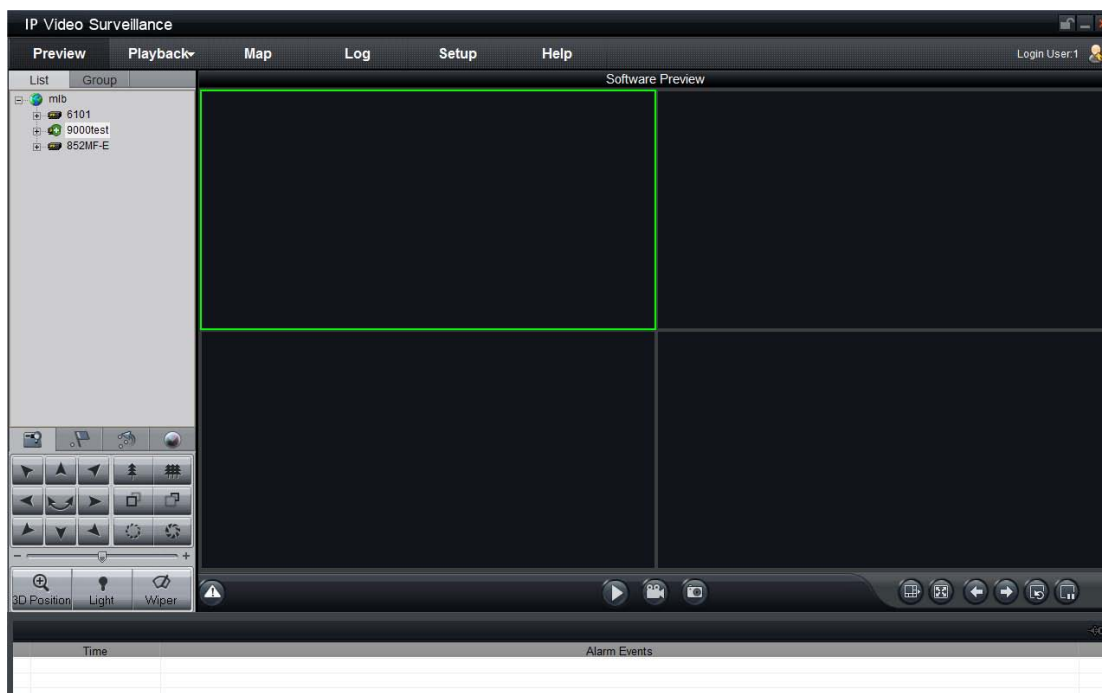
Chapter 5 Preview

After configuring the device, double click the **Preview** key to return to the preview interface. Click the “List” and “Group” keys to switch between two modes.

Click **Setup** key and then **Software Configuration** key and **Advanced** button to enter “Advanced Configuration” and enable **Resume the state of Preview** option to save current preview state including window division and preview channel for next login.




Play windows are divided into 2x2 mode, max support 64 window divisions.



Preview Panel Buttons Descriptions:

Area	Description	Area	Description
	Play		Record
	Capture		Window division
	Multi-screen		Previous/Next page
	Resume cycling all the device		Stop cycling all the device

 Note: The window division and channel sequence can be remembered by the Client Software as exited, and will play automatically after login next time.

5.1 Non-cycle Preview

5.1.1 Play by Node

Double click the device name or drag it to the play window to preview (not enable cycle preview)

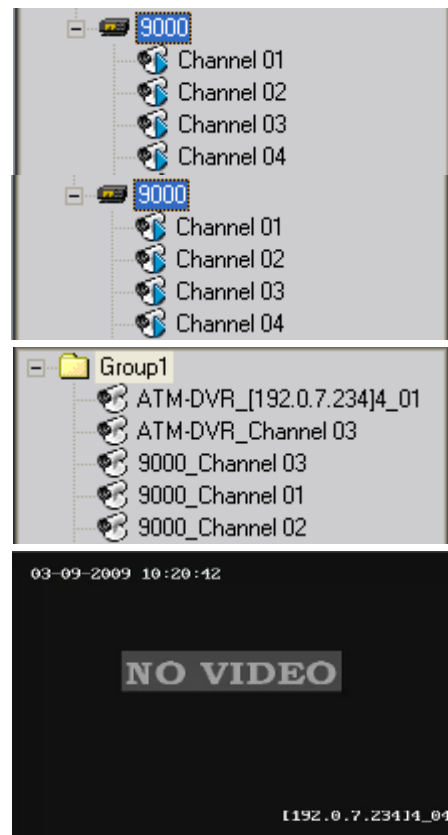
Double click the channel name to preview the corresponding cameras

Double click the device name to preview the corresponding cameras of the device in the current window divisions.

Double click the group name to preview the corresponding cameras of the group in the current window divisions.

You can also preview them by dragging them to the play windows.

The play window shows as the figure on the right.





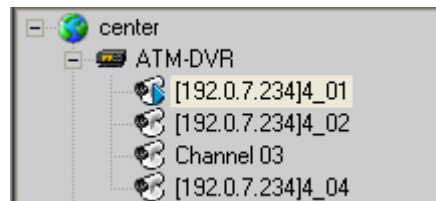
5.1.2 Short Key Preview


If the short key has been configured, then press "Play" key of the preview interface to view all the corresponding channels in the short key area in the current window divisions. Find more @ [4.3 Short Key Configuration](#)

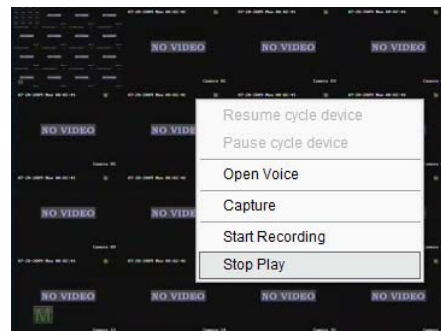
5.1.3 Stop Playing

There are 3 ways to stop live preview.

The play icon , double click it to stop previewing this channel and the icon will become 




Right click in the play window and the play menu will pop up. Click "Stop Play" and the live view will stop. Meanwhile the play icon will become 

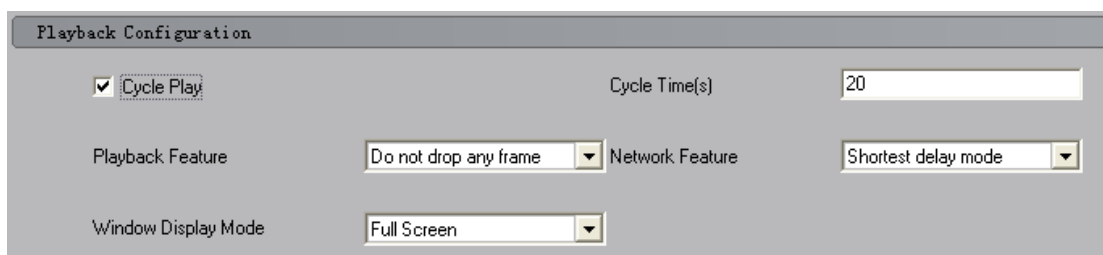


Click the  key in the preview panel to stop all the live view channels.

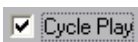
5.2 Cycle Play


5.2.1 Configuration

Click  key to enter the configuration interface. Then enter the local configuration by click "Software Configuration" key.




Enable Cycle:

Click  to enable cycle play, and input the cycle time, then press "Save" and return to preview interface.

 Note: Cycle time should be between 20 and 3000s.

Disable Cycle:


Click  to disable cycle play and save.


5.2.2 Mixed Cycle



Mixed cycle mode enables client software cycle previews channels of the group or short key, the default window division is 2×2.




5.2.2.1 Cycle Play of Short Key Channels

Click “List” key to display channel list.

Click  key to start mixed cycle play. Take 2×2 window division for example, if there are 8 channels in the short key area, then start cycle playing, the first 4 channels will be displayed in the window, after one cycle period, the last 4 channels will be displayed in the window.


Click button  in the preview panel to stop the channel mixed cycle of short key.



Click  key to display the first 4 channels, click  key to display the last 4 channels.

 Note: Click button  or  to pause the channel sequence cycle of short key. This function needs short key configuration first (Find more @ [4.3 Short Key Configuration](#))

5.2.2.2 Cycle Play of Group Channels

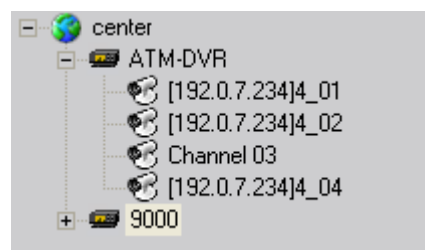
Click “Group” key to display group channel list. (Please stop playing before switching to group channels.)

Click  key to start mixed cycle play. Take 2×2 window division for example, if there are 2 groups in group area, each of them has 4 channels, then start cycle playing, 4 channels of the first group will be displayed in the window, after one cycle period, 4 channels of the second group will be displayed in the window.

Click  key to display the first 4 channels, click  key to display the last 4 channels.

5.2.3 Cycle Play of Device/Group

Double click the device name and all the channels of the device begin to cycle in the selected window division from the 1st channel.



Double click the group name and all the channels of the group begin to cycle in the selected window division from the 1st channel.



Drag the node of the device to the window, and then all the channels of this device begin to cycle.


Drag the node of the group to the window, and then all the channels of this group begin to cycle.



5.2.4 Pause Cycle

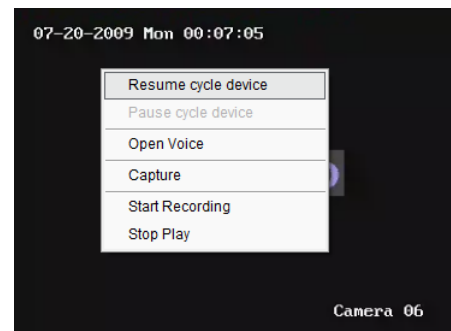
If the current window is in the device/group cycle mode, right click the cycling window, click "Pause cycle device" or "Stop cycle group" to pause cycling and remain the current image.



Click "Pause all cycle devices" key  to pause all the cycling channels.

5.2.5 Resume Cycling

If the current window is in the device/group cycle mode, right click the paused window, click "Resume cycle device" to restart cycling.



Click "Resume all cycle devices" key  to restart all the paused channels.

5.3 Preview Control

Full Screen:

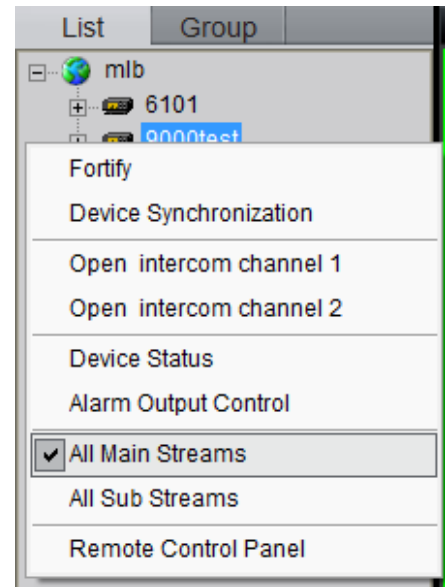
When previewing, click  key to preview in full screen, to exit click  key.

Enlarge:

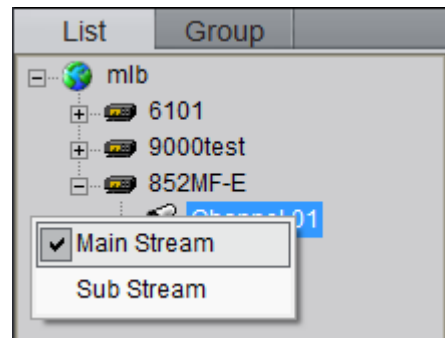
When in the multi-screen preview mode, double click the selected image to enlarge it, double click again to resume.


Main/Sub Stream (Available for hardware preview):

Right click device name and select “All Main Streams” or “All Sub Streams” to change the device stream type.



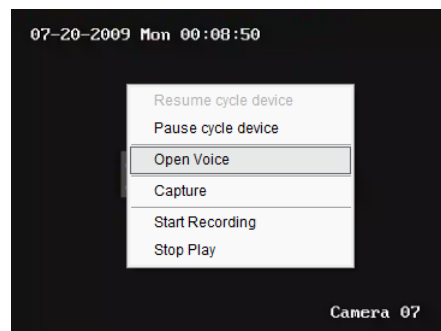
Right click channel name and select “All Main Streams” or “All Sub Streams” to change the channel stream type.




 **Tips:** Main stream is for recording, sub stream is for network transmission when bandwidth is low. The stream will take effect after re-preview the device or channels.

5.4 Voice Control


Right click the selected window, select “Open Voice” to enable audio preview, right click again and select “Close Voice” to disable audio preview.



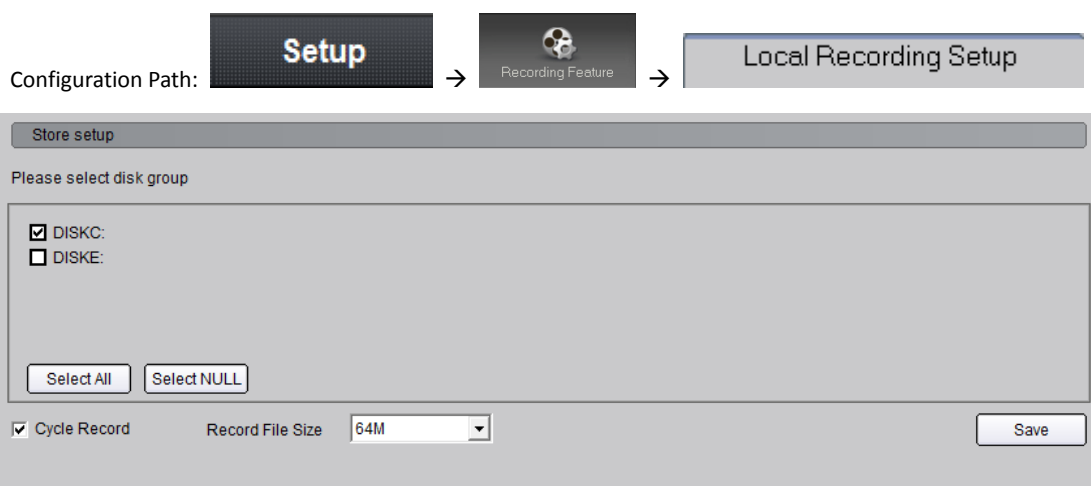
 Note: The software only can open voice of one window at the same time. If the voice of the next window is opened then the voice of the previous will be closed automatically.

5.5 Recording & Capture




Recording and capture is only available in the live view mode.

 Note: If the channel is in the recording mode, click “Stop” button to stop recording, and the preview, cycle play are stopped as well.

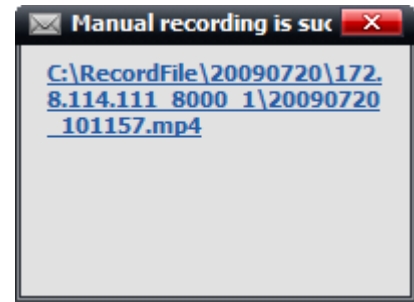
5.5.1 Recording



Select the saving hard disk of recorded files in “Store setup”.

When previewing, click  key to start recording, and the icon becomes as . The channel icon becomes as .

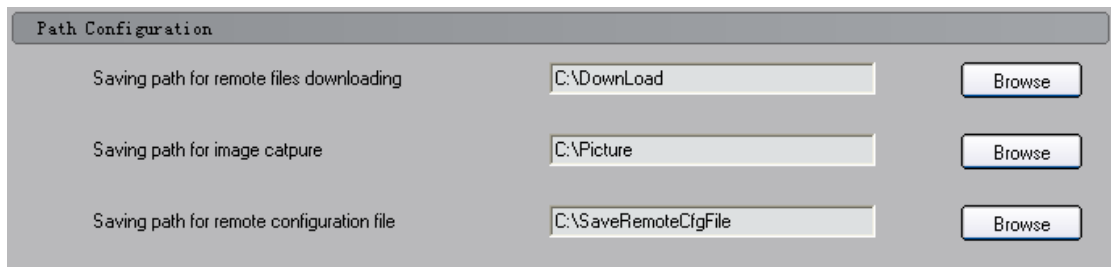
After recording, the hint window with index of recorded files will pop up; click the hint to open the target folder.




5.5.2 Capture

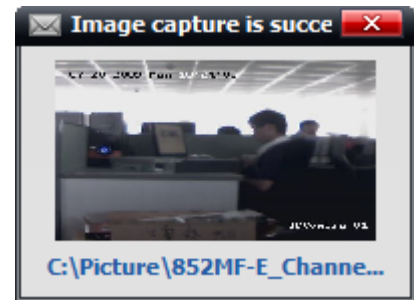


Default saving path: C:\Picture, click  key to change the saving path.



When previewing, click  key to start capture.

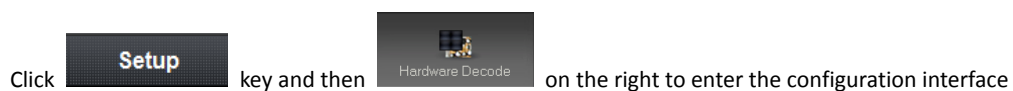
After capture, the hint window with capture index will pop up; click the hint to open the target folder.

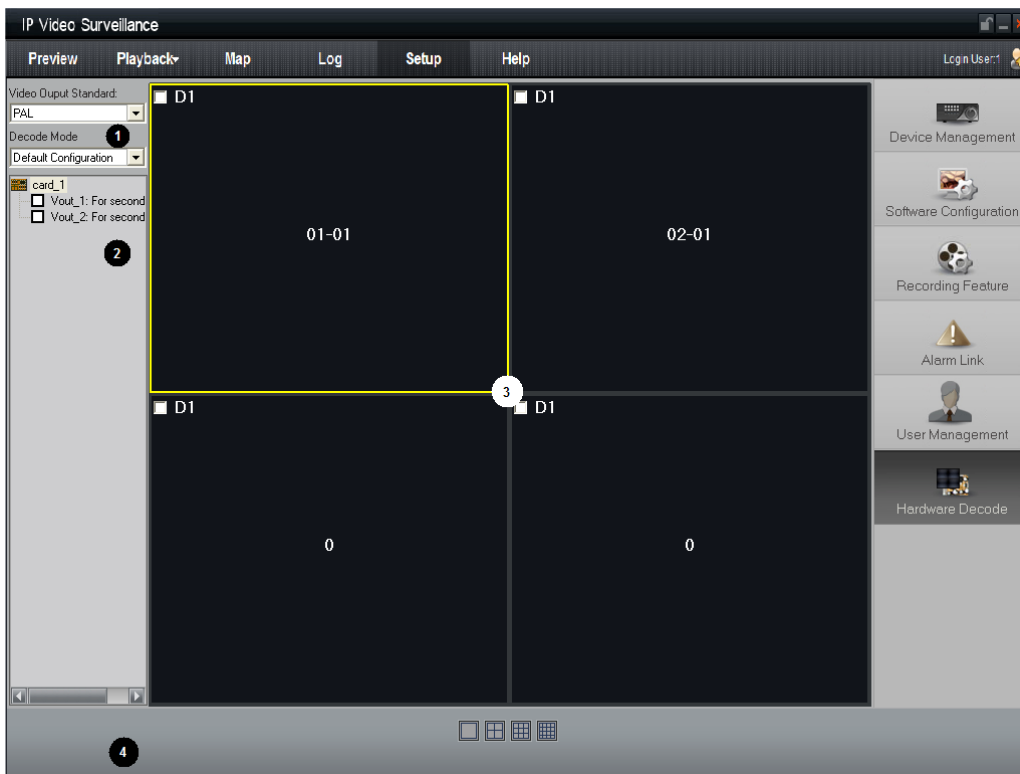


5.6 Hardware Decode

If there is video/audio decoding card installed in the computer, then this function can be available.

5.6.1 Hardware Decode Configuration






The area descriptions are as follows:

Area	Description	Area	Description
①	Configuration Area	②	Decoding Card Info Area
③	Output Window Area	④	Window Division Mode Select Area

- ① Configuration Area: 2 options including Video Output Standard & Decode Mode.
- ② Decoding Card Info Area: Show the information of the decoding cards and channels.
- ③ Output Window Area: Configure the output mode of decoding channels.
- ④ Window Division Mode Select Area: Select window division mode.

5.6.1.1 Hardware Decode Mode Configuration

The decoding card installed in the PC can be recognized and initialized automatically as client software starts up, and the information will be displayed in the decoding card info area. The icon  means decoding card and the sub-nodes show the information of decoding channels.

The hardware decoding modes of MD card including: default, preview on & TV wall on, preview off & TV wall on.


Hardware Decode Mode	Descriptions
Default	Each 4002MD card decodes 2 channels; each 4004MD card decodes 4 channels and so

Configuration	on. Support decoding and cycling play.
TV wall on & Preview on	The images from the play window of client software and TV wall are decoded by MD card, which needs to configure in the hardware decode configuration.
TV wall on & Preview off	The images from the TV wall are decoded by MD card; the images from the play window of client software are decoded by CPU.

If the resolution of all the images is CIF, then the max decoding channel number is: 4 channels for each 4002MD card; 8 channels for 4004MD card.

If the resolution of all the images is D1, then the max decoding channel number is: 2 channels for each 4002MD card; 4 channels for 4004MD card.

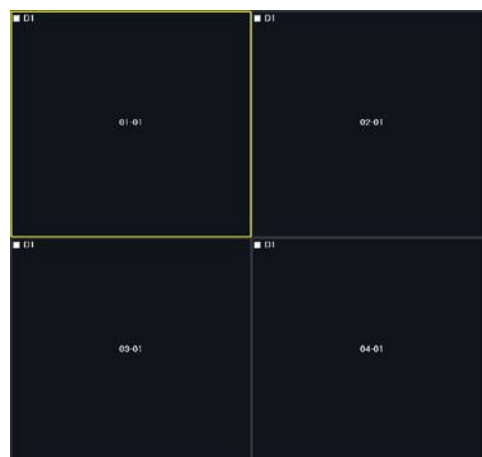
 Tips: Video Output Modes including PAL & NTSC.

 Note: The video output mode of images from device and TV wall need to be the same standard, or else the image will become abnormal.

5.6.1.2 Hardware Decode Output Window Configuration

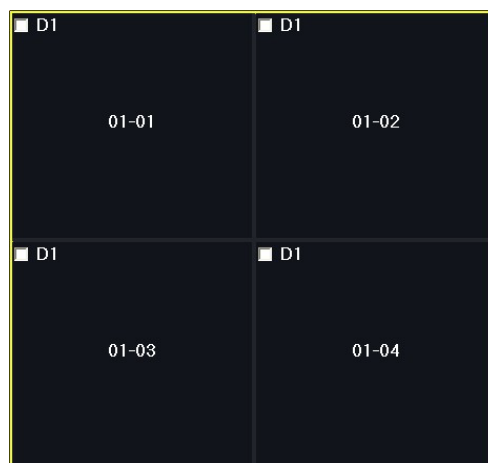
The “output window panel” has a multi-window division according to the total MDI card BNC number. One window is related to one BNC.

Take one 4004MDI card for example, there are 4 BNCs and the “output window panel” will show you 4 windows division. Window is named as 01-01, 02-01, 03-01 and 04-01.

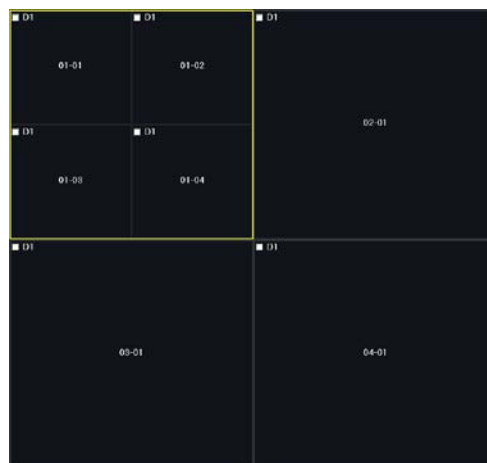



Select one window on “output window panel” and click window division button to select a window division on this BNC.

For example, if we select the first window 01-01 then divide into 4 windows, the 4 windows will be named as 01-01, 01-02, 01-03, 01-04.



Tick the check box D1 on each window to set the channel decode D1 resolution stream.




 Note: If the default mode is selected, then each decoding channel outputs one single image and division mode is invalid.

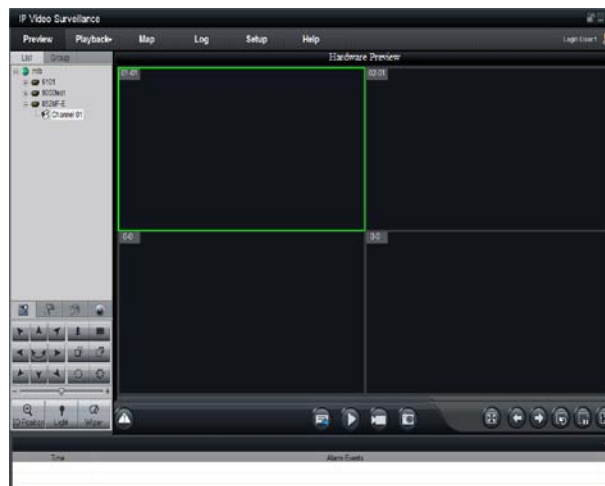
5.6.2 Hardware Decode Preview

After configuration, click “Preview” key and select “Hardware Preview” to enter the hardware decode interface.



Click  then start to decode, at the moment, preview windows layout will switch to the layout which set in “output window panel”.

The window exceed maximum decode channel won't be displayed.

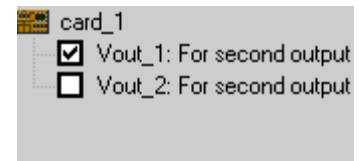



The basic operations of hardware preview are the same with software decode, please refer to sections 5.1-5.5 for more details.


5.6.3 Secondary Output of Hardware Decode

MD card can output the decoded images twice. Take 4002MD card for example, one 4002MD card can decode 4 channels CIF images, assume they are channel01, channel02, channel03, and channel04; if one decoding channel is set as 4 divisions and separately display channel01, channel02, channel03, and channel04, then the other decoding channel can only support one division and select one decoding channel to output the image. The descriptions above are defined as secondary output.

Enter hardware decode configuration interface, and tick the channel that set as secondary output and the channel status will become



Click  in the window division to display secondary output list.

 Note: The system will clear the previous configuration information of the secondary output channel.

Second Output is vacant

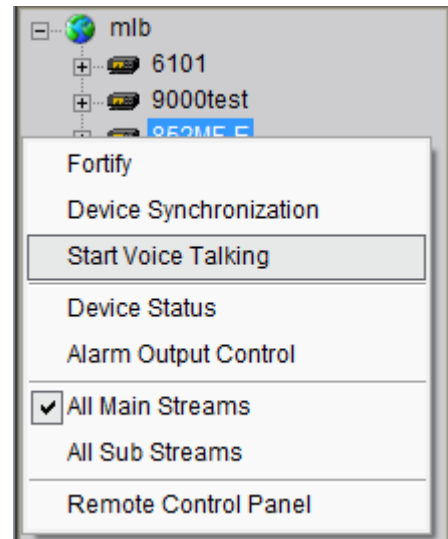
Card Name.	Vout Name.	Area Num.
<input type="checkbox"/> Card_1	Vout_02	01

5.7 Others

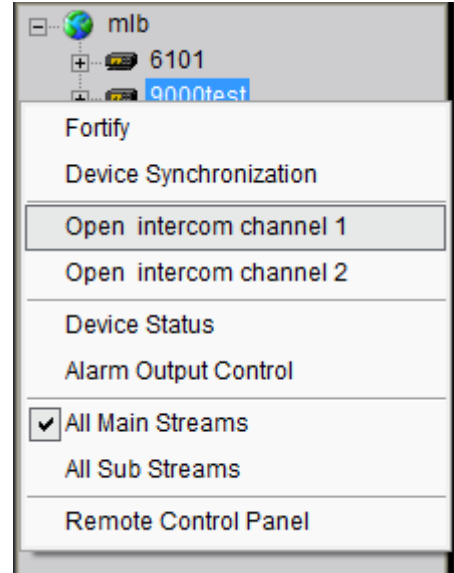
5.7.1 Voice Talk & Broadcast


In preview interface, right click the device name and the sub menu will pop up.

Click "Start Voice Talking" to talk with the selected device.

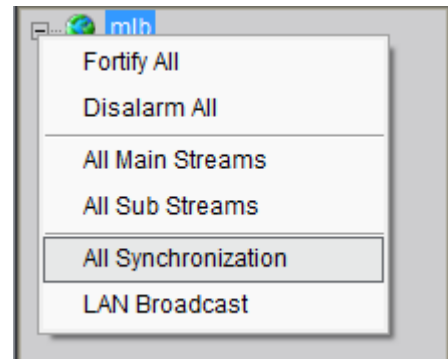


If the device is 9000 DVR, then there will be two voice talk channels for choice.



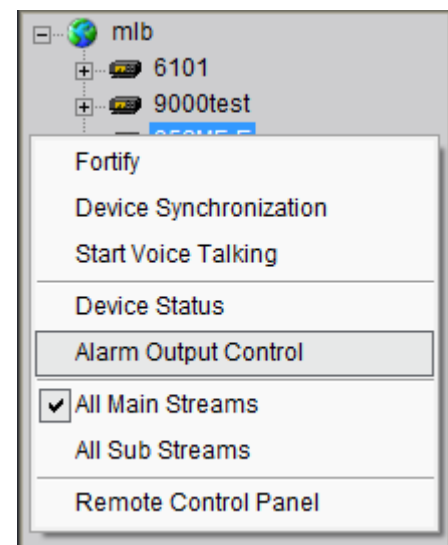
 Note: Client software only supports one voice talk at one time




Right click area name and select “LAN Broadcast” to talk to the area.

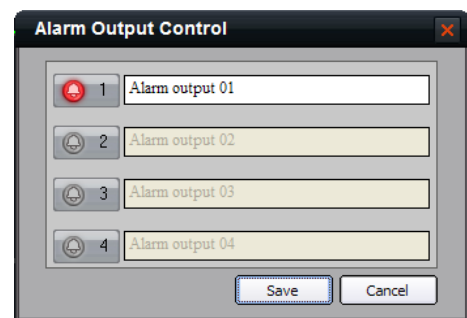


5.7.2 Alarm Output Control

Right click the device name and the sub menu will pop up.
 Select “Alarm Output Control” to turn on or off the alarm output, and define alarm output name.

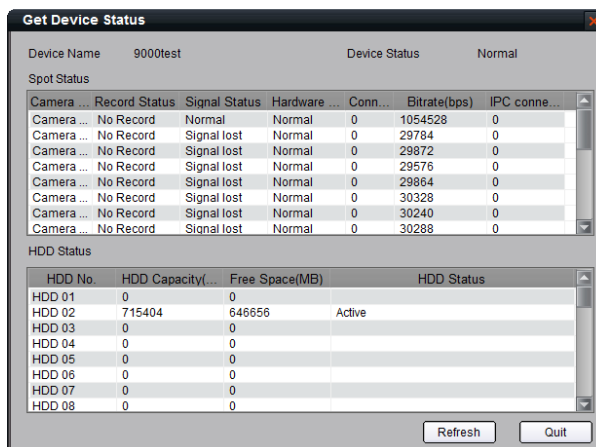
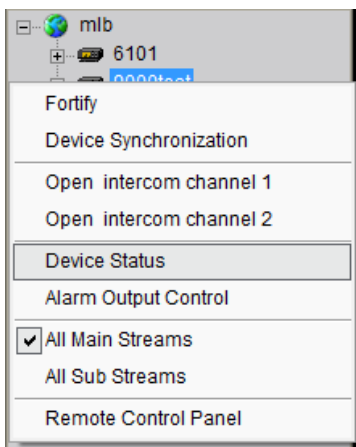


Click  1 and it becomes  1 key, so as to turn on the alarm output and activate the name modified function, re-click  1 key to turn off the alarm output.



5.7.3 Device Status

Right click the device name and the sub menu will pop up. Click “Device Status” to get device working information, including channel and hard disk status.

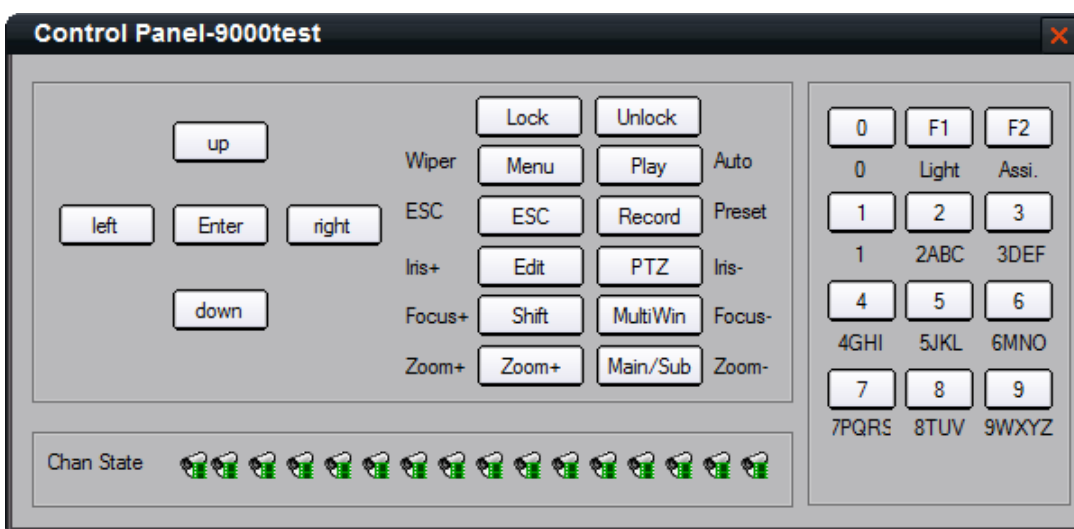
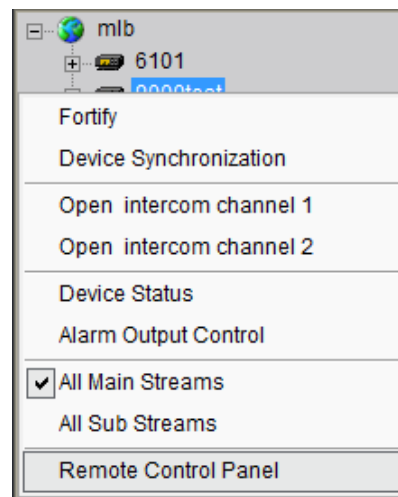


5.7.4 Remote Control Panel

Right click the device name and the sub menu will pop up.

Select "Remote Control Panel" and the control panel will pop up shown as figure below.

You can click the buttons on the panel and control device like using front panel.




Chapter 6 PTZ Control


6.1 RS-485 Parameters Configuration

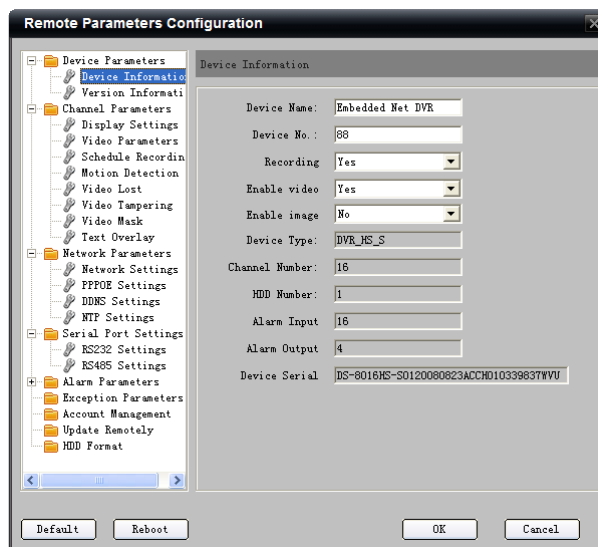
Before PRTZ operations, please make sure that RS-485 parameters has been correctly configured by client software.

Click “Configure” and enter the corresponding interface.

Right click the device name and select “Remote Configuration” from the sub menu.

Click  **Serial Port Settings** to unfold the options, shown as figure on the right.

 **Note:** RS-485 configuration must be the same with PTZ configuration.




6.2 PTZ Control

Return to preview interface and user can control PTZ.

6.2.1 Direction Control









There are 8 keys to control PTZ directions, and the active bar to change PTZ speed, which is adjustable from 1 to 7, and default speed is 4.

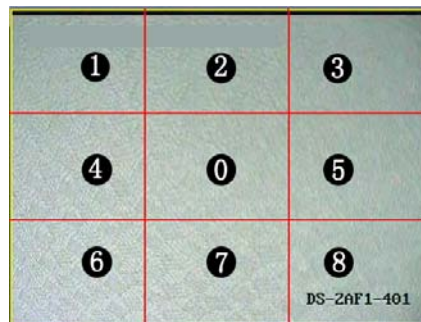
Click  key to start auto scan.


Click the function keys on the right to adjust focus, iris and zoom.




Other PTZ Control Mode – Screen PTZ Control: user can control PTZ by dragging and click in the play window.

Drag Control: There are 3x3 nine areas, when the mouse moves to area 1-8, the mouse icon will become as: ① ; ② ; ③ ; ④ ; ⑤ ; ⑥ ; ⑦ ; ⑧ , and continued to move the mouse along the direction shown by arrows, PTZ will move to the same directions.




 Note: This function is only available for software decode.


6.2.2 Partial Zoom

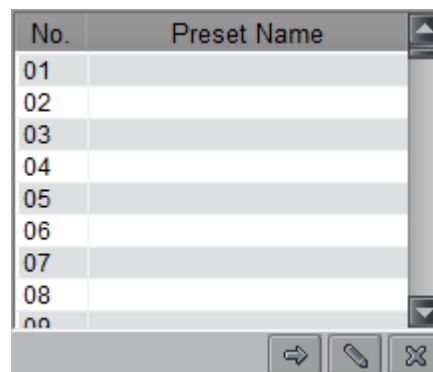
Click “Partial Zoom” to zoom in or out, the mouse icon will become as , press the left key of the mouse and drag a area you want to zoom.


Drag from up left to down right to zoom in; drag from down right to up left to zoom out.

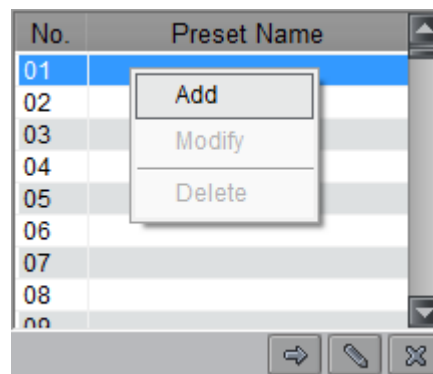
 Note: This function is only available as HIKVISION protocol is selected for PTZ.

6.2.3 Preset


Select one channel and click the  key on the PTZ control panel and enter preset edit window.




Select one play window, and right click the preset list or click  to add, modify and delete preset.



Move the PTZ to the position you want, and click "Add" to input preset name, then click OK to finish.

Then double click preset in list or click  to call it.


Right click preset to modify or delete this preset, click

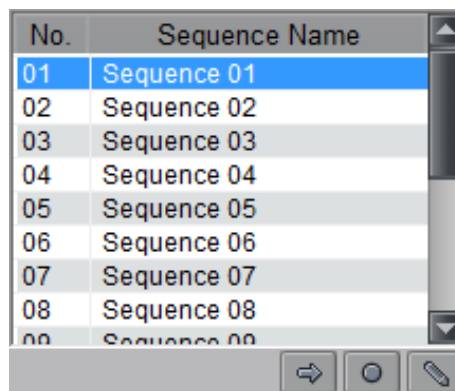
 to delete preset as well.




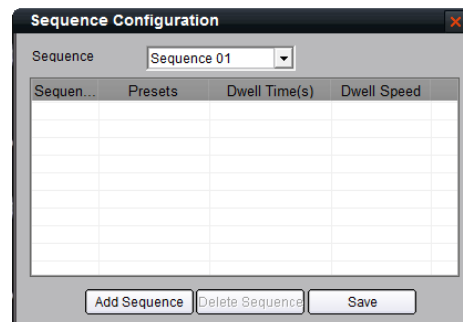
6.2.4 Sequence

After adding two or more presets for one channel, you can set a sequence with presets for PTZ.

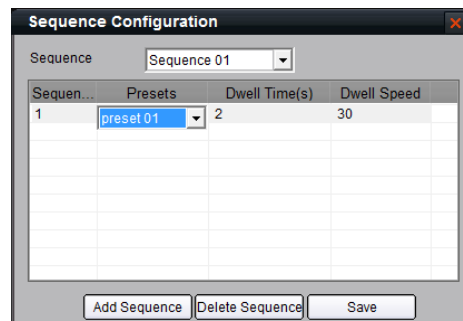
1st step: select one channel and click  key to show sequence list.




2nd step: Click  or right click sequence name then select the preset you would like to enter sequence configure menu.



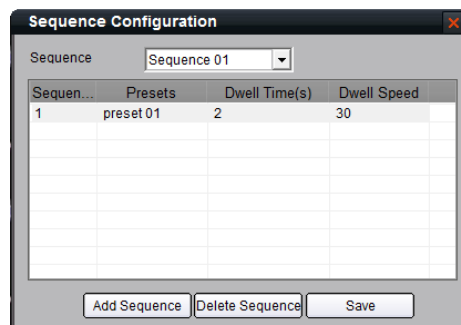
3rd step: Click **Add Sequence** add the sequence, you can also click preset area to select presets from the list.



4th step: Set the time and speed for the preset.

 Note: Dwell time is between 1 and 128s; dwell

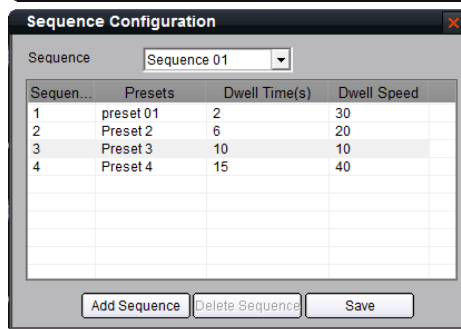
speed is between 1 and 140.




5th step: Repeat the 2nd and 3rd step to add the presets

to the sequence. Then click  key to save

the settings.




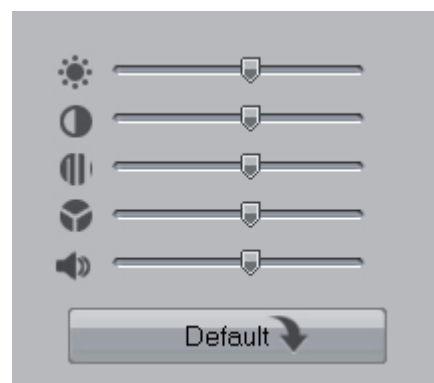
After configuration, you can choose the sequences from the list , and call/stop them







by clicking  and  keys.

6.3 Video Parameters Configuration

Click the  key to show the video parameters configuration menu.

Move  to adjust the video parameters. (Range: 1-10, default value: 6).



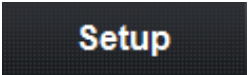
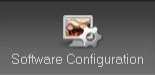
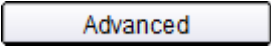
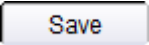
Icon	Description	Icon	Description
	Brightness		Contrast
	Saturation		Hue
	Volume		Restore

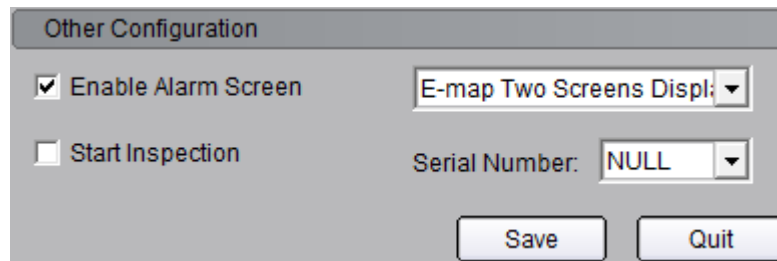
6.4 Keyboard and Joystick Control

The client software supports keyboard (DS-1002KI, DS-1003KI) and joystick control PTZ and preview window layout.

6.4.1 DS-1002KI, DS-1003KI keyboard control PTZ

Connect Ta, Tb of DS-1002KI, DS-1003KI keyboard to Rx+, Rx- of RS-485↔RS-232 converter, then connect converter to COM interface of computer.

Click  →  → , and select keyboard serial ports (NULL by default) in “Other Configuration”. Click  to save parameters

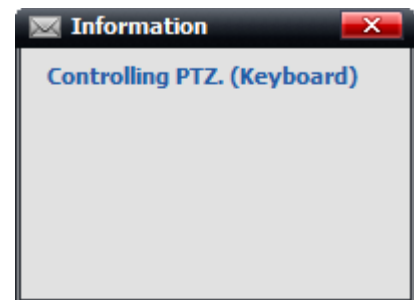


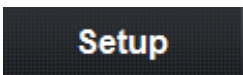
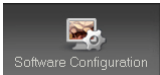
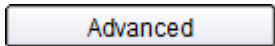
Press “EXIT” button on the keyboard to switch control state. A message “Controlling window layout” will pop up afterwards, and then you can move the green active box by using keyboard joystick.



Press “EXIT” button on the keyboard to switch control state. A message “Controlling PTZ” will pop up afterwards, and then you control PTZ by using joystick.

Press “PTZ control” button on the keyboard to control iris, focus, zoom, wiper, light, and preset calling by using joystick or function buttons.



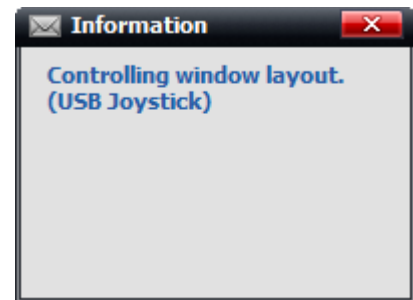
Click  →  → , and select keyboard serial ports as NULL by default to release the serial ports.

6.4.2 Joystick control PTZ

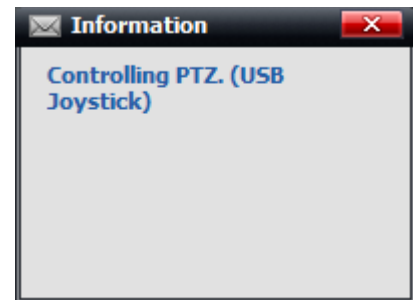
Insert USB joystick, and a message will pop up shown as figure on the right, and define “switch button” afterwards.




Press “switch button”, a message “Controlling window layout” will pop up afterwards, and then you can move the green active box by using USB joystick.



Press “switch button”, a message “Controlling PTZ” will pop up afterwards, and then you control PTZ by using USB joystick.



Press “PTZ control” button on the keyboard to control zoom and preset calling by using USB joystick.

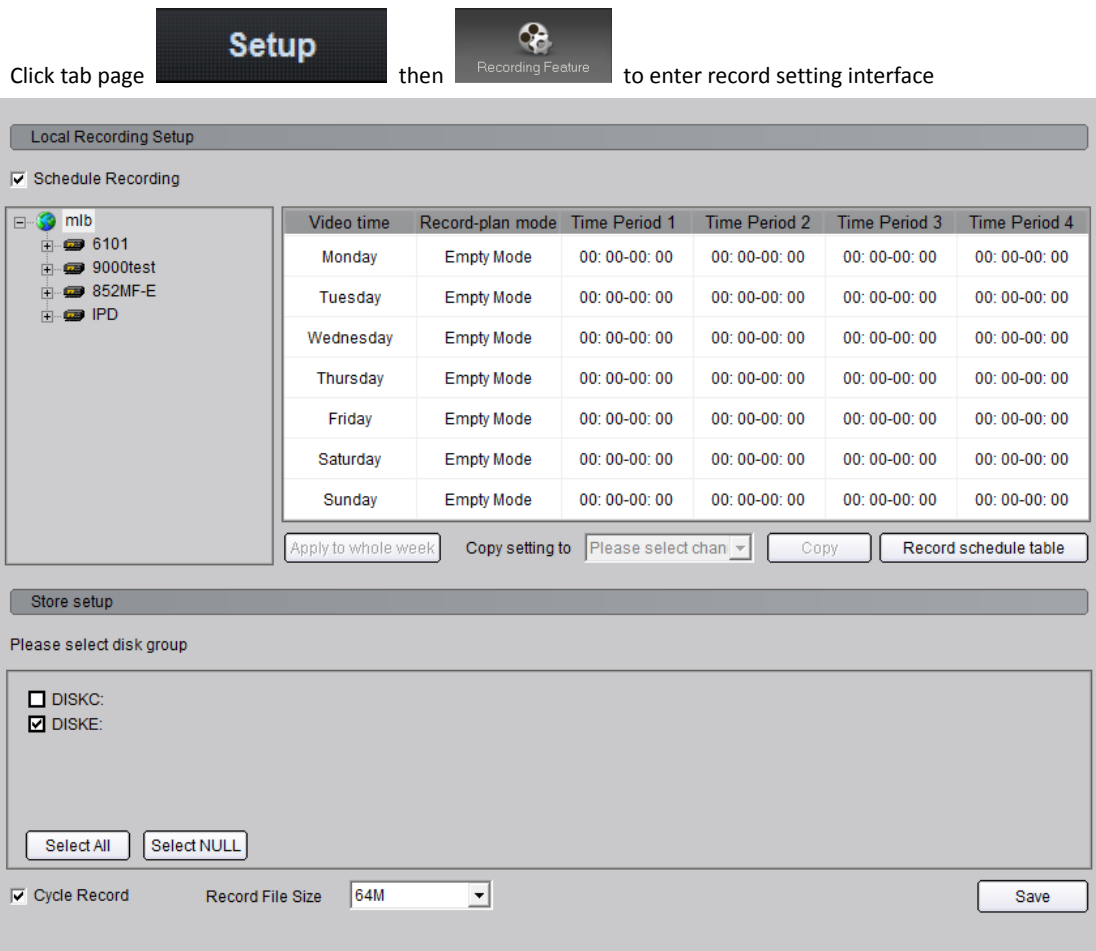
 **Note:** “Switch button” is different according to different models of USB joystick. By default, client software usually defines the last logic button as “Switch button” (e.g. if there are 12 buttons in total, then define the 12nd button as “Switch button”).

Different models of USB joystick have different buttons, which decide the number of callable presets.

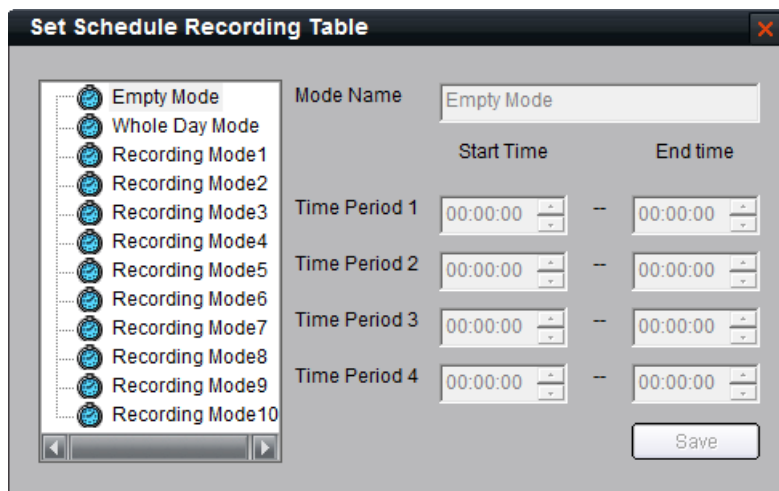
Chapter 7 Recording & Playback

7.1 Recording

7.1.1 Local Recording



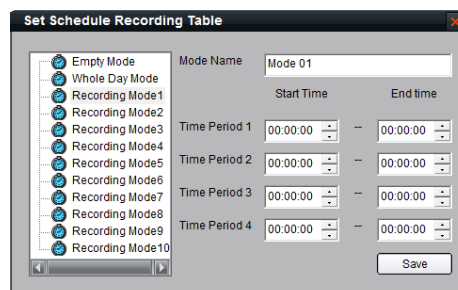
Enable "Schedule Recording" (**Schedule Recording**), and click **Record schedule table** to set the record schedule.



You can choose "Whole Day Recording Mode" or you can define the recording mode for your own demands.

Select Recording Mode, then you can configure the schedule mode.

- 1st step: Input the mode name.
- 2nd step: Set the time periods, and click "Save" to finish.



Set recording schedule:

First click the device or channel name to activate the recording schedule configuration.

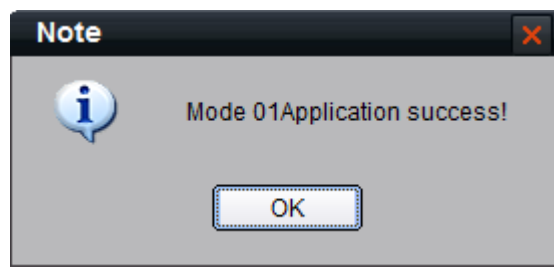


Select the recording date and mode.

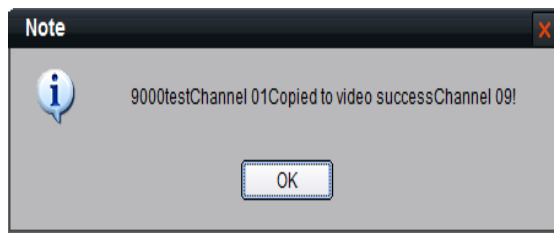
Video time	Record-plan mode	Time Period 1	Time Period 2	Time Period 3	Time Period 4
Monday	Empty Mode	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00
Tuesday	Mode 01	12: 00:23: 00	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00
Wednesday	Empty Mode	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00
Thursday	Whole Day Mode	00: 00:23: 59	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00
Friday	Empty Mode	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00
Saturday	Recording Mode...	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00
Sunday	Empty Mode	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00	00: 00:00: 00

Apply to whole week Copy setting to Please select chan Copy Record schedule table

Select one finished recording mode, and click **Apply to whole week** to copy it to whole week.



Select one channel from list in the device area, and click **Copy** to copy it to other channel selected from the list.



7.1.2 Store Setup

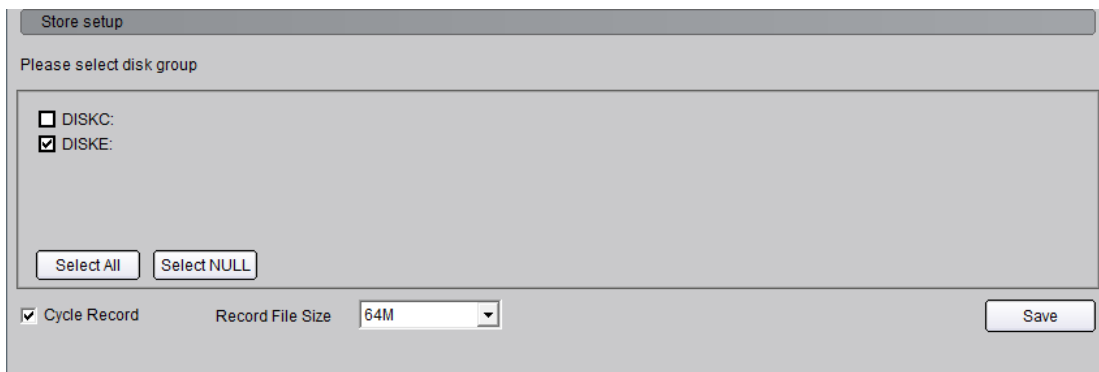
Under "Local Recording Setup" there is "Store Setup" menu.

Choose saving hard disk of the recorded files from disk group.

If "Cycle Record" is selected, and each disk space is less than 2G, the earliest recorded files will be overwritten to continue recording.

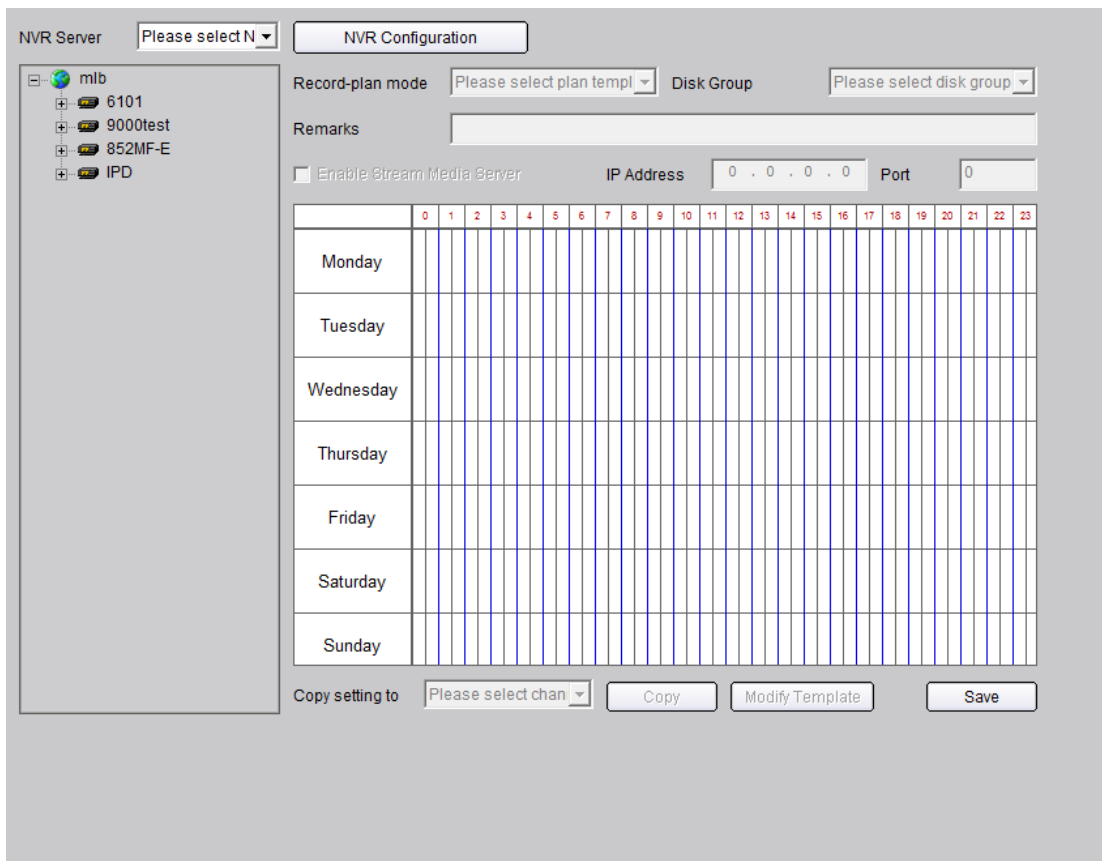
If not, when the disk is full, the "Disk Clean" will pop up, after cleaning disk and if the disk space is larger than 2G, the schedule recording will restart.

Record file size can be selected (32M/64M/128M/256M).




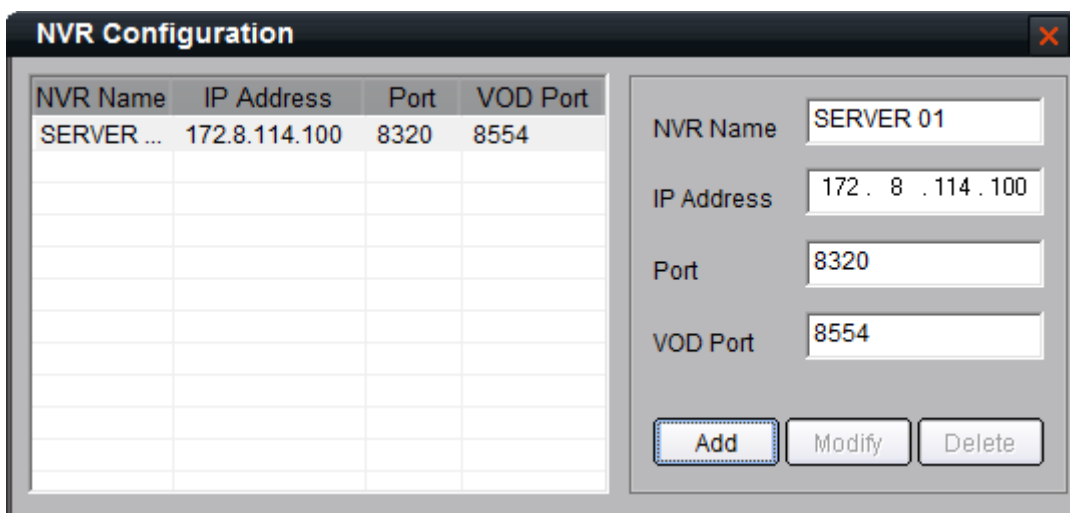
7.1.3 NVR Storage Server Recording Configuration


You can remote configure the recording schedule and playback the recorded files of the NVR storage server through client software, shown as figure below.




7.1.3.1 Add NVR Server

Click  key to enter NVR configuration interface.

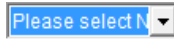


Input the NVR server name, IP address and port, and click  key to finish.

 Note: Max 16 NVR servers can be added to the client software. The default server port and VOD port are 8320 and 8554.

7.1.3.2 NVR Recording Mode Configuration


1st step: Select added NVR servers from

 list to enable modifying recording

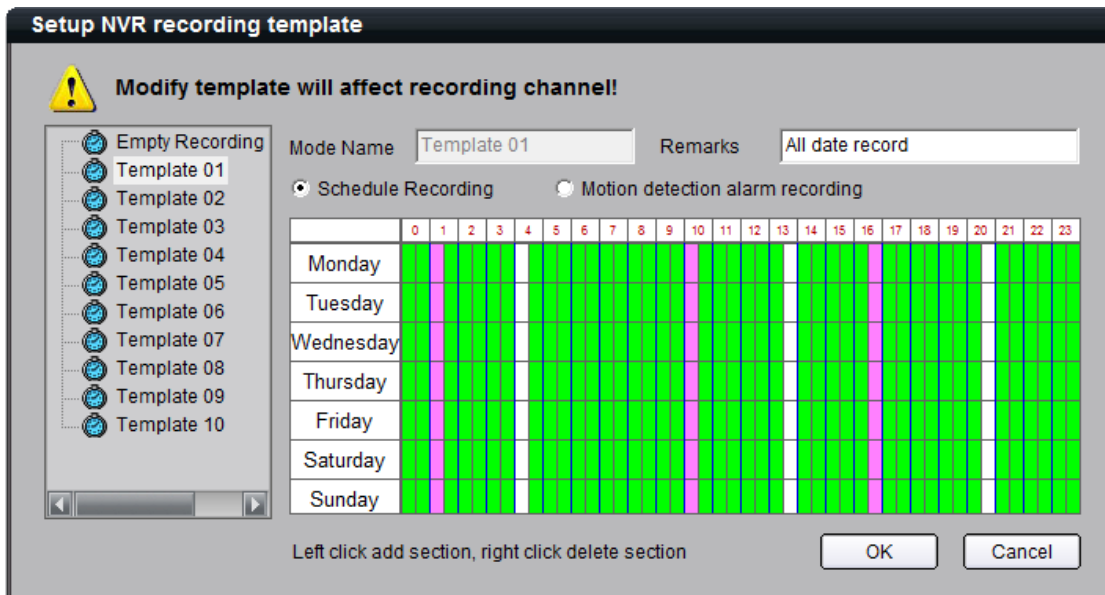
schedule.




2nd step: Set the recording time for the mode.

Click the mouse to add recording schedule; right click to cancel recording schedule. Then click  key to save the settings.

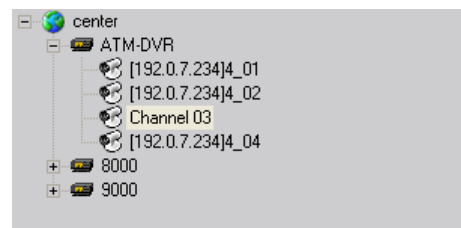
Select "Template 01" and recording type including "Schedule Recording" & "Motion Detection Recording". The using left click to add section, right click to delete section in the date area.



 Note: The unit of recording mode is half an hour, green means schedule recording, pink means motion detection recording, white means no recording.

7.1.3.3 NVR Recording Schedule Configuration

1st step: Select the device or channel for recording



2nd step: If necessary, enable stream media server and input the IP address and port.

Enable Stream Media Server IP Address 172 . 8 . 57 . 3 Port 554

3rd step: Configure the recording schedule.

Select the mode from “Recording plan mode” and select the disk group to save the recorded files.

Click key to finish configuration.

Record-plan mode Template 01 Disk Group Disk Group No. : 01

Remarks All date record

Enable Stream Media Server IP Address 172 . 8 . 57 . 3 Port 554

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Monday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Tuesday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Wednesday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Thursday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Friday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Saturday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Sunday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

Copy setting to Channel 01

7.2 Playback

There are 2 options for playback, one is local playback and the other is remote VOD, which can be chosen by clicking

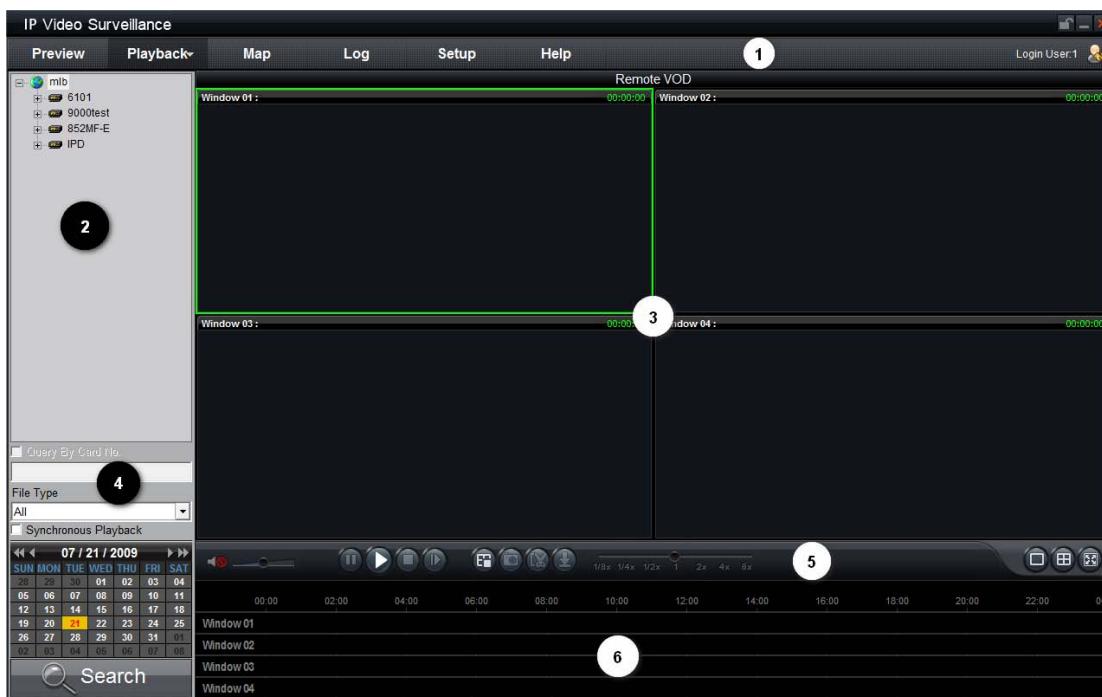
key.

Local Playback: Searching the recorded files from hard disk of PC.

Remote VOD: Searching the recorded files from hard disk of DVR or storage server.

7.2.1 Remote VOD

Click and choose “Remote VOD” (Remote VOD / Local Playback) to enter the playback interface.

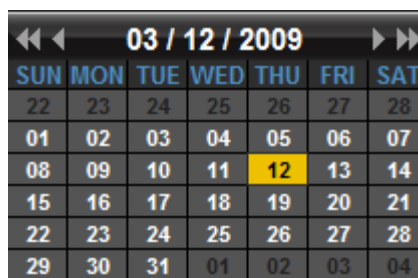
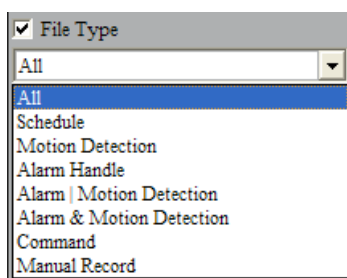


Area	Description	Area	Description
①	System Area	②	Device Area
③	Playback Windows	④	Query Area
⑤	Play Control Buttons	⑥	Time Axis Area

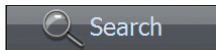
7.2.1.1 Remote VOD Query

1st step: Select the playback channel and window.


2nd step: Select recorded files type and query time.



3rd step: Add information of card number. For ATM DVR enable "Query by Card No." and input the overlaid card number to search. Other device can skip this step.


4th step: Click  key to search the matched recorded files, if there is, then it will shows in the time axis area.



5th step: Click  key to start playback. You can choose time by dragging mouse to the time you want on the time axis.

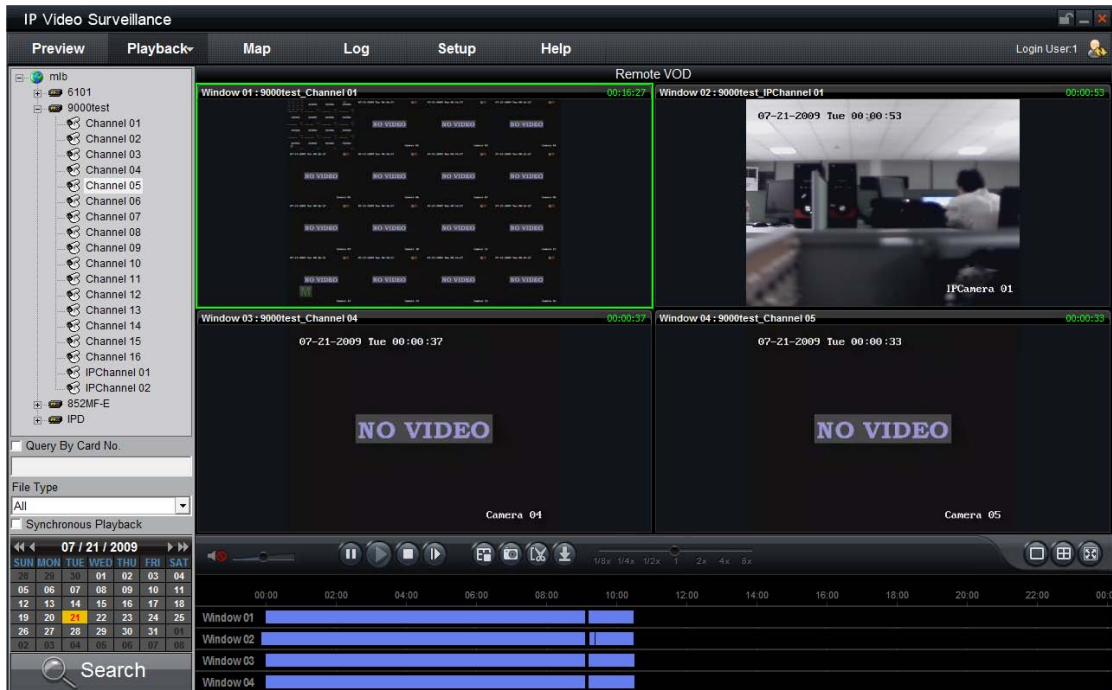


Select one channel then drag into playback window. If there is recorded file in this day, it will playback it from the very beginning of this day.



 If you enable synchronous playback, then the 4 windows will playback synchronously. If the start time of the 4 windows is not same, the most ahead window will wait for other windows until they reach the same time point.

7.2.1.2 Playback Control

When playback has succeeded, the play window will show as below:



Descriptions on playback buttons:

Button	Description	Button	Description
	Open/Close Sound		Capture

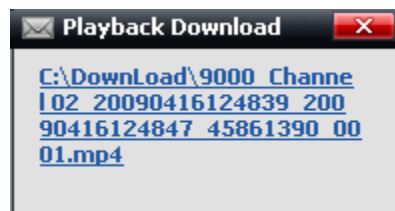
	Pause		Video Clip
	Play		Download
	Stop		Single window
	Play by single frame		4 Screen Division
	Stop All		Full Screen
		Play Speed Adjust Bar	

Note:

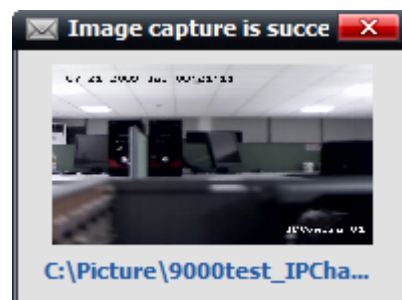
In the single frame playback mode, every time you click button, the recorded files will play forward by one frame.

Only one window audio can be opened at the same time when in VOD mode. If the audio of next window opens then the audio of previous window will be closed.

During playback, click once to set begin time of video clip, click it again to set end time of video clip. After saving the video clip, a message will be raised, click it to open video segment.



You can also get the remote capture by clicking button, and you will see the pop up message. Click the picture to open the capture and click the path to open the capture folder.

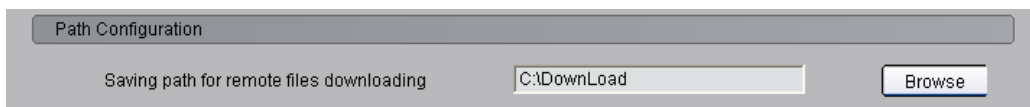


After searching out the recorded file, you can click to download file to local PC. You may click on message to open the download saving directory.

ID	Start Time	End Time	Status
<input type="checkbox"/> 1	2009-04-16 07:34:08	2009-04-16 07:53:30	Wait
<input type="checkbox"/> 2	2009-04-16 07:53:30	2009-04-16 08:12:57	Wait
<input type="checkbox"/> 3	2009-04-16 08:12:57	2009-04-16 08:32:26	Wait
<input type="checkbox"/> 4	2009-04-16 08:32:26	2009-04-16 08:51:53	Wait
<input type="checkbox"/> 5	2009-04-16 08:51:53	2009-04-16 09:11:21	Wait
<input type="checkbox"/> 6	2009-04-16 09:11:21	2009-04-16 09:30:50	Wait
<input type="checkbox"/> 7	2009-04-16 09:30:50	2009-04-16 09:50:17	Wait
<input type="checkbox"/> 8	2009-04-16 09:50:17	2009-04-16 10:09:45	Wait
<input type="checkbox"/> 9	2009-04-16 10:09:45	2009-04-16 10:29:13	Wait
<input type="checkbox"/> 10	2009-04-16 10:29:13	2009-04-16 10:32:53	Wait
<input type="checkbox"/> 11	2009-04-16 10:34:21	2009-04-16 10:50:04	Wait
<input type="checkbox"/> 12	2009-04-16 10:50:04	2009-04-16 11:04:32	Wait
<input type="checkbox"/> 13	2009-04-16 11:05:52	2009-04-16 11:10:48	Wait
<input type="checkbox"/> 14	2009-04-16 11:10:48	2009-04-16 11:14:32	Wait
<input type="checkbox"/> 15	2009-04-16 11:15:52	2009-04-16 11:31:30	Wait
<input type="checkbox"/> 16	2009-04-16 11:31:30	2009-04-16 11:50:59	Wait
<input type="checkbox"/> 17	2009-04-16 11:50:59	2009-04-16 12:10:26	Wait
<input type="checkbox"/> 18	2009-04-16 12:10:26	2009-04-16 12:29:55	Wait
<input type="checkbox"/> 19	2009-04-16 12:29:55	2009-04-16 12:49:23	Wait

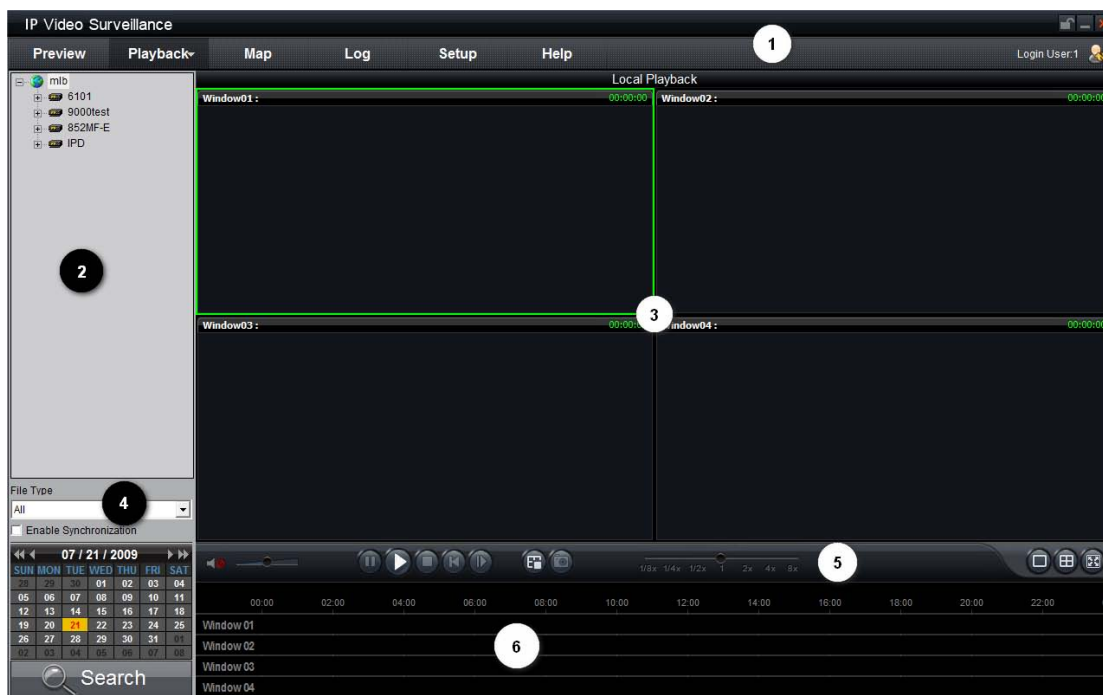
Buttons: Start download, Stop Download, Quit

You may go to “Configure” → “Software Configure” → “Path configuration” to change the saving directory.



7.2.2 Local Playback

Click **Playback** and choose “Local Playback” (Remote VOD Local Playback) to enter the playback interface.

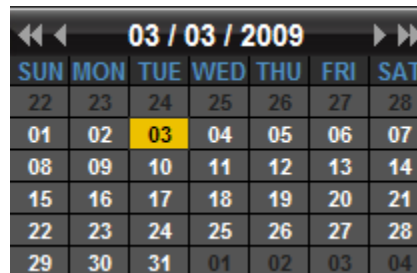


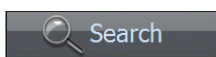
Area	Description	Area	Description
①	System Area	②	Device Area
③	Playback Windows	④	Query Area
⑤	Play Control Buttons	⑥	Time line Area

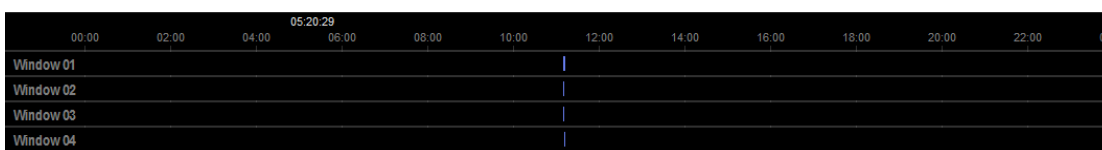
7.2.2.1 Local Playback Query


1st step: Select the playback channel and window.

2nd step: Select recorded files type and query time.



3rd step: Click  key to search the matched recorded files, if there is, then it will shows in the time axis area.

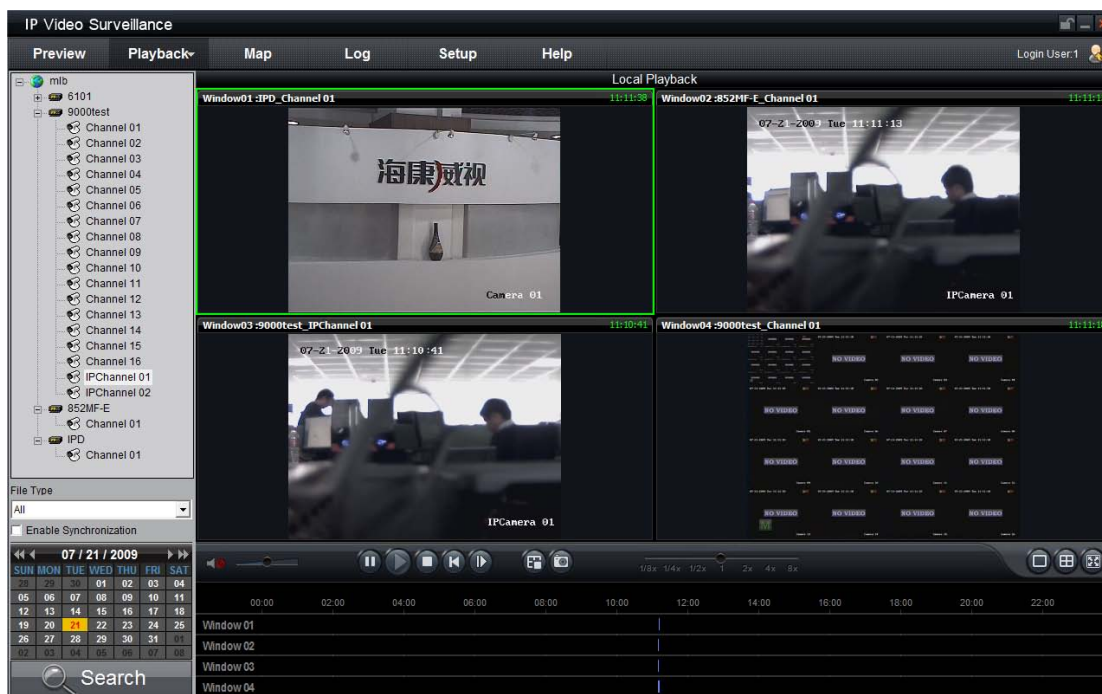


4th step: Click  key to start playback. You can choose time by dragging mouse to the time you want on the time axis.

Select one channel then drag into playback window. If there is recorded file in this day, software will playback it from the very beginning of this day.













7.2.2.2 Playback Control


When playback has succeeded, the play window will show as below:

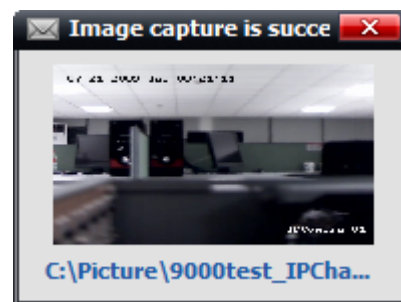


Descriptions on playback buttons:


Button	Description	Button	Description
--------	-------------	--------	-------------

	Open/Close Sound		Stop All
	Pause		Capture
	Play		Single Screen
	Stop		4 Screen Division
	Play by single frame		Full Screen
	Return to Beginning		
		Play Speed Adjust Bar	

You can also get the remote capture by clicking  button, and you will see the pop up message. Click the picture to open the capture and click the path to open the capture folder.



 Note:

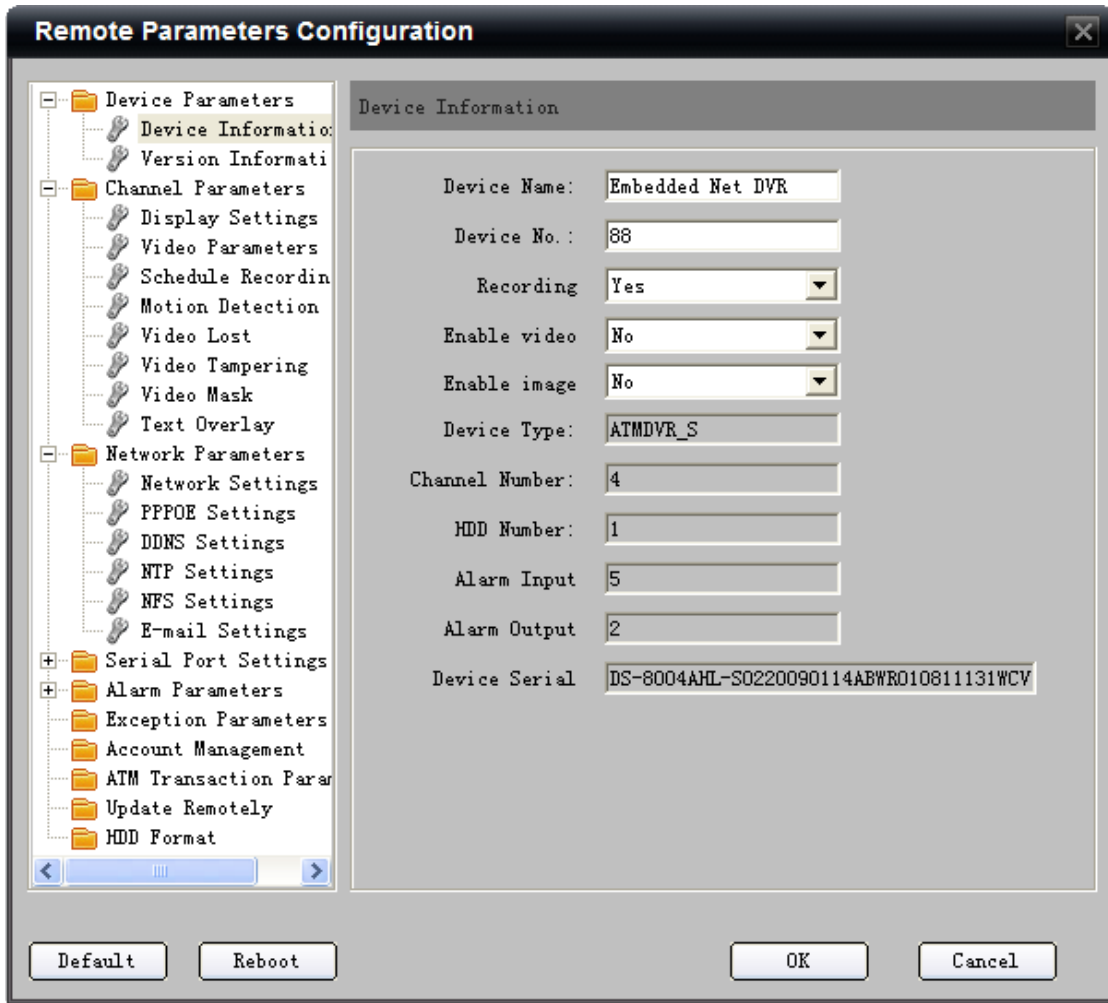
In the single frame playback mode, every time you click  button, the recorded files will play forward by one frame.

Only one window audio can be opened at the same time when in VOD mode. If the audio of next window opens then the audio of previous window will be closed.

Chapter 8 Remote Configuration

You can remote configure the parameters of the device, including recording schedule, alarm schedule and etc.

Path: **Setup** → **Device Management** → Right click the device and select "Remote Configuration"



If the device is 9000 series DVR, after clicking the "Remote Configuration" then you need to click



Remote parameters configuration key in the pop-up menu and enter the configuration interface.




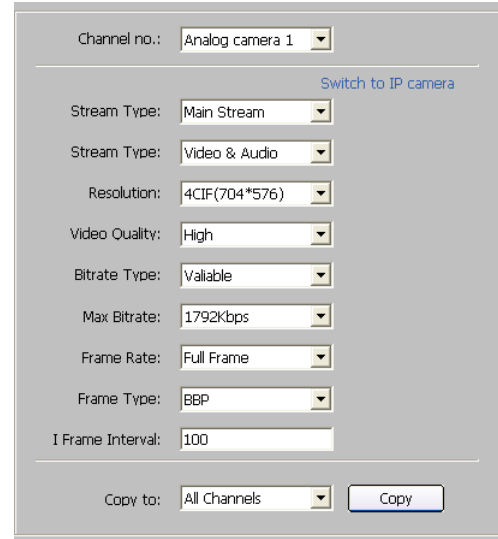
Note: Remote configuration of PC DVR via client software is not available right now.

8.1 Remote Recording Configuration

8.1.1 Encoding Parameters Configuration

Select  Channel Parameters →  Video Parameters to enter encoding parameters configuration interface.

 Note: If the device is 9000 series, click “Switch to IP Channel” and select IP channel to configure the parameters of IP camera.

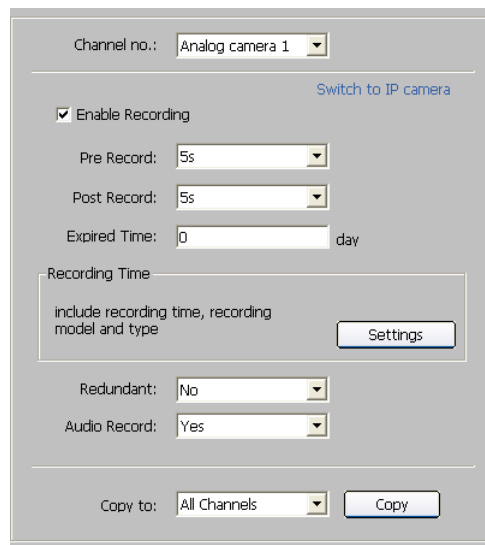


Parameters	Description
Dual Stream	Main/Sub stream and Event Parameters
Stream Type	Video&Audio or Video stream
Resolution	Recording Resolution
Bit Rate Type	Variable & Constant
Max Bit rate	Maximum bit rate of the compressed stream
Frame Rate	Record frame rate, from 1/16 to full frame
Frame Type	BBP,BP & Single P frame
I frame interval	The interval between 2 I frames

8.1.2 Schedule Recording

Select Channel Parameters → Schedule Recording to enter configuration interface.

Enable recording by clicking the tick .



Note: “Recording Expired” “Redundant” and “Audio Record” are only available for 9000 series DVR.

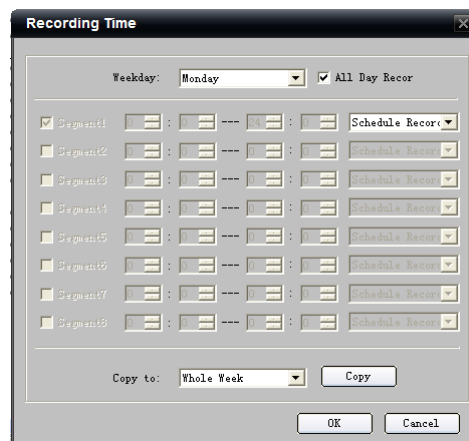
Parameters	Description
Redundant	Redundant for this channel or not (When redundant disk is available)
Recording Expired	Storage life of recorded files in redundant disk, expired data will be deleted
Audio Record	Recorded files include audio or not

Click “Settings” of the “Recording Time” to enter recording schedule configuration interface.

Select “Weekday” as some day of the week or the whole week for recording time.

Click for the recording type. The “All Day Record” or 8 “Segments” can be selected as well.

Note: The time of each segment can not be overlapped.

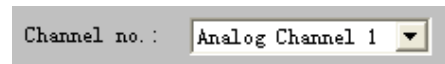


8.1.3 Motion Detection Recording

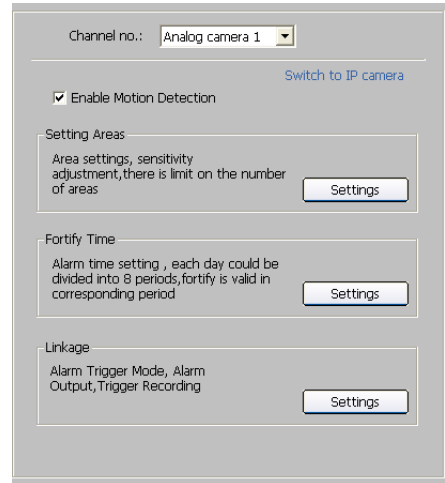
Click Motion Detection to enter motion detection recording interface.

Note: If the device is 9000 series, click “Switch to IP Channel” and select IP channel to configure the parameters of IP camera.

1st step: Select channel number for motion detection.

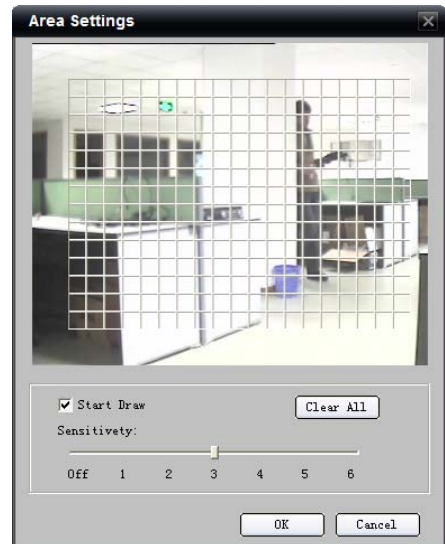


2nd step: Enable motion detection to activate “Setting Area”, “Fortify Time” and “Linkage” settings.

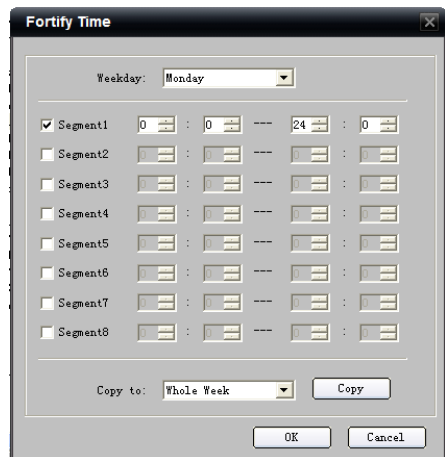


3rd step: Set the motion detection area and sensitivity. The sensitivity 1 and 6 are the lowest and the highest level.

Enable “Start Draw”, and select the detection area by using mouse.

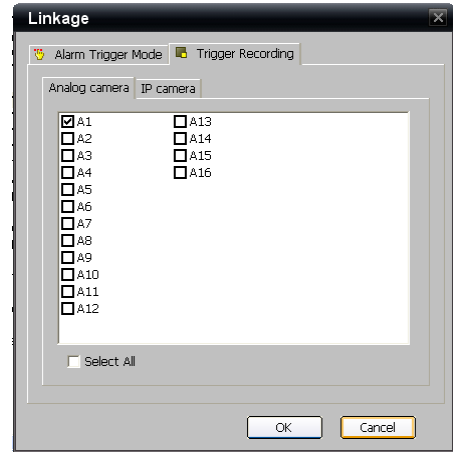


4th step: Set the detection time. “Fortify Time” can be one day or the whole week, and 8 segments for one day.



5th step: Set the “Trigger Recording” for linkage.


Click “Setting” in the linkage area and select “Trigger Recording” tab.

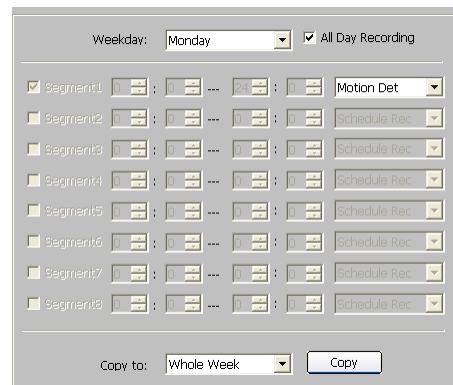


6th step: Set the detection recording time.


Select “Weekday” as some day of the week or the whole week for recording time.

Click **Motion Detecti** for the recording type. The “All Day Record” or 8 “Segments” can be selected as well.


 Note: The time of each segment can not be overlapped. The valid time is the intersection of the motion detection time and motion detection recording time.



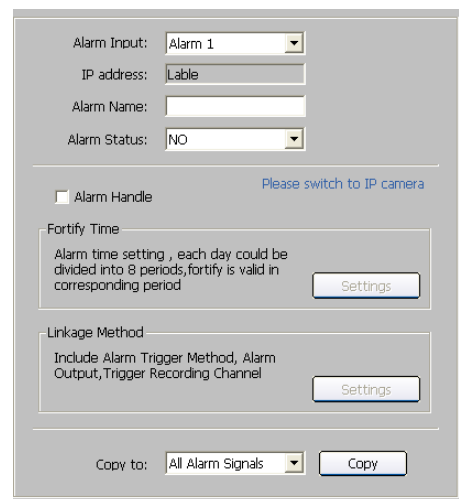
8.1.4 Alarm Recording

Select  Alarm Parameters → **Alarm Input Settings**


1st step: Select alarm input.

 Note: If the device is 9000 series DVR, you can click

“Switch to IP channel” to configure the alarm input of IP channel.



2nd step: Select the type of alarm input, “NO” or “NC”.

 Note: The settings will become effective after rebooting.


3rd step: Enable “Alarm Handle” to activate “Fortify Time” & “Linkage Method”.

4th step: Set the fortify time for alarm input.

Click “Settings” in “Fortify Time” menu.

Select “Weekday” as some day of the week or the whole week for recording time.

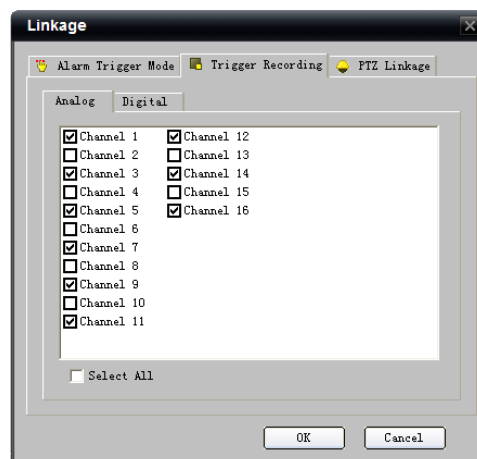
The “All Day Record” or 8 “Segments” can be selected as well.

 Note: The time of each segment can not be overlapped.

5th step: Set recording channel triggered by alarm.

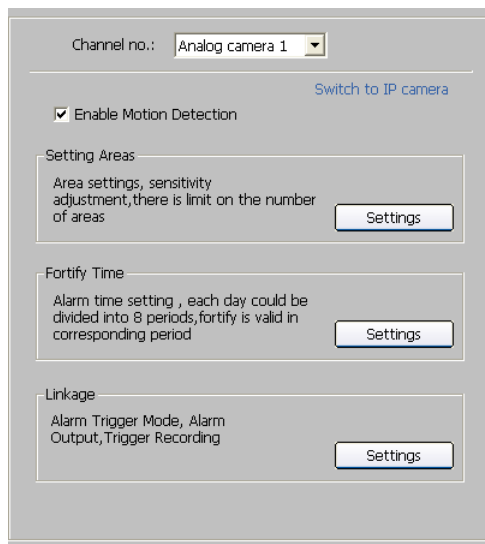
Click “Settings” in “Linkage” menu and select “Trigger Recording” tab.

Enable the recording channels you want.



6th step: Enter schedule recording interface. Click

Enable Recording to enable Recording.




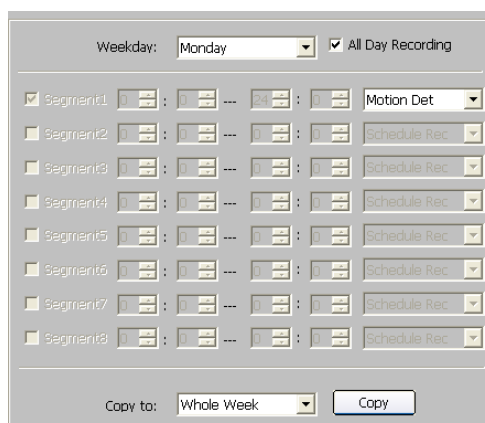
7th step: Set the recording time for alarm input.

Click “Settings” in “Recording Time” menu.

Select “Weekday” as some day of the week or the whole week for recording time.

The “All Day Record” or 8 “Segments” can be selected as well.

 Note: The time of each segment can not be overlapped.



8.1.5 Other Recording Modes

Other Recording Modes are including “Motion detection & Alarm”, “Motion detection | Alarm”.

“&” means recording is triggered when two situations happened together;

“|” means recording is triggered when one of the situations happened.

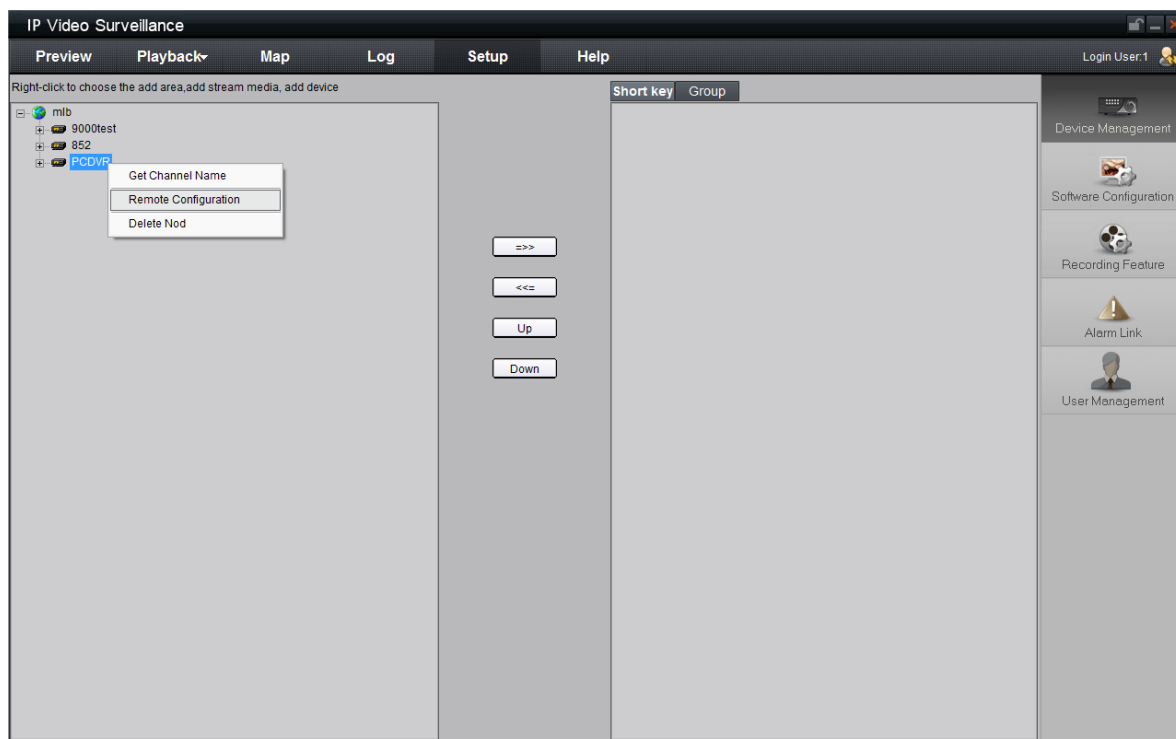
The configurations are the same with “Motion detection recording” or “Alarm recording”.

8.1.6 PCDVR Remote Configuration

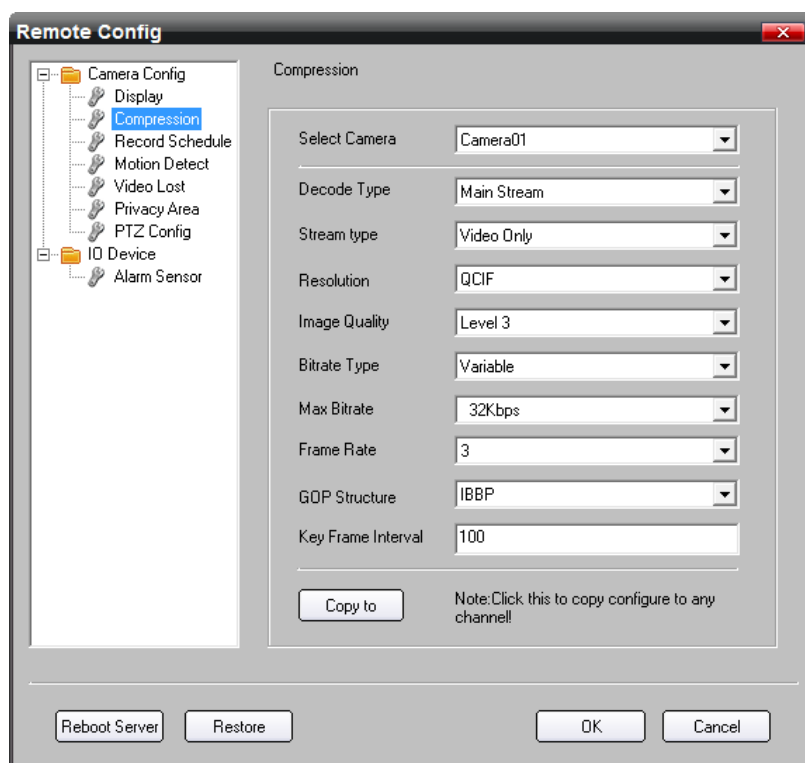
In this version of client software, the PCDVR can be added and configured remotely.

Please refer to [4.1.1 Add Device](#) for details on adding PCDVR.

After PCDVR added in client software, you can right click the device name and select “Remote Configuration”.



Remote Configuration contains two parts: Camera Configuration and IO Device.



8.1.6.1 Camera Configuration

Camera Configuration contains 7 parts: Compression, Display, Record Schedule, Motion Detect, Video Lost, Privacy Area and PTZ Configuration.

1. Compression

[Select Camera] Select a camera.

[Decode Type] The type of decode.

Decode Type contains two types: Main Stream and Sub Stream.

a. Main Stream

Main Stream parameters contain: Stream Type, Resolution, Image Quality, Bit rate Type, Max Bit rate, Frame Rate, GOP Structure, Key Frame Interval.

[Stream Type] setup the stream type;

[Resolution] setup the resolution. It can setup the resolution dynamically while recording;

[Image Quality] setup the image quality;

[Bit rate Type] setup the bit rate type. VBR: variable bit rate; CBR: constant bit rate;

[Max Bit rate] the maximum bit rate;

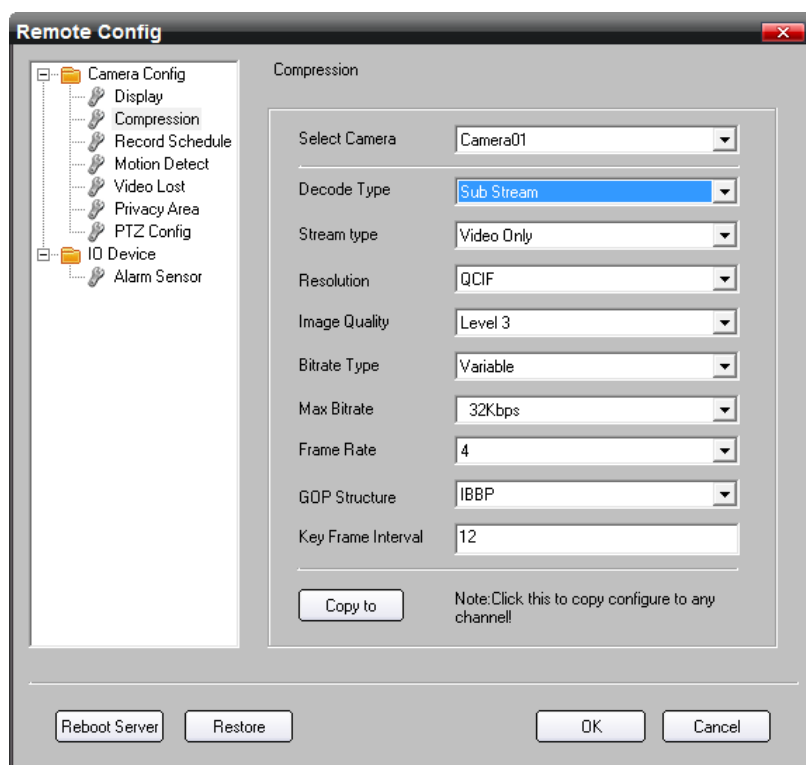
[Frame Rate] setup the frame rate;

[GOP Structure] setup frame group mode;

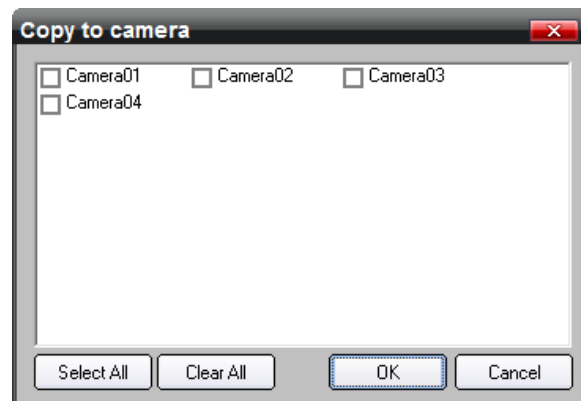
[Key Frame Interval] setup the interval of I frame. This parameter will affect the image quality.

b. Sub Stream

Sub Stream contain: Image Quality, Bit rate Type, Max Bit rate, Frame Rate, Key Frame Interval, shown as figure below.

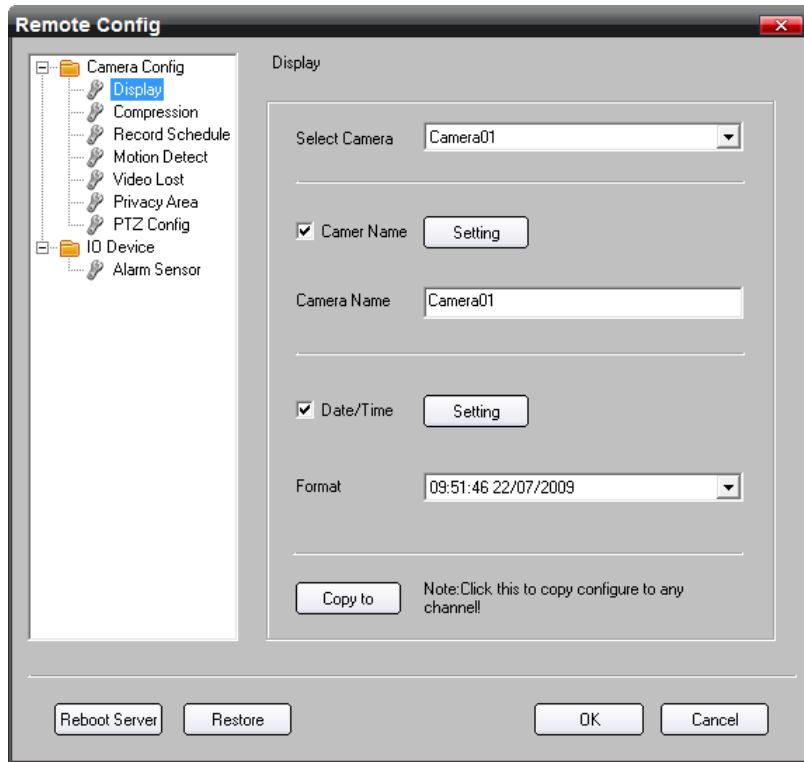


Press **[Copy to]** to copy **Compression** parameters to any camera that you selected.



2. Display

Display setup contains Camera Name and Date/Time setup.



[Select Camera] Select a camera.

a. Camera Name setup

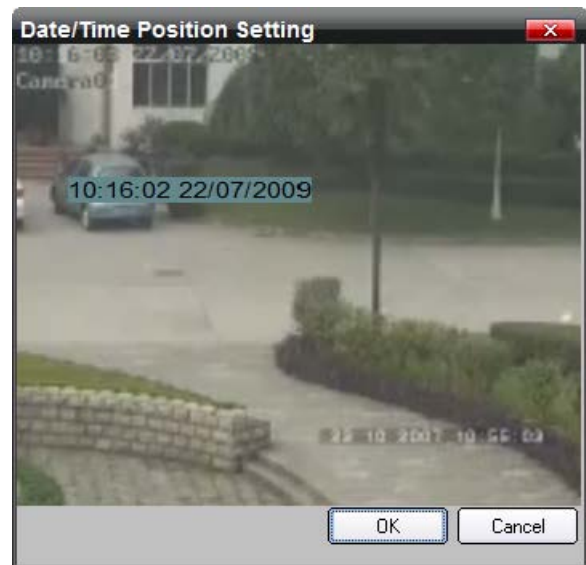
Setting the camera name and its position: Select the [Camera Name] check box, input the name directly and press [Setting] to enter the setup window. Drag and drop the icon **Camera01** to change its position.



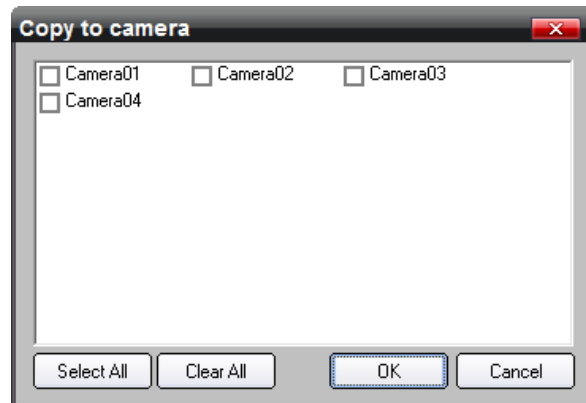
b. Date/Time setup

Setting the Date/Time format and position:

Select the **[Date/Time]** check box, select a format and press **[Setting]** to enter the setup window. Drag and drop the icon **09:54:59 22/07/2009** to change its position.



Press **[Copy to]** to copy **Display** parameters (but containing no **Camera Name**) to any camera that you selected.

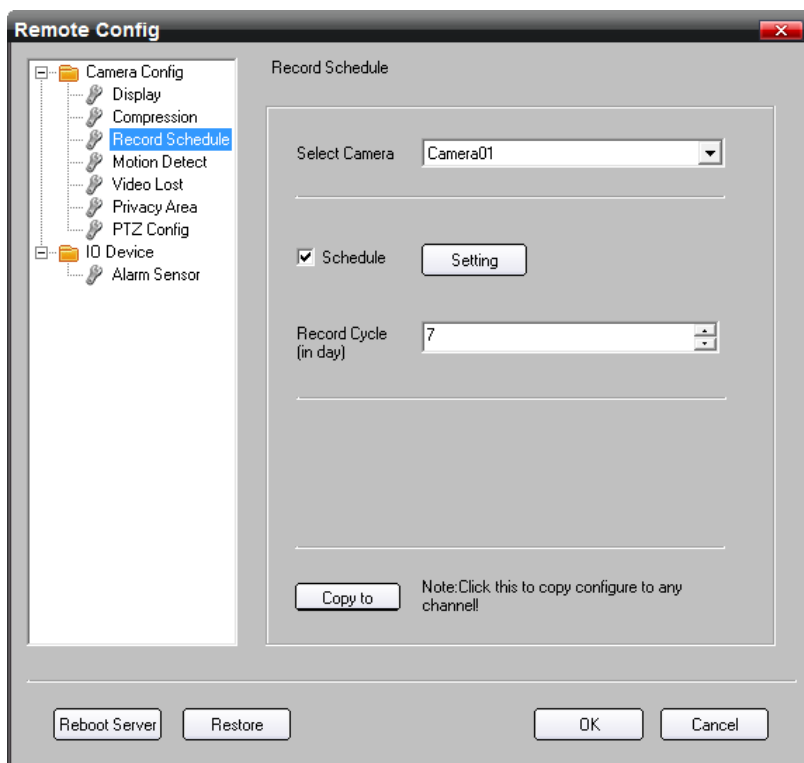


3. Recode Schedule

[Select Camera] Select a camera.

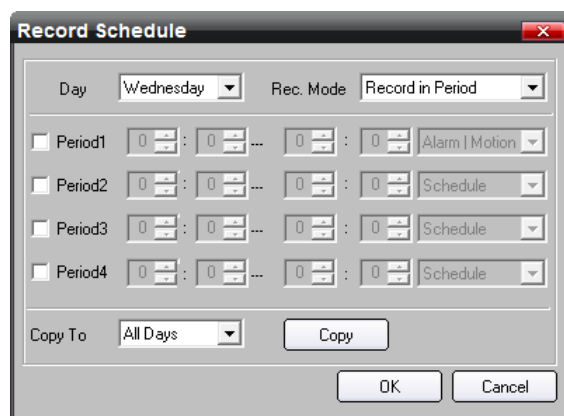
Select the **[Schedule]** check box to set Recode Schedule.

[Record Cycle (in day)] The recordings reserving time



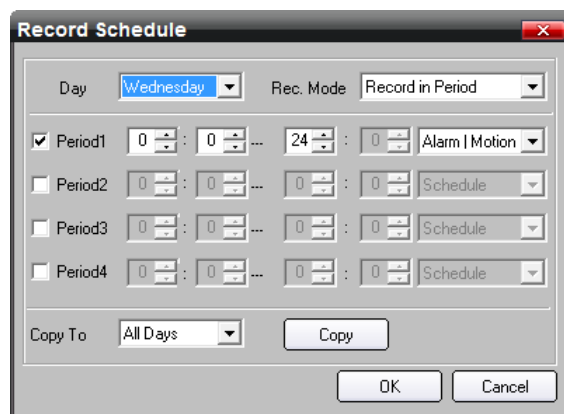
Press **[Setting]** to set the time of record

[Day] select one day, **[Rec. Mode]** support **[Record All Day]** and **[Record in Period]**, if you select **[Record All Day]**, the record period will not need to be configured.

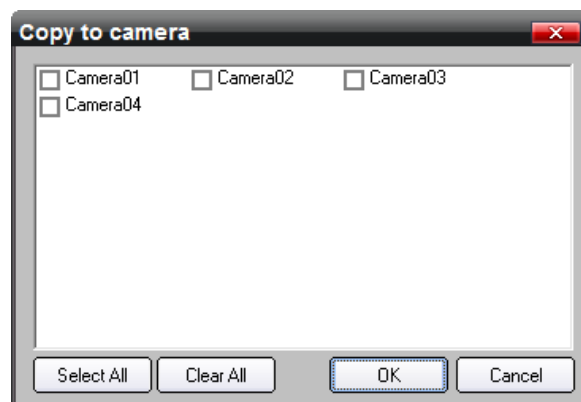


Otherwise, the record period needs to be configured:

[Period x] section time of recording. It can be set in **[Record in Period]** mode only; **[Copy to]** copy the parameters to other days; In **[Rec. mode]**, if **[Record all day]** is enabled, the record mode is **[Schedule]** by default; if **[Record in Period]** is enabled, the record mode can be **[Schedule]**, **[Alarm | Motion]**, and **[Schedule]** record.

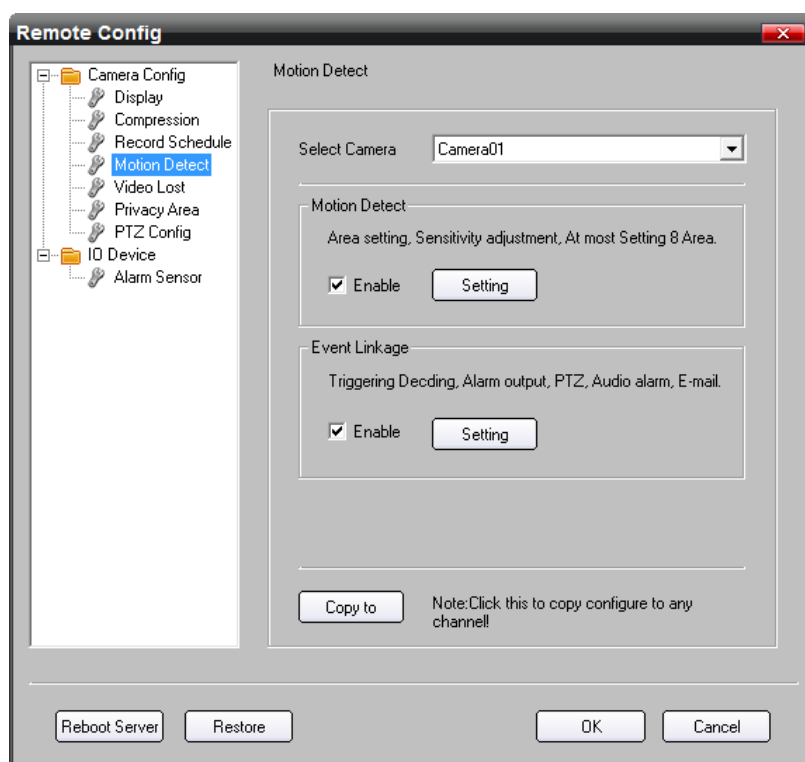


Press **[Copy to]** to copy **Recode Schedule** parameters to any camera that you selected.







4. Motion Detect

[Select Camera] Select a camera.



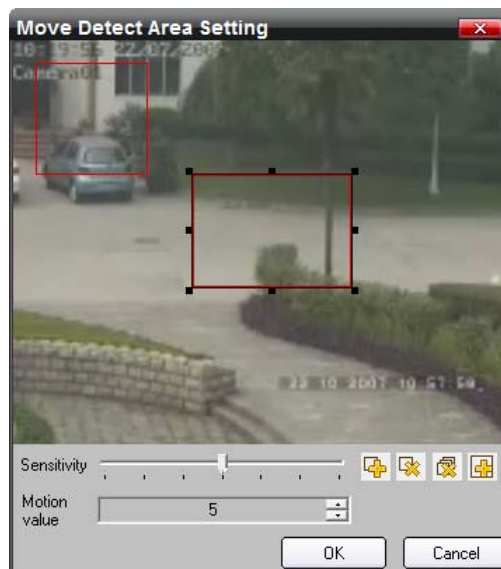
a. Motion Detect

Select the **[Enable]** check box and press **[Setting]** to set areas.

Press  to add motion detection area,  to delete the selected area,  to delete all areas, and  to set the whole image as motion detection area.

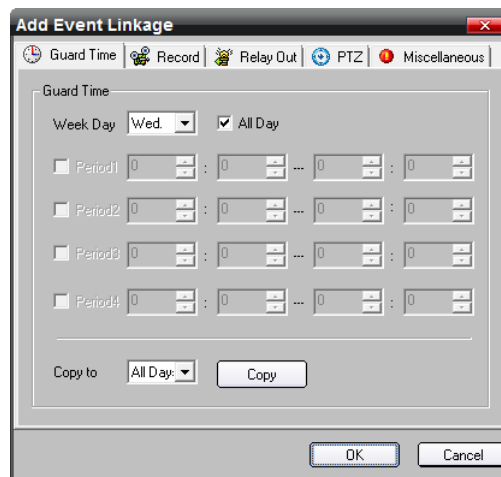
[Sensitivity] Sensitivity of motion detection, which has 7 grades 0-6.

[Motion value] The percent of motion areas in selected area, it is variable from 1 to 100.

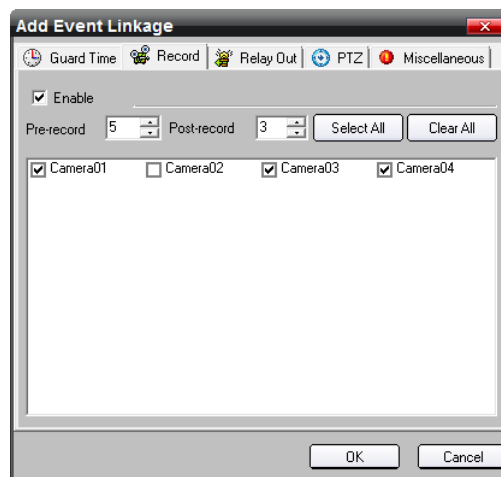


b. Event Linkage

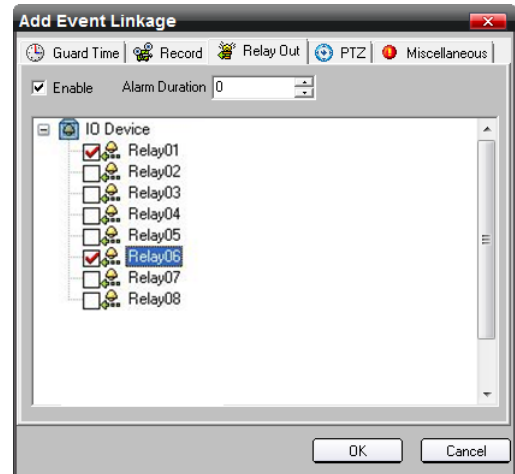
Guard Time: Users can configure guard time as all day or 4 periods.



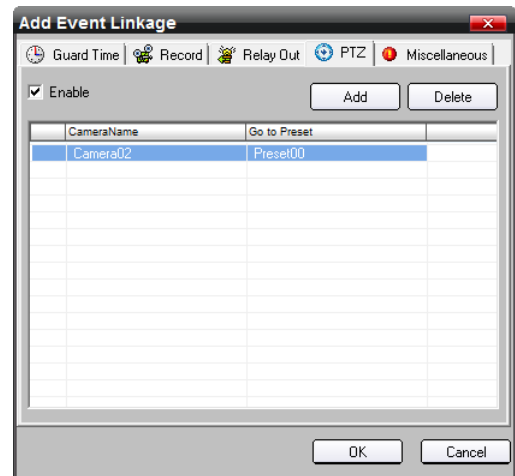
Trigger Record: Select the **[Enable]** check box, then set the **[Pre-record]** time and **[Post-record]** time, select the camera to record.



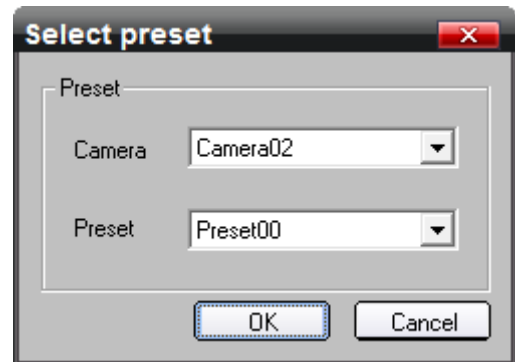
Firstly, select the **[Enable]** check box, secondly, set the **[Alarm Duration]** and select the relay port.



PTZ: Firstly, select the **[Enable]** check box.

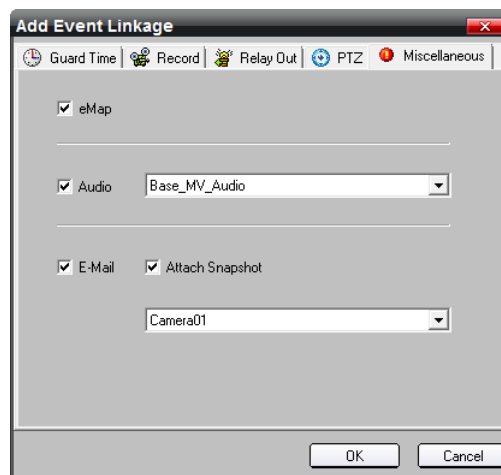


Secondly, set the **Calling Preset** by clicking the **[Add]** button.

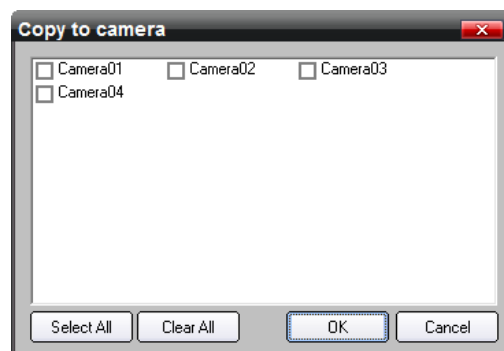


Miscellaneous: Select the **[e-Map]** check box to trigger e-Map, **[Audio]** and an audio file to trigger audio alarm, and **[E-mail]** to trigger Email.

In the setup of triggering Email, if users want to send Email with snapshots, users should select the **[Attach Snapshot]** check box and the camera.

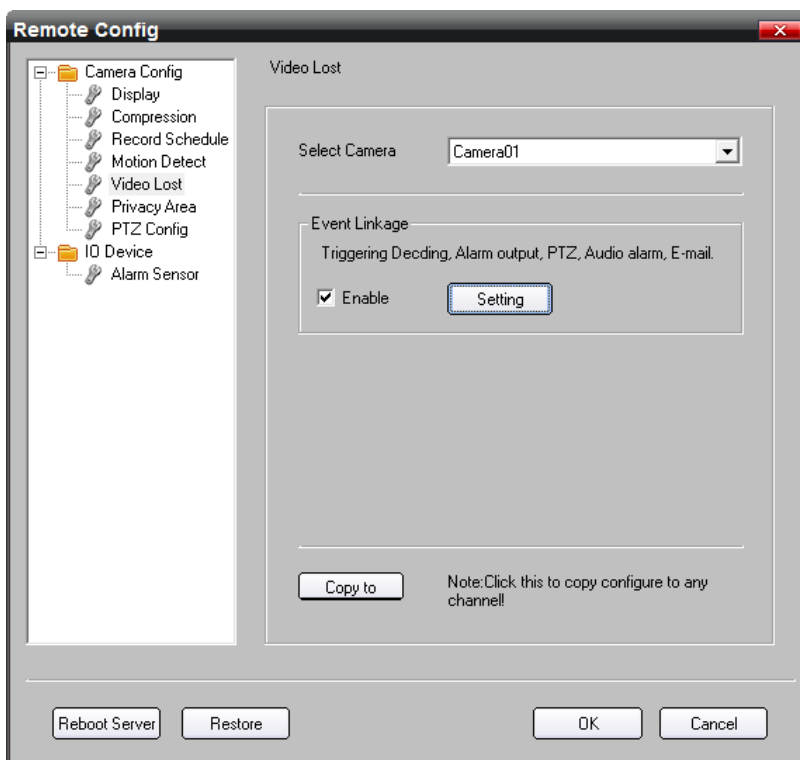


Press **[Copy to]** to copy **Motion Detect** parameters to any camera that you selected.

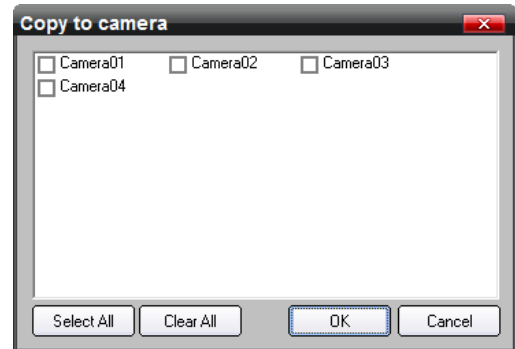


5. Video Lost

[Select Camera] Select a camera. If Users want to set the event linkage of **Video Lost**, users should select the **[Enable]** check box and **press [Setting]**. The event linkage of **Video Lost** is the same with Motion Detect.



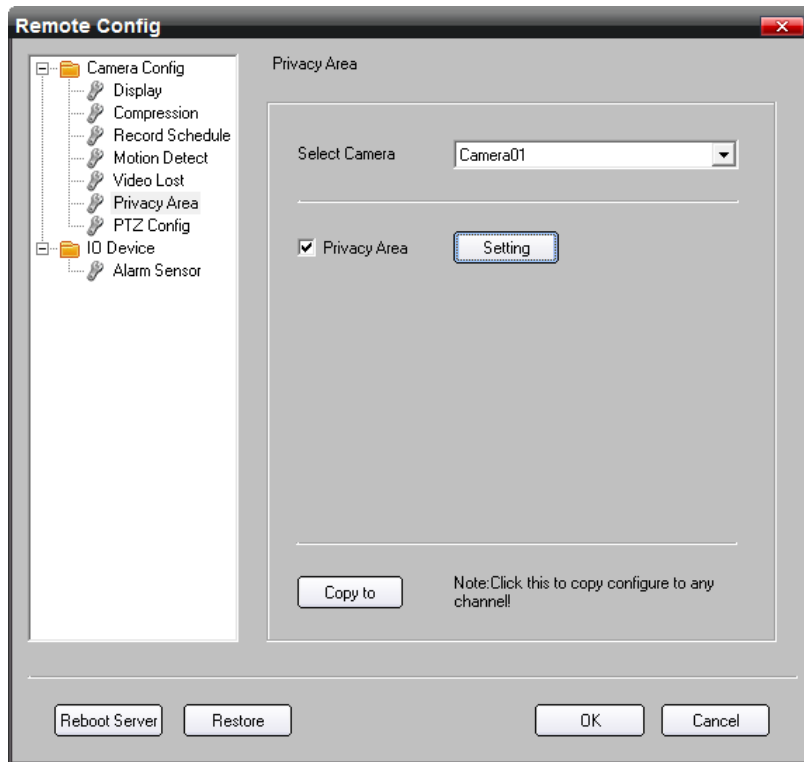
Press **[Copy to]** to copy **Video Lost** parameters to any camera that you selected.







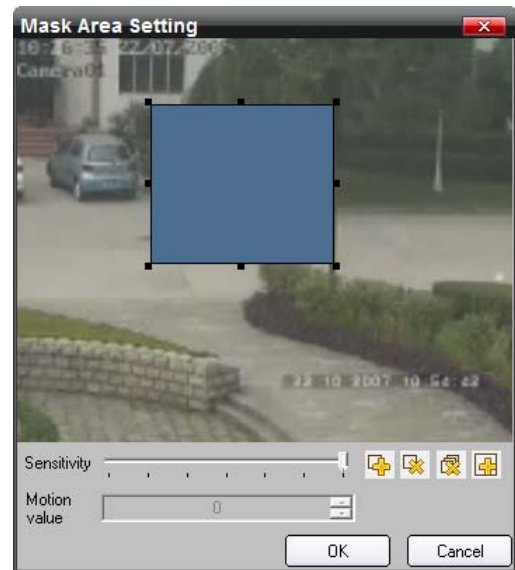
6. Privacy Area

[Select Camera] Select a camera.

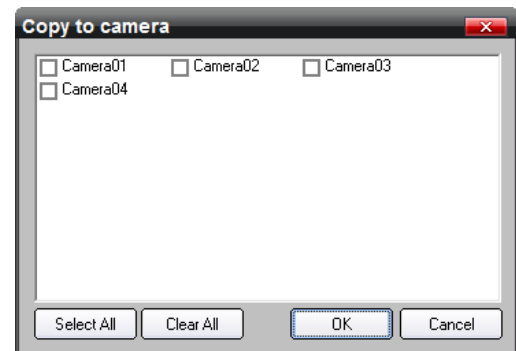
Select the **[Enable]** check box and press **[Setting]** to set Privacy Area.



Press  to add a privacy area,  to delete the area selected,  to delete all areas, and  to set the whole the camera as privacy area. The area can be enlarged or dwindled and drag and drop one or more area to change their position.



Press **[Copy to]** to copy **Privacy Area** parameters to any camera that you selected.



7. PTZ Configure

[Select Camera] Select a camera.

Select the **[Enable]** check box to set the PTZ parameters.

[Protocol] select a protocol;

[Address] Input the PTZ address;

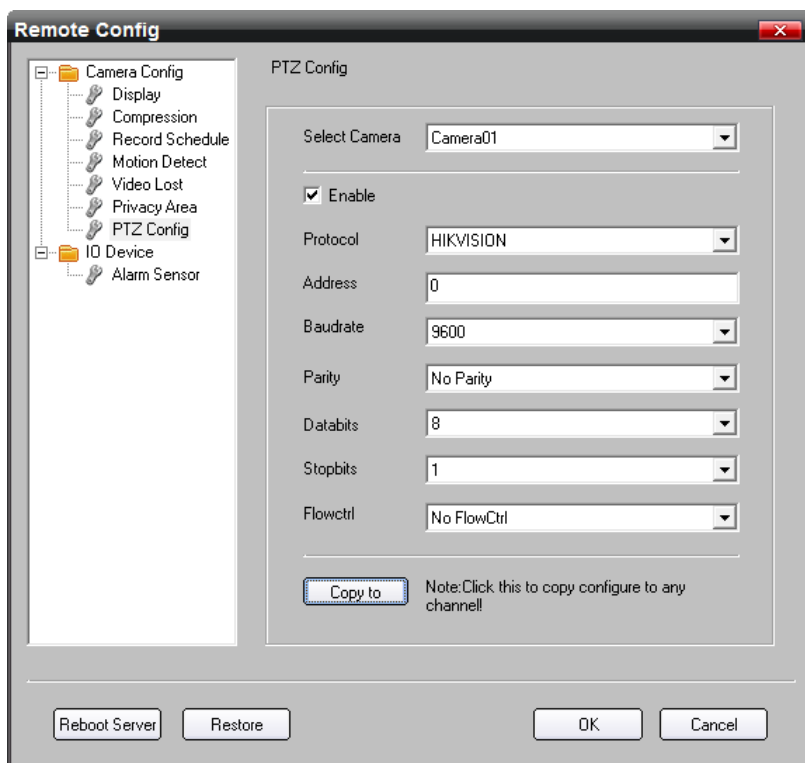
[Baud rate] select the baud rate;

[Parity] select Parity check;

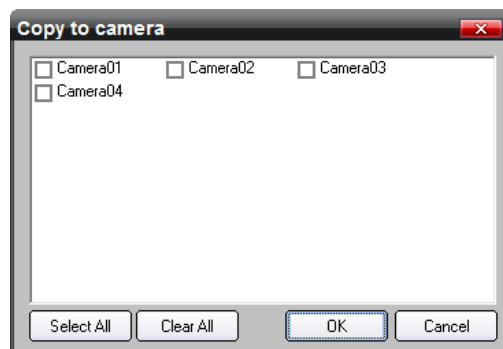
[Data bits] select the data bits;

[Stop bits] select the stop bits;

[Flow ctrl] select the flow control mode.



Press **[Copy to]** to copy **PTZ Configure** parameters to any camera that you selected.



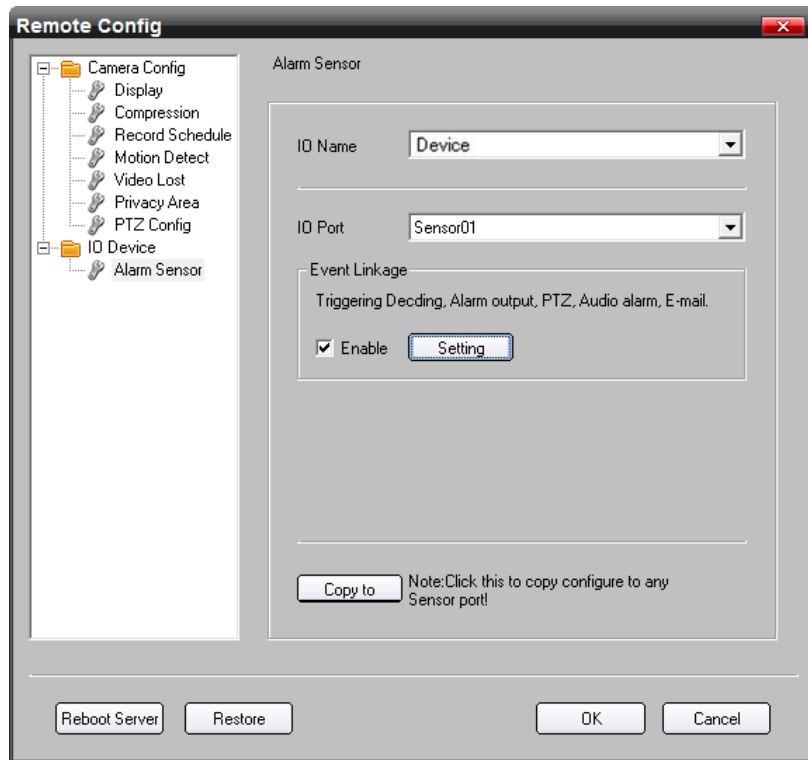
8.1.6.2 IO Device

IO Device contains only 1 part: Alarm Sensor.

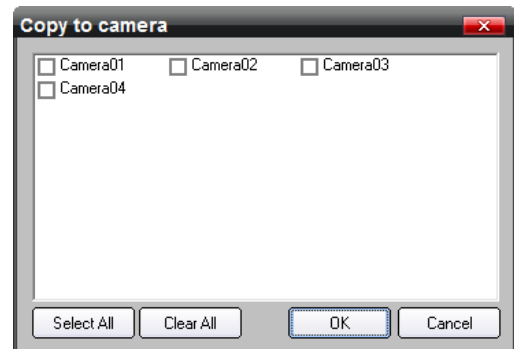
[IO Name] Select an IO Device.

[IO Port] Select a Sensor of the current IO Device.

If Users want to set the event linkage of Alarm Sensor, users should select the **[Enable]** check box and **press [Setting]**. The event linkage of Alarm Sensor is the same as Motion Detect.



Press **[Copy to]** to copy **Alarm Sensor** parameters to any IO port of the current IO Device that you selected.



8.2 Alarm

You can configure motion detection alarm, signal level alarm, video loss alarm and other alarm and linkage through client software.

8.2.1 Motion Detection Alarm

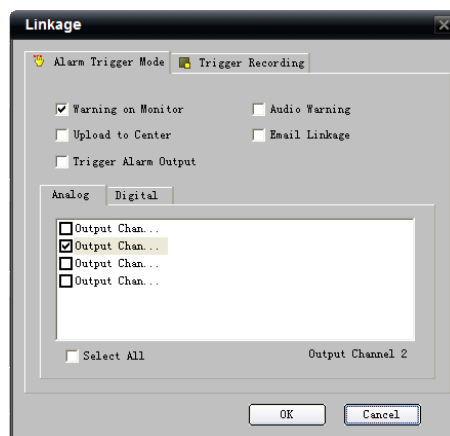
1st step: The same with the 1st step of [8.1.3 Motion Detection Recording](#)

2nd step: The same with the 2nd step of [8.1.3 Motion Detection Recording](#)

3rd step: The same with the 3rd step of [8.1.3 Motion Detection Recording](#)

4th step: The same with the 4th step of [8.1.3 Motion Detection Recording](#)

5th step: Set the alarm linkage for motion detection and select alarm output channel.



Alarm Linkages Description:

Linkage	Description
Warning on Monitor	When the alarm signal is detected, the image of corresponding channel will pop out as single screen.
Audio Warning	Alarm triggers buzzer
Upload to Center	Upload the alarm signal to the center, such as client software
E-mail Linkage	When the alarm signal is detected, the client software will send the email to the designated mailbox.
Trigger Alarm Output	Trigger alarm output of the device; if the device is 9000 series, triggering alarm output of IP channel can be selected as well.

8.2.2 Signal Level Alarm

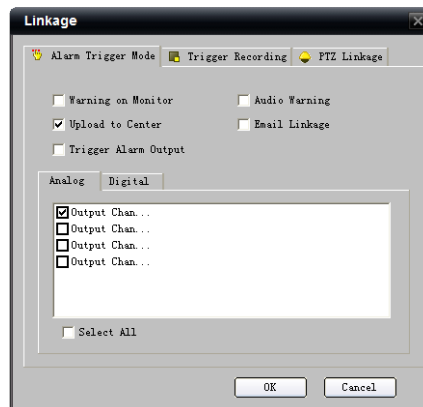
1st step: The same with the 1st step of [8.1.4 Alarm Recording](#).

2nd step: The same with the 2nd step of [8.1.4 Alarm Recording](#).

3rd step: The same with the 3rd step of [8.1.4 Alarm Recording](#).

4th step: The same with the 4th step of [8.1.4 Alarm Recording](#).

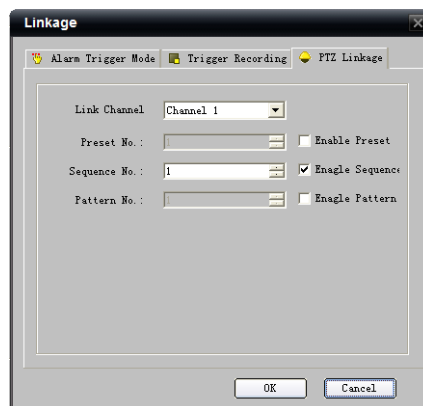
5th step: Set the alarm linkage for signal level and select alarm output channel.



6th step: Set PTZ linkage for signal level alarm.



Note: Alarm input can link PTZ of several channels, but one channel can only link one option of preset, sequence and pattern.



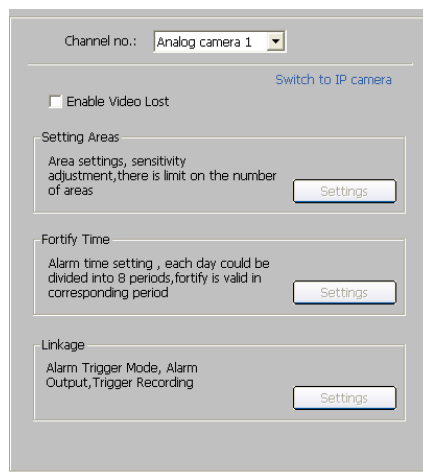
8.2.3 Video Loss

1st step: Select the channel number for video loss.

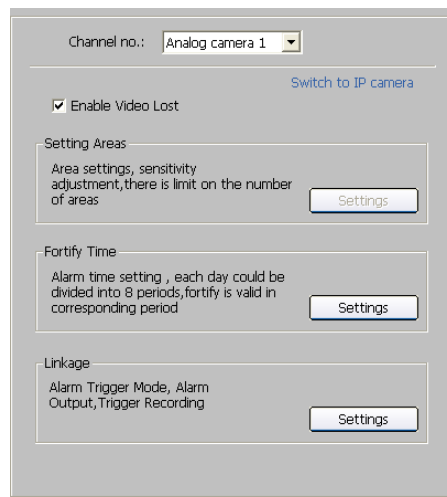
Select Channel Parameters → Video Lost




Note: If the device is 9000 series DVR, you can click “Switch to digital channel” to configure the video loss of IP channel.

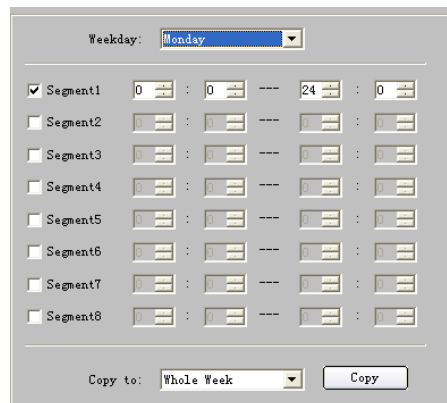


2nd step: Enable “Video Loss” to activate settings of “Fortify Time” and “Linkage”

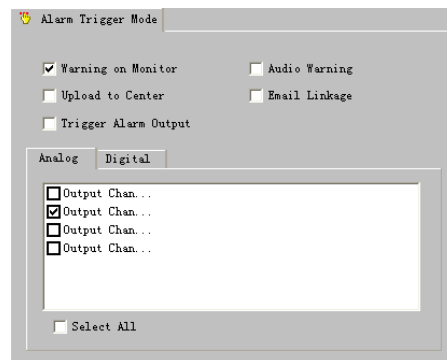


3rd step: Set the fortify time for video loss.
 Click “Settings” in “Fortify Time” menu.
 Select “Weekday” as some day of the week or the whole week for the fortify time.
 The “All Day Record” or 8 “Segments” can be selected as well.

 Note: The time of each segment can not be overlapped.





4th step: Set linkage for video loss.
 Click “Settings” in the “Linkage” menu.



8.2.4 Video Tampering

1st step: Select the channel number for video tampering.

Select  Channel Parameters →  **Video Tampering**



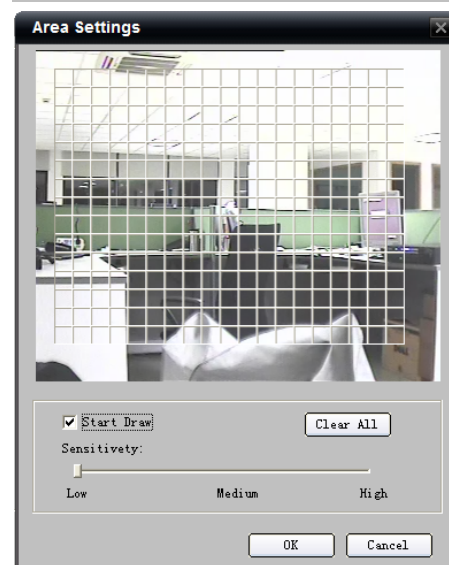
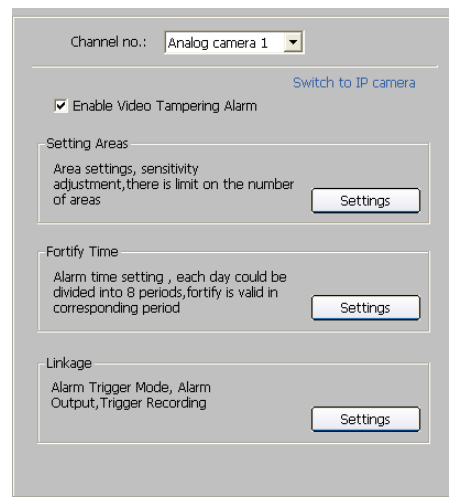
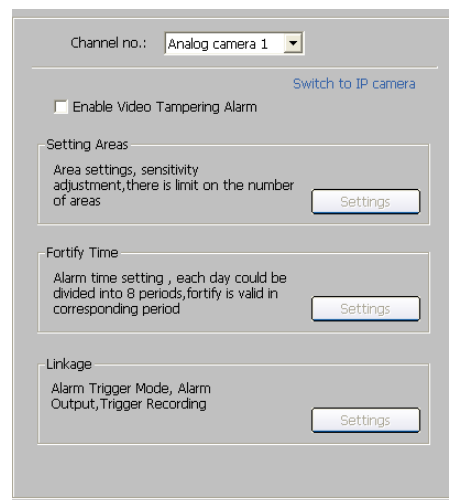
Note: If the device is 9000 series DVR, you can click “Switch to digital channel” to configure the video tampering of IP channel.

2nd step: Enable “Video Tampering Alarm” to activate settings of “Setting Areas”, “Fortify Time” and “Linkage”

3rd step: Set the video tampering area and sensitivity.

The sensitivity can be divided into three levels: Low, Medium, and High.

Enable “Start Draw”, and select the detection area by using mouse.




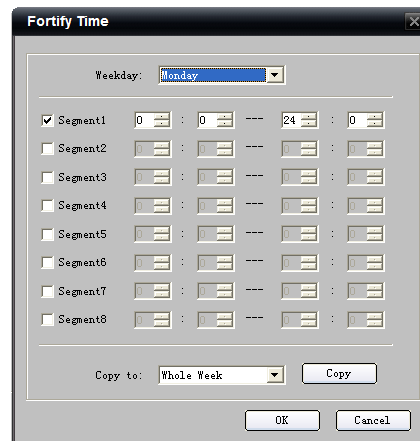
4th step: Set the fortify time for video tampering.

Click “Settings” in “Fortify Time” menu.

Select “Weekday” as some day of the week or the whole week for the fortify time.

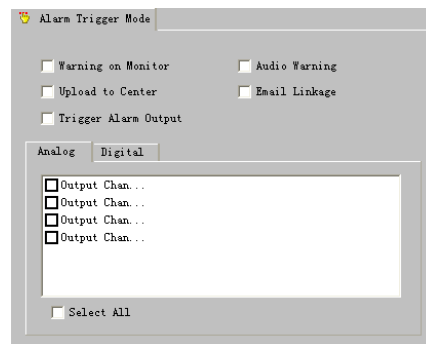
The “All Day Record” or 8 “Segments” can be selected as well.

 Note: The time of each segment can not be overlapped.



5th step: Set linkage for video tampering.


Click “Settings” in the “Linkage” menu.

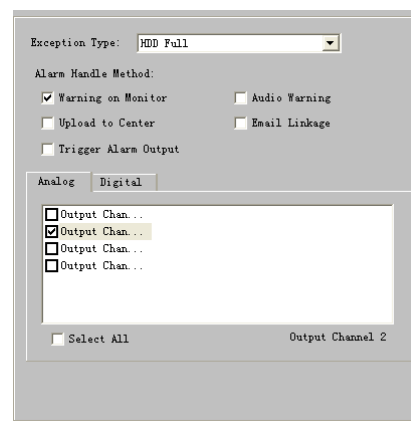


8.2.5 Exceptions

Exception parameters are for the alarm handle of abnormal event, which is including “HDD Full”, “HDD Fault” (HDD errors or HDD not initialization), “Network Broken”, “IP Address Conflict”, “Illegal Access” (user name or password wrong), “Video Output Standard Mismatch” and “Video Signal Exception” (video signal unstable).

Select the exception type and handle method.

Select  **Exception Parameters** to enter configuration interface.



8.3 Network Configuration

8.3.1 Basic Configuration

Select Network Parameters → Network Settings

Configure the network according to the actual situation.

If there is DHCP server in the network, enable “Obtain Auto” and reboot the device to get the IP address under this network segment automatically.

Select “Advance” to enter advanced configuration. You can configure preferred DNS server1 and spare DNS server2, IP address of alarm host and IP server.

Parameters	Description
DNS1 DNS2	Preferred and spare DNS server
Alarm host	Alarm signal can be uploaded to the IP address automatically
IP sever	IP address of IP server

8.3.2 PPPoE



Select Network Parameters → PPPoE Settings

Enable PPPoE by ticking , input the user name and password, then save the changes and reboot the device to make the parameters become effective.

If succeed to dial, the current IP address will be displayed in the blank “DDNS IP”.

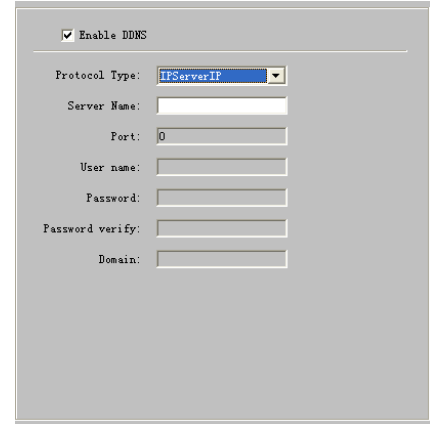
8.3.3 DDNS

Adopting DDNS function can solve the problems caused by dynamic IP.

Click  Network Parameters →  DDNS Settings

Enable DDNS.

If the “IPServerIP” is selected as protocol, then input the address where the IP server is running.



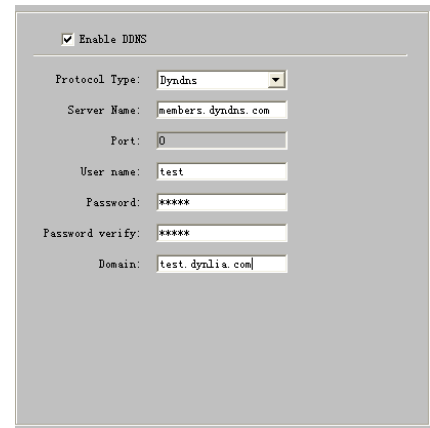
Enable DDNS
 Protocol Type:
 Server Name:
 Port:
 User name:
 Password:
 Password verify:
 Domain:

If the “DynDNS” is selected as protocol:

Server Name: Input the IP address of the server, such as members.dyndns.org;

Domain: the domain name that user applied for the device, such as test.dynlia.com;

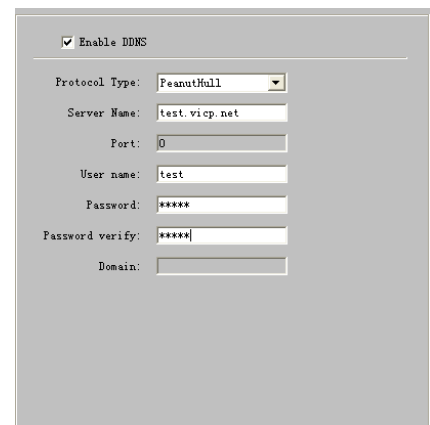
User name, password and verify: the account information that user registered on the DynDNS website.



Enable DDNS
 Protocol Type:
 Server Name:
 Port:
 User name:
 Password:
 Password verify:
 Domain:

If the “Peanut Hull” is selected as protocol:

Input the user name and password applied on the Peanut Hull website to visit the device by the applied domain name.



Enable DDNS
 Protocol Type:
 Server Name:
 Port:
 User name:
 Password:
 Password verify:
 Domain:

8.3.4 NTP

Adopting NTP function can enable client software to synchronize the time and data of the device regularly.

Select Network Parameters → NTP Settings

Tick to enable NTP function.

Note: Time Synchronization Interval: 0~10080 min (default 60min).

If the device connected to the public network, the IP address of NTP server provided by carrier can be input in the blank "Server Address";

If the device connected to private network, the IP address of NTP server built by NTP software can be input the blank "Server Address".

8.3.5 NFS

By NFS configuration, recorded data can be saved to the network storage disk provided by NAS server.

Select Network Parameters → NFS Settings

Input the IP address of NAS server in the blank "Server IP address"; input the saving path allocated by NAS server in the blank "File Path".

Note: Make sure that the device supports NFS function and NAS server allocated the storage space correctly. DS-9000 device does not support NFS function.

Disk No.	Server IP Address	File Path
1	172.8.97.11	/dev/123
2	0.0.0.0	
3	0.0.0.0	
4	0.0.0.0	
5	0.0.0.0	
6	0.0.0.0	
7	0.0.0.0	
8	0.0.0.0	

8.3.6 E-Mail

Through E-mail configuration, the e-mail can be sent to the designated mailbox when there is an alarm.

Select Network Parameters → E-mail Settings

If server authentication is needed, enable it (i.e.) and input user name and password.



Input the sender and recipient information, if need to send picture, you can enable "Attachment" (i.e.)

Note: Make sure that the device supports email function and NAS server allocated the storage space correctly. DS-9000 device does not support email function.

User Name	Email Address
Sender	sender@cba.com
Receiver1	recipient@abc.com
Receiver2	
Receiver3	

8.4 Channel Configuration



8.4.1 Channel Display Settings


Select  Channel Parameters →  [Display Settings](#)

You can configure channel name, OSD and related parameters here.

8.4.2 Video Mask

1st step: Select channel number, and enable video mask (i.e.).

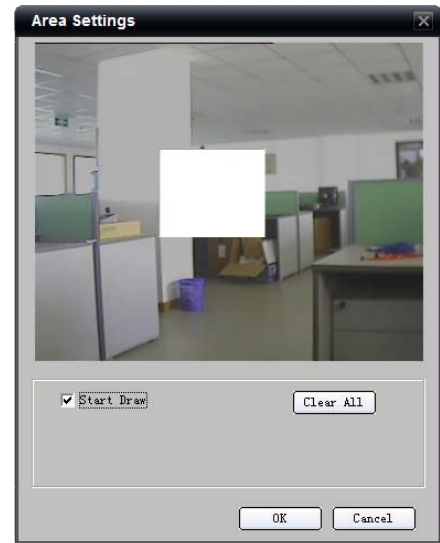
Select  Channel Parameters →  Video Mask

 Note: If the device is 9000 series, click “Switch to digital” to choose IP channel and configure the parameters.

2nd step: Set the mask area.

Click “Settings” to enter area set menu.

Enable “Start Draw” (i.e.), select the mask area by clicking and dragging the mouse.



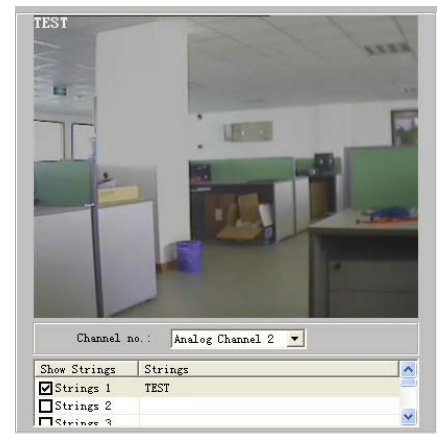
8.4.3 Text Overlay

You can add characters on the screen of the channel.

Select Channel Parameters → Text Overlay


Tick “Strings 1” (i.e.) to enable text overlay, double click the strings area to input the characters you want to overlay on the screen.

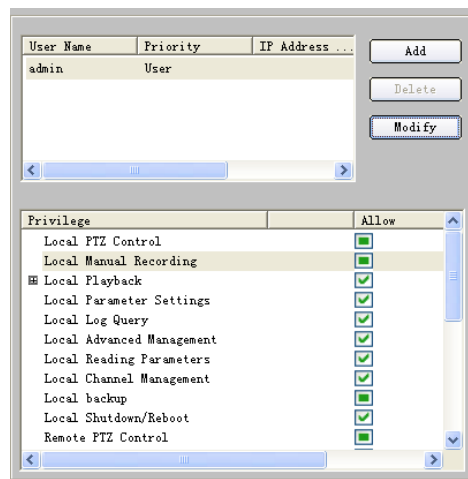
Note: If the device is DS-9000, then only analog channel support text overlay.




8.5 Account Management

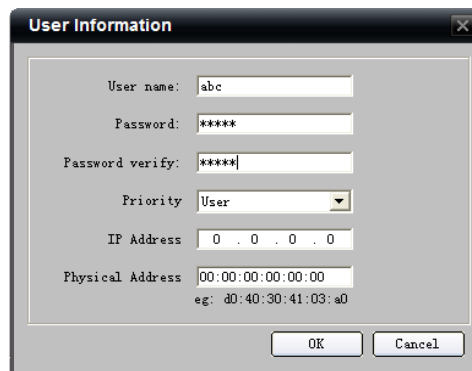
The default user name and password of device administrator are “admin” and “12345”. Administrator can remote add, delete users or distribute authority for users. The new added users are divided into two levels: user and operator. (For “Remote Configuration” privilege, operator has “Voice Talk” right, user does not; for “Channel Configuration” privilege, operator has all the rights, user has local playback, remote playback rights.)

Select  Account Management



Click "Add" to add user.



 Note: If you set the IP address or physical address, and then only the PC with the same IP address or physical address can visit the device through network.




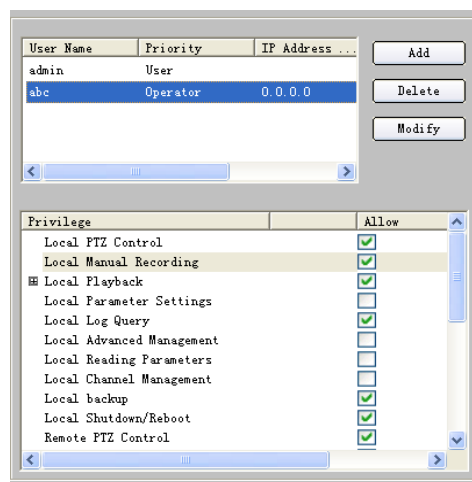
Click "Modify" to change the user name and password; click "Delete" to delete the user.

Status means privilege granted, status means privilege not granted.

If the privileges are related to channels, then status means granting the privileges of all channels; status means granting no privileges of all channels.


Click  to unfold the channels, and set the privilege for each channel. If only part of channels have operating privileges, the status will be .

 Note: Please refer to the user manual of the device for the detailed descriptions on privileges.

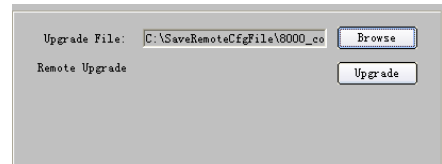


8.6 Others

Remote Upgrade:

Click  **Update Remotely**

Click "Browse" to search the local upgrade file, click "Upgrade" to start upgrade remotely.

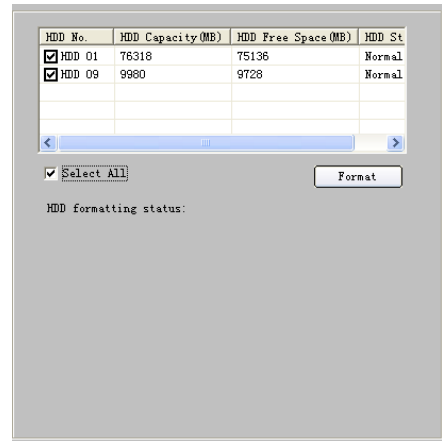


HDD Format:

Click  **HDD Format**



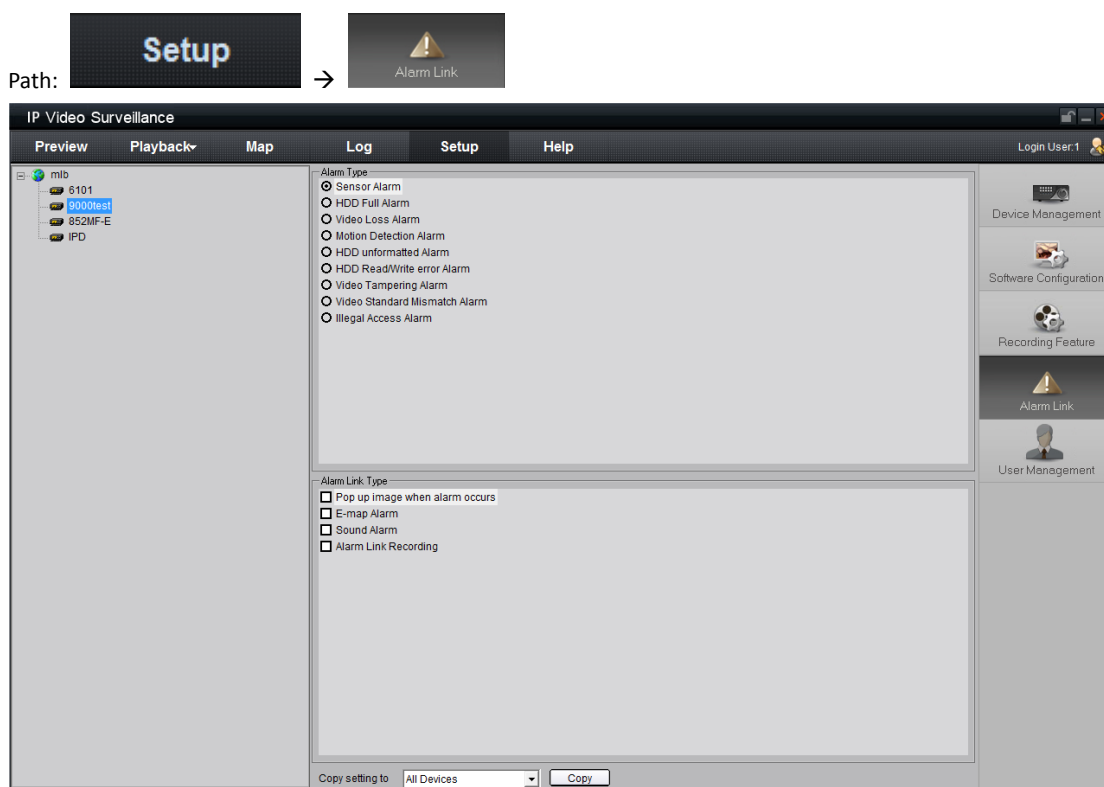
Note: Please backup the data before formatting hard disk.




Chapter 9 Alarm Linkage

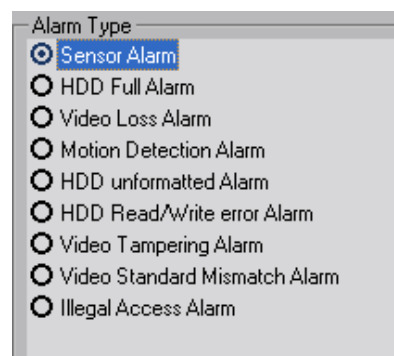
According to the various alarm signals uploaded from the device, client software can configure the different linkages for them.

9.1 Linkage Configuration

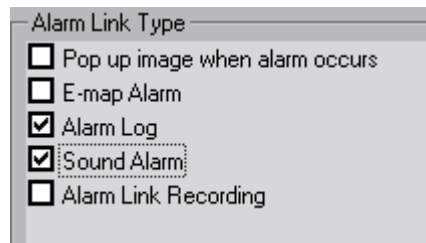


1st step: Select the device from the device area on the left, activate the alarm type and alarm linkage type options.

2nd step: Select the alarm type, after selected, the alarm type status will become .




3rd step: Select the alarm linkage type for the alarm type, and status means selected.




Descriptions on Alarm Linkage Type

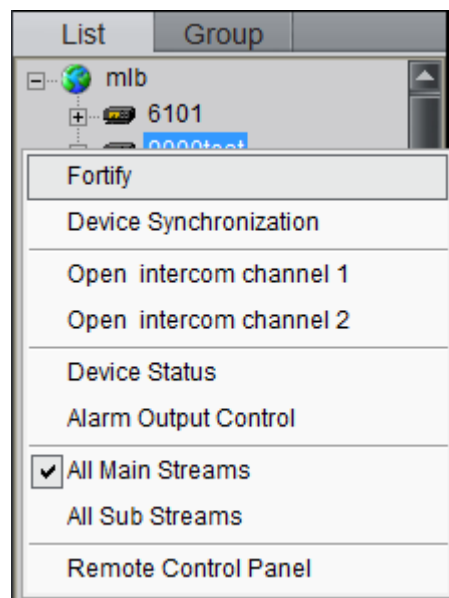
Linkage Types	Descriptions
Pop up image when alarm occurs	Pop up single screen image when alarm occurs
E-map Alarm	When alarm occurs, the related hotspot in the e-map twinkles
Alarm Log	Record a log on the alarm information when alarm received
Sound Alarm	Alarm triggers local alarm sound
Alarm Link Recording	Alarm triggers local recording of alarm channel

 Note: Before alarm linkage configuration, the alarm schedule and handle method of the device are required to set correctly.

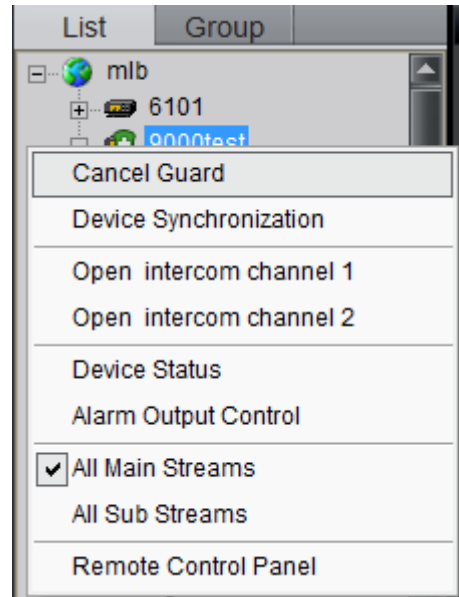
9.2 On Guard & Off Guard

You can choose “On Guard” and “Off Guard” to decide whether to handle alarm signal or not.

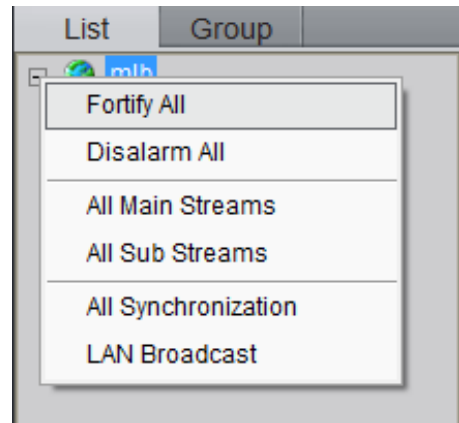
Right click the device name in the preview mode, and select “Fortify” to enable to monitor the alarm of the device; and the icon of the device will become as .



If the device is on guard, right click the device name, you can select the “Cancel Guard” to cancel monitoring the alarm of the device.



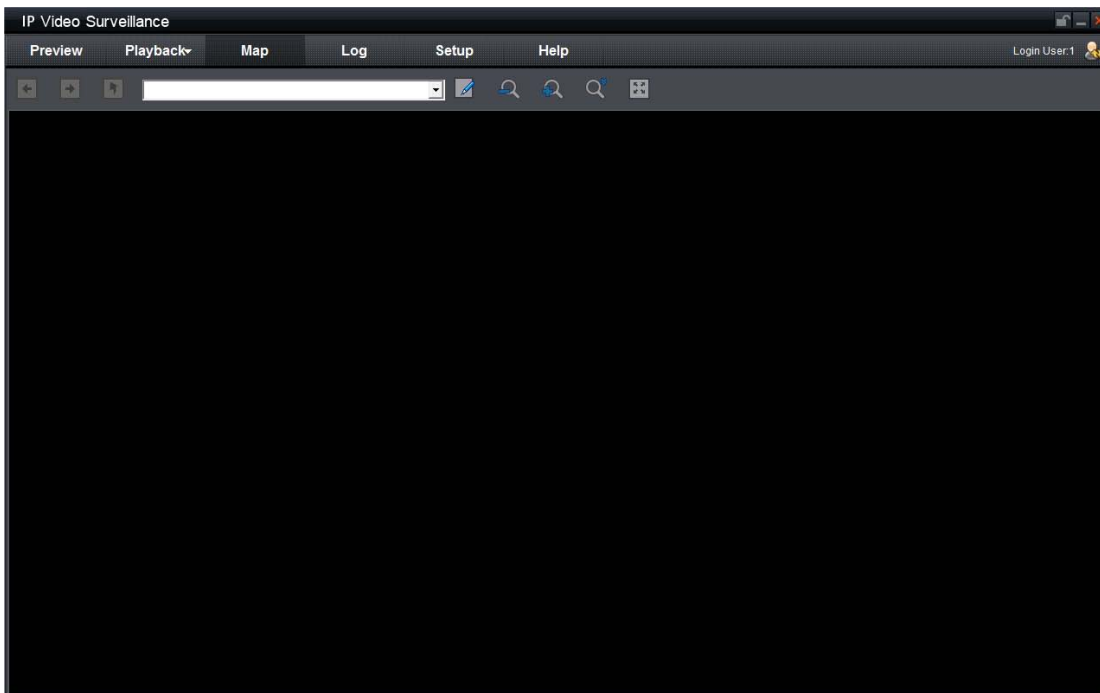
Right click the area name, select “Fortify All” or “Disarm All” for the whole devices of the device.



After the device or the area fortified, the alarm linkage will become effective when there is an alarm of the device. You need to re-fortify when client software restarts.

Chapter 10 E-Map

Click **Map** key to show the e-map window.



Toolbar Buttons Descriptions:

Buttons	Descriptions	Buttons	Descriptions
	Enable/Disable Map Edit		Enter/Exit Full Screen
	Zoom Out		Previous Page
	Zoom In		Next Page
	Zoom Adjustment		Upper Level

10.1 Add Map

1st step: Click button to enter map edit mode, the cursor will become as

2nd step: Right click the black area and select "Add Map" (or click button to display Map Info Area and right click the area and select "Add Map"), then the add map window will pop up.

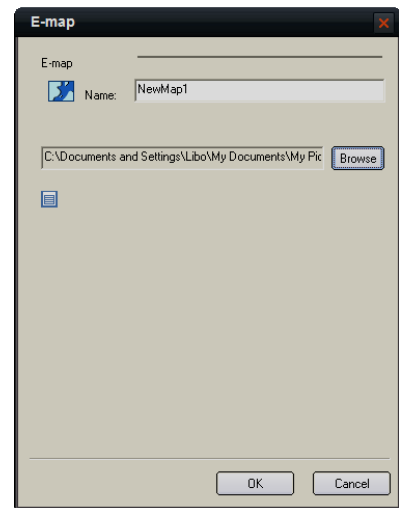
3rd step: Add the map.

Click "Browse" to search the image file on the local PC.

Click "OK" after renaming the file to finish.



Note: Supported file formats are BMP & JPEG.

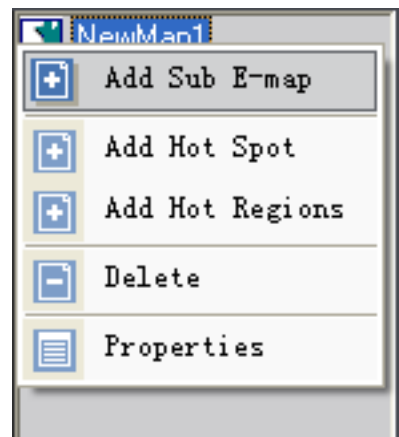


4th step: Add sub map, right click the image name in the map info area or the image itself, and the sub menu will pop up.

Select "Add Sub E-map" to add sub map.

Select "Properties" to change the map name and image file.

Select "Delete" to delete the selected map.



10.2 Map Configuration

Map configurations need to be done under the map edit mode.

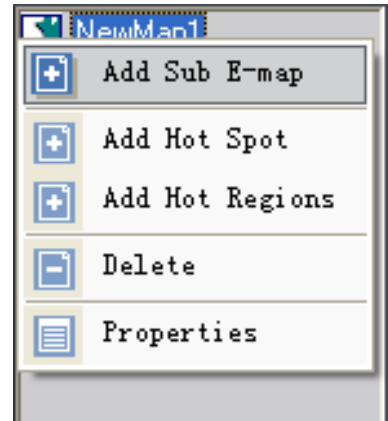
10.2.1 Hot Spot


Through hot spot configuration, user can mark out the location and live view of the monitoring points on the e-map.


10.2.1.1 Add Hot Spot

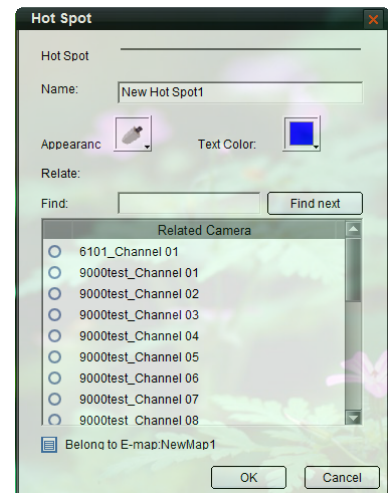
1st step: Enter add hot spot interface.

Right click the image name in the map info area or the image itself, and select "Add Hot Spot".




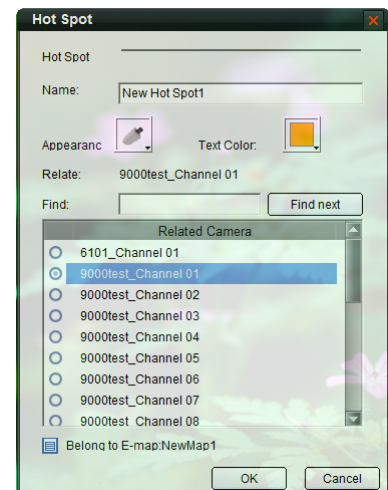
2nd step: Input the name of hot spot, click  and select the icon for hot spot.

You can also click  to change the color of characters.

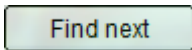


3rd step: Select the channel you want to relate to in the list "Related Camera", and press "OK" to finish.

After succeed to add hot spot, move the mouse to the icon of hot spot, it will become as , and you can move the hot spot by pressing left button and dragging.

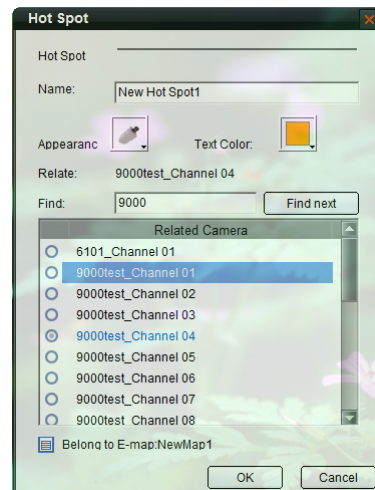


Input the key words in the “Find” blank, click



to find the channel whose name

embraces the key words.

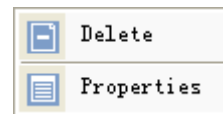


If the alarm links to e-map is set as alarm handling method, in the non-edit mode the hot spot will twinkle when there is an alarm of related channel triggered. Double click the hot spot; the live image of the related channel will pop out.

10.2.1.2 Edit Hot Spot

In the edit mode right click the icon of the hot spot, the edit menu will pop up.

Select “Delete” to delete the hot spot; select “Properties” to change the name, appearance and related monitoring point of the hot spot.



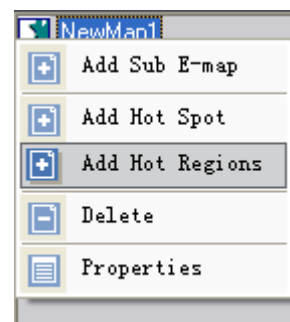
10.2.2 Hot Region


Hot region configuration can be used for displaying the sub map in the main map.


10.2.2.1 Add Hot Region

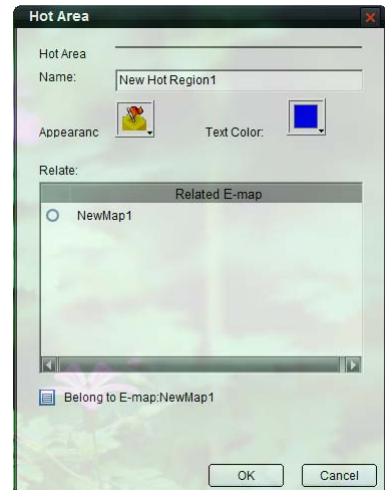
1st step: Enter hot region adding interface.

Right click the image name in the map info area or the image itself, and select “Add Hot Regions”.




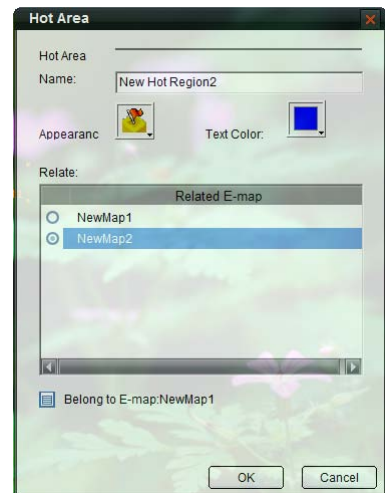
2nd step: Input the name of the hot region, click  button to select icon for hot region.

You can also click  to change the color of characters.




3rd step: Select the map from the “Related E-map” list, and press “OK” to finish.

After succeed to add hot region, move the mouse to the icon of hot region, it will become as , and you can move the hot region by pressing left button and dragging.



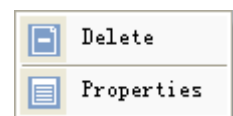
After hot region related to the map, double click the hot region icon in the non-edit mode will show the related map.

 Note: You cannot edit map unless in the edit mode.

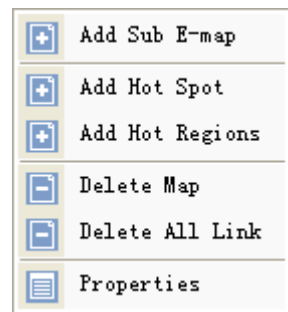
10.2.2.2 Edit Hot Region

In the edit mode right click the icon of the hot region, the edit menu will pop up.

Select “Delete” to delete the hot region; select “Properties” to change the name, appearance and related map of the hot region.

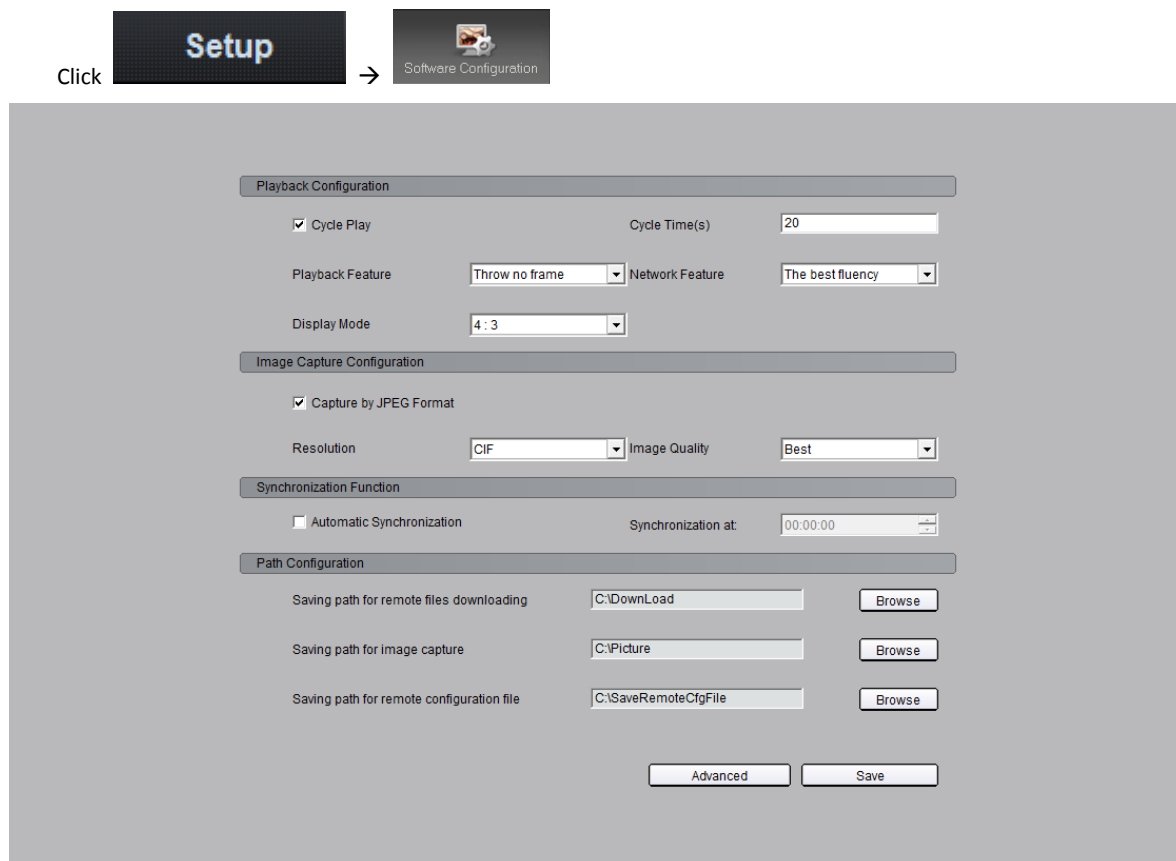


Right click the map in the edit mode, select “Delete All Link” to delete the all hot spot and region of the map.



Chapter 11 Utilities

11.1 Software Configuration

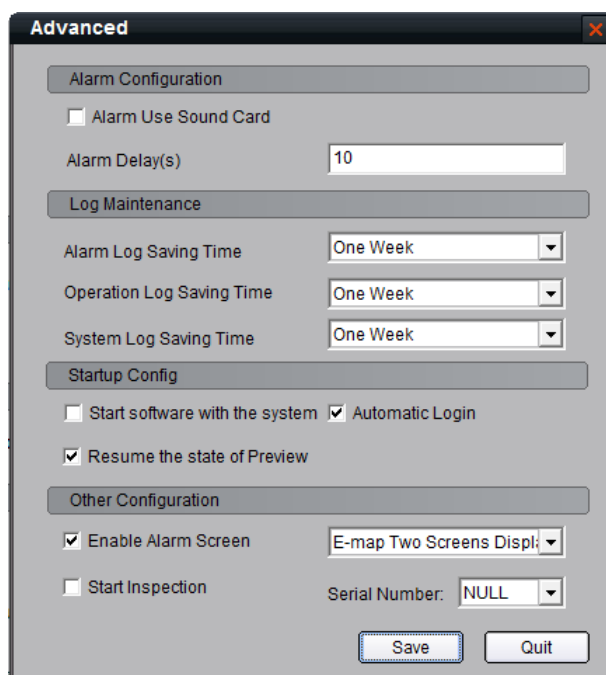


Descriptions on Software Configuration:

Software Configuration	Descriptions	Descriptions
Playback Configuration	Cycle Play	<input checked="" type="checkbox"/> means enable it
	Cycle Time	Set the time of cycle play
	Playback Feature	Configure the playback performance, whether to drop B frame
	Network Feature	Set the instantaneity and fluency for preview
	Window Display Mode	Set the display ratio of preview window
Image Capture Configuration	Capture Image by JPEG Format	<input checked="" type="checkbox"/> means JPEG format
		<input type="checkbox"/> means BMP format Image resolution and quality can be configured
Synchronization Function	Auto Synchronize	<input checked="" type="checkbox"/> means enable it, and user can set the time for

		synchronization
Path Configuration	Remote Download Path	Set the path for remote downloading recorded files
	Capture Saving Path	The saving path of captures from preview or playback
	Configuration File Saving Path	The saving path for exporting the configuration file

Click "Advanced Configuration" to enter alarm configuration, log maintenance and other configurations.



Descriptions on Advanced Configuration:

Advanced Configuration	Descriptions	Descriptions
Alarm Configuration	Alarm Use Sound Card	<input checked="" type="checkbox"/> means audible alarm outputs from sound card
	Alarm Delay	Set the time length of the alarm delay
	Alarm Monitoring Port	The port used for the device to upload alarm actively, which needs to the same with device configuration.
Log Maintenance	Alarm Log Saving Time	The retention period of the alarm log in the database
	Operation Log Saving Time	The retention period of the operation log in the database
	System Log Saving Time	The retention period of the system log in the database
Other Configuration	Enable Alarm Screen	Pop up the warning dialog box when error occurs
	E-map Two Screen Display	Select two screen display for e-map or remote playback
	Start Inspection	<input checked="" type="checkbox"/> means start to inspect the status of the current devices
	Auto Login	<input checked="" type="checkbox"/> means enable it
	Serial Number	Serial number for keyboard control

After enable inspection, if the device is offline, then the alarm light will twinkle, and the detailed information will be listed; if the device is on line, the alarm light stop twinkling and the on line information will be listed as well.

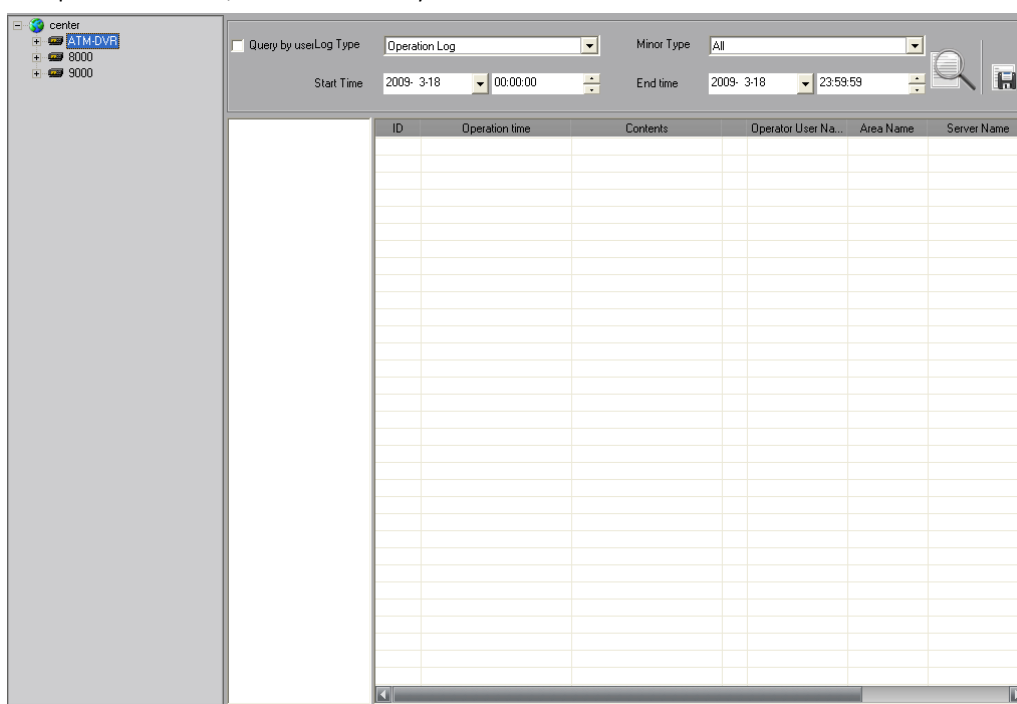
Time	Alarm Events
09-07-21 15:16:04	Device: 9000test is off line.

11.2 Log Management

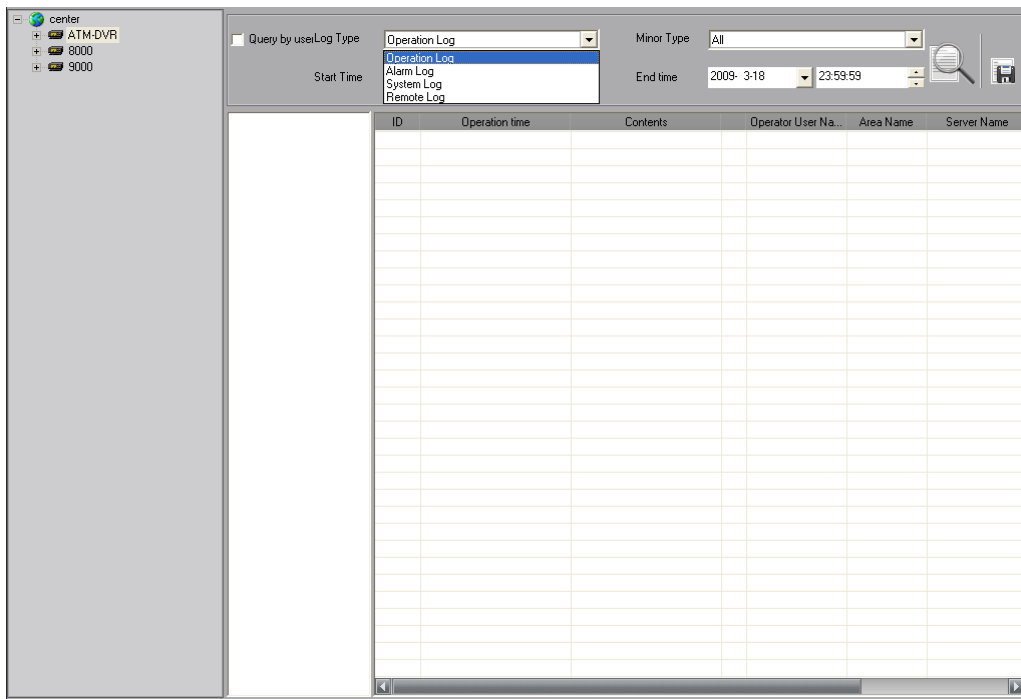
Click  to enter the manage interface

11.2.1 Log Query

1st step: Select the area, device or channel you want to search from.



2nd step: Select type and subtype for the log you want to search for.




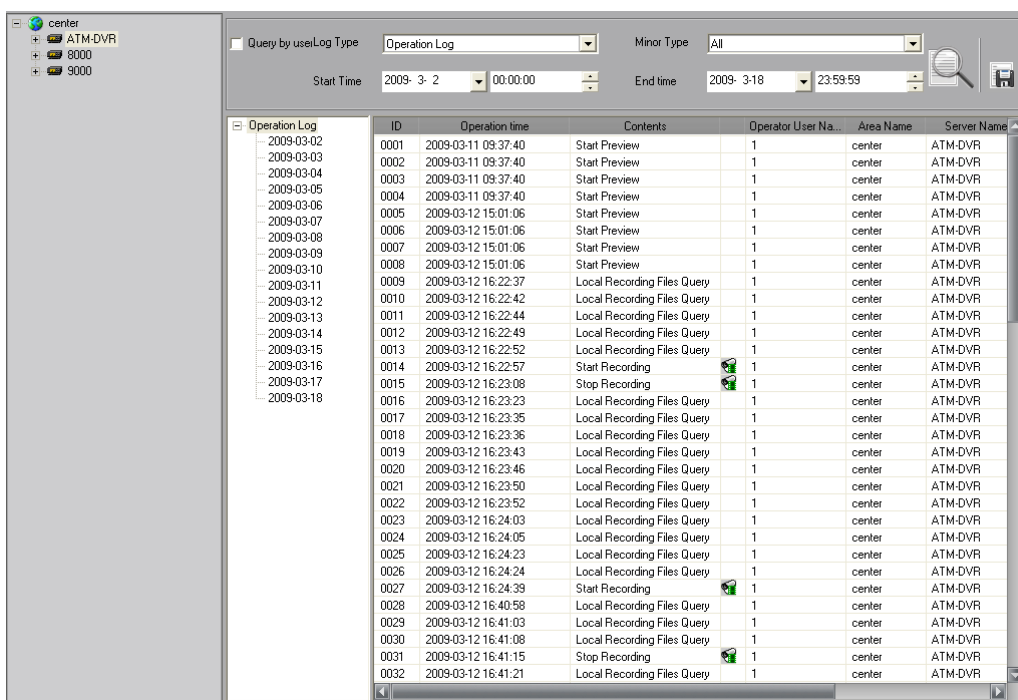
System Log: Record information on login, logout and software configuration.

Operation Log: Record information on the software operation.


Alarm Log: Record information on the alarm and it needs to be linked as alarm link type.

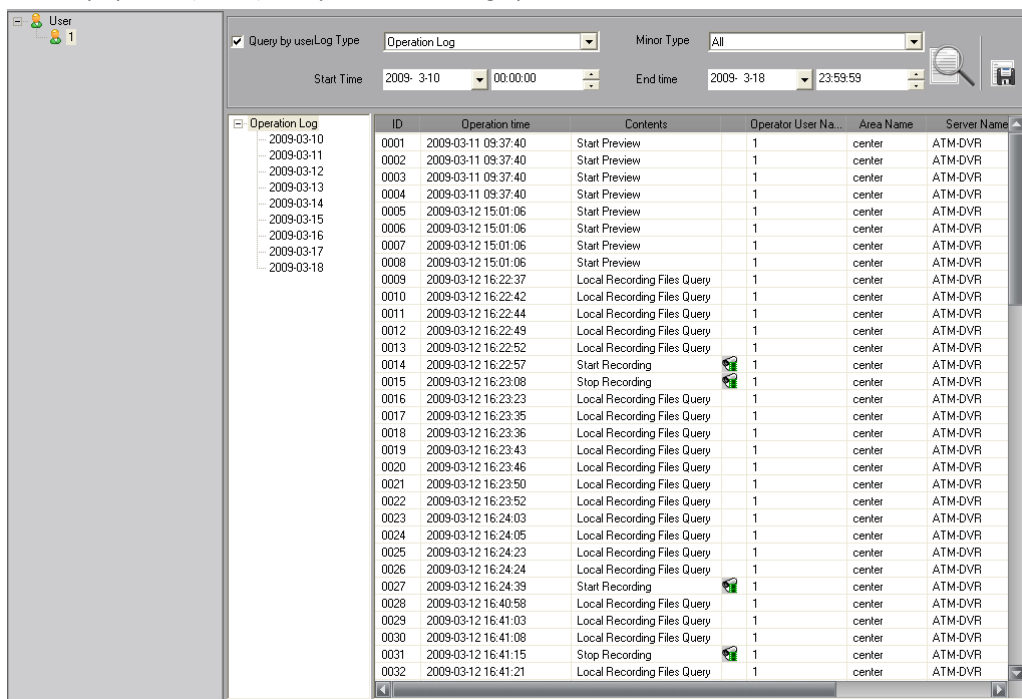
Remote Log: Record information on operations of the remote device.


3rd step: Select the start time and end time for the log query, click  button and the logs match condition will show in the list.



Double click the date in the list on the left, the logs of that day will show in the information list.





Enable “Query by user” (i.e. ) , and you can search log by users.




 Note: Up to 2000 logs can be displayed every time.


11.2.2 Playback Linked Recordings

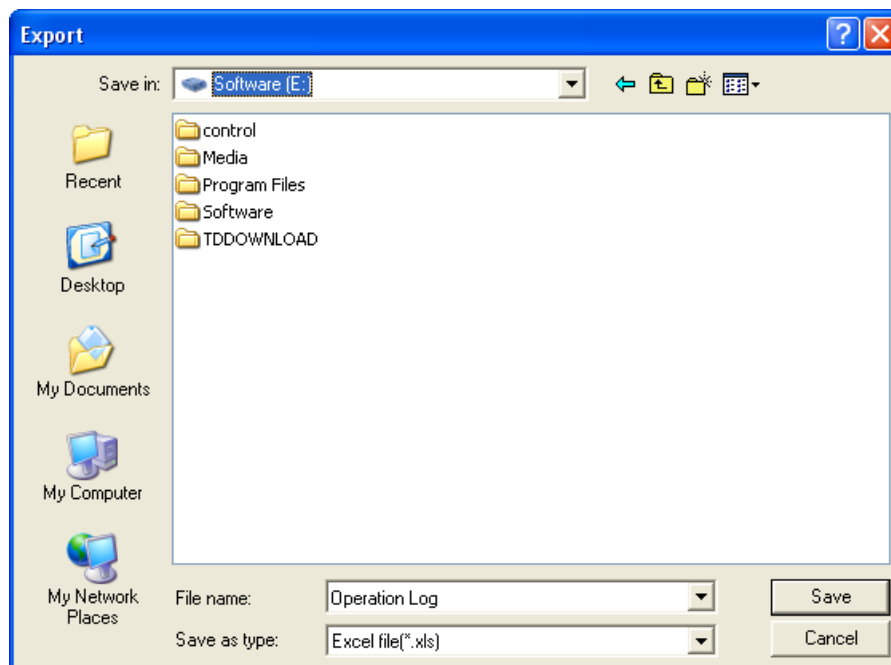
If the logs contain linked recordings, then you can play them back.

ID	Operation time	Contents	Operator ...	Area Name	Server Name	Cl	
0001	2009-03-11 09:37:40	Start Preview	1	center	ATM-DVR	[19	
0002	2009-03-11 09:37:40	Start Preview	1	center	ATM-DVR	[19	
0003	2009-03-11 09:37:40	Start Preview	1	center	ATM-DVR	Ch	
0004	2009-03-11 09:37:40	Start Preview	1	center	ATM-DVR	[19	
0005	2009-03-12 15:01:06	Start Preview	1	center	ATM-DVR	[19	
0006	2009-03-12 15:01:06	Start Preview	1	center	ATM-DVR	[19	
0007	2009-03-12 15:01:06	Start Preview	1	center	ATM-DVR	Ch	
0008	2009-03-12 15:01:06	Start Preview	1	center	ATM-DVR	[19	
0009	2009-03-12 16:22:37	Local Recording Files Query	1	center	ATM-DVR		
0010	2009-03-12 16:22:42	Local Recording Files Query	1	center	ATM-DVR		
0011	2009-03-12 16:22:44	Local Recording Files Query	1	center	ATM-DVR		
0012	2009-03-12 16:22:49	Local Recording Files Query	1	center	ATM-DVR		
0013	2009-03-12 16:22:52	Local Recording Files Query	1	center	ATM-DVR		
0014	2009-03-12 16:22:57	Start Recording		1	center	ATM-DVR	[19
0015	2009-03-12 16:23:08	Stop Recording		1	center	ATM-DVR	[19
0016	2009-03-12 16:23:23	Local Recording Files Query	1	center	ATM-DVR		
0017	2009-03-12 16:23:35	Local Recording Files Query	1	center	ATM-DVR		
0018	2009-03-12 16:23:36	Local Recording Files Query	1	center	ATM-DVR		
0019	2009-03-12 16:23:43	Local Recording Files Query	1	center	ATM-DVR		
0020	2009-03-12 16:23:46	Local Recording Files Query	1	center	ATM-DVR		
0021	2009-03-12 16:23:50	Local Recording Files Query	1	center	ATM-DVR		
0022	2009-03-12 16:23:52	Local Recording Files Query	1	center	ATM-DVR		
0023	2009-03-12 16:24:03	Local Recording Files Query	1	center	ATM-DVR		
0024	2009-03-12 16:24:05	Local Recording Files Query	1	center	ATM-DVR		
0025	2009-03-12 16:24:23	Local Recording Files Query	1	center	ATM-DVR		
0026	2009-03-12 16:24:24	Local Recording Files Query	1	center	ATM-DVR		
0027	2009-03-12 16:24:39	Start Recording		1	center	ATM-DVR	[19
0028	2009-03-12 16:40:58	Local Recording Files Query	1	center	ATM-DVR		
0029	2009-03-12 16:41:03	Local Recording Files Query	1	center	ATM-DVR		
0030	2009-03-12 16:41:08	Local Recording Files Query	1	center	ATM-DVR		
0031	2009-03-12 16:41:15	Stop Recording		1	center	ATM-DVR	[19
0032	2009-03-12 16:41:21	Local Recording Files Query	1	center	ATM-DVR		

Click icon  in the list to play back the linked recordings.

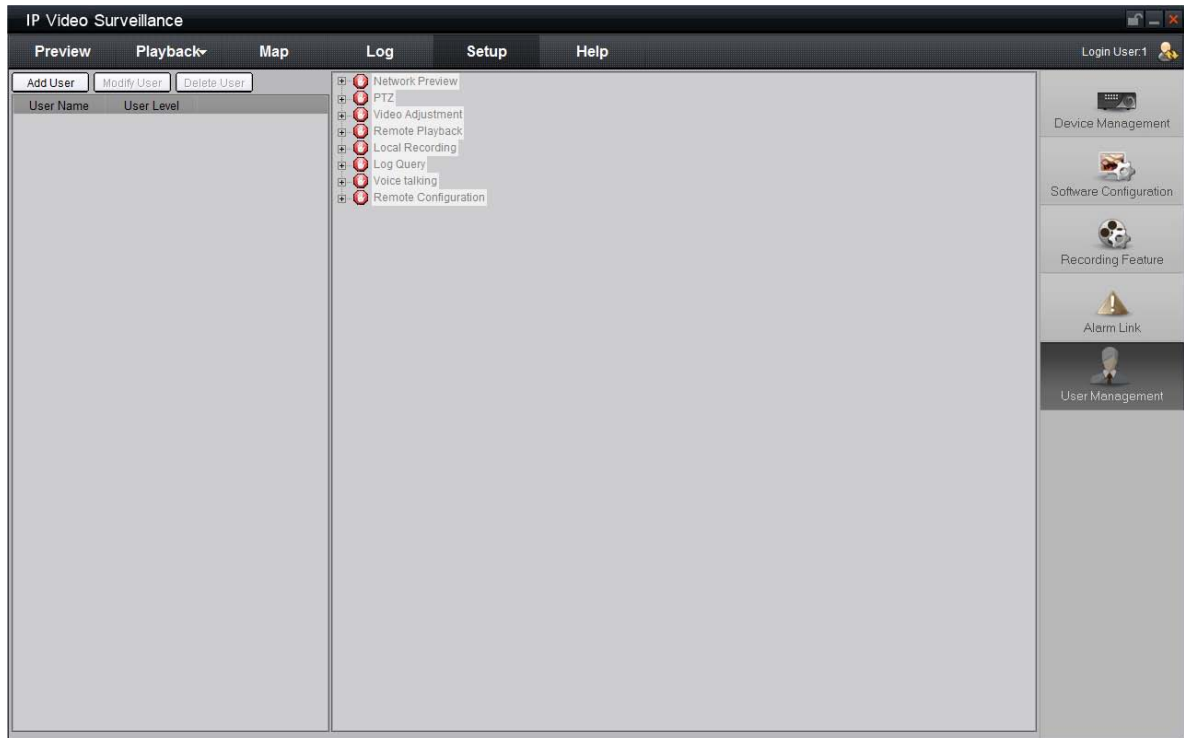
11.2.3 Export Log

Click  button to export current logs as Excel or Txt format.



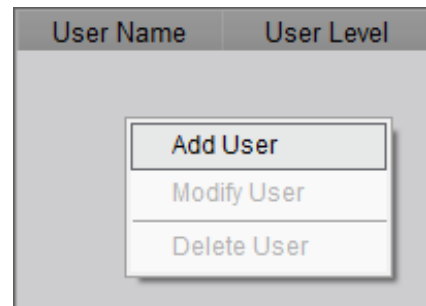
11.3 User Management

Click  → 



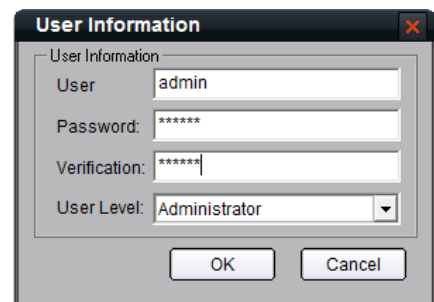
11.3.1 Add & Delete User

Right click the user list on the left, and select "Add User".



Input the user name, password and select the level for user, then click "OK" to finish.

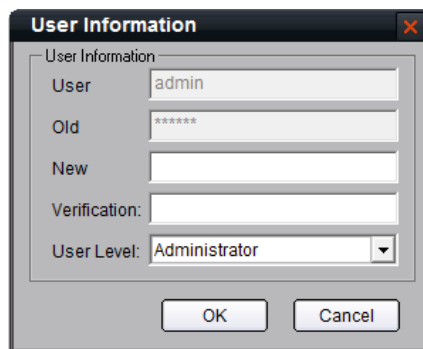
There are two options for user level: Super User and Guest. Super User has all the rights by default; as for Guest, you need to set the rights for it.



Double click the user name or right click it and select “Modify User” to change the password and user level.



Note: The administrator registered when the software ran for the first can change password and user level; super user can change user password, guest has no rights on user management.



User Privileges Descriptions:

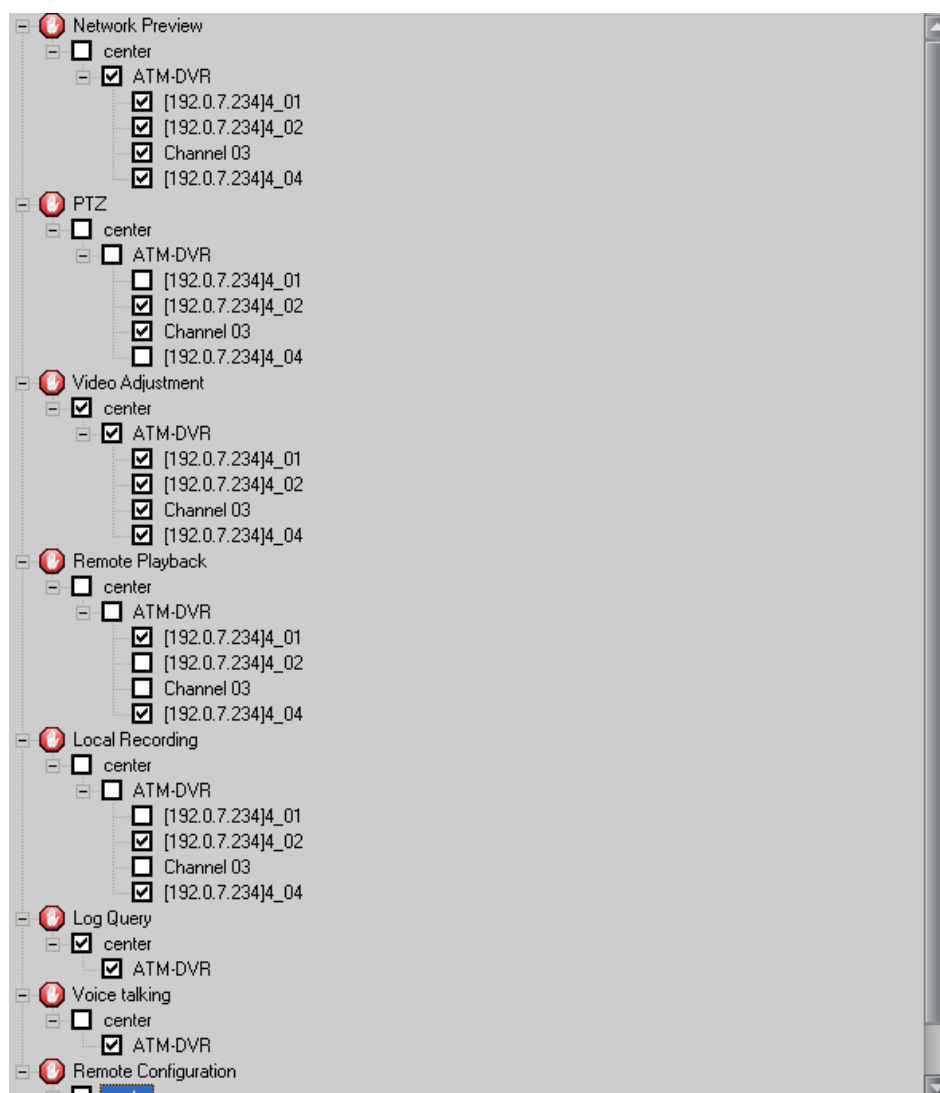
User Type	Privilege	Descriptions
Registered User	Add user	Add super user and normal user
	Modify user	Modify the levels of all users and privileges of normal users
	Operation Privilege	With all privileges by default, cannot be changed.
Administrator	Add user	Add normal user
	Modify user	Modify the privileges of normal users
	Operation Privilege	With all privileges by default, cannot be changed.
Others	Add user	No privileges
	Modify user	No privileges
	Operation Privilege	No local configuration privileges, needs to set the privileges first.




Note: The administrator can be modified in the login dialog box instead of the user management. The password cannot be null and should be more than 6 characters.

11.3.2 User Rights Distribution

Select a guest, and click the rights tree on the right to distribute the rights for user.



 Note: The operations are available for the guest only when the corresponding rights are distributed.

Appendix 1

V2.00.01 New Features

1. User friendly GUI
2. 32 & 64 divisions are added to window division options.
3. User-defined name of alarm out
4. Preview window information can be memorized when exiting the client software.
5. Support remote playback, NAS VOD, VOD function, intelligent analysis and synchronous playback as well.
6. Dual VGA display in remote VOD interface
7. Add full screen of multi-channel and control in local playback interface
8. Max support 16 NVR server for centralized storage
9. Modified double-click enlargement mode in the preview interface
10. Pop-up remote configuration menu

V2.00.02 New Features

Preview

1. Add ESC button to exit full screen of multi-channel.
2. Add preview state resume function.
3. Add device remote control panel.
4. Add "Start Recording" & "Stop Recording" in the right-click menu when preview.
5. Add fortify state resume function.
6. Add 1003/1002KI, USB joystick control PTZ function.
7. Display thumbnail and save path of the capture, click thumbnail to open capture, save path to open capture folder.

Playback

8. Add NAS remote VOD function when device is offline (Succeed to playback files on NAS before).
9. Add click time bar to fix the position of all playback windows.
10. Add pause hint in synchronous playback.
11. Unified time bar and play control between remote VOD and local playback.

Configuration

12. Add startup with windows function.
13. Add wizard of add device.
14. Add default group.
15. Refine buttons of PTZ, video parameters, presets and sequence.
16. Add sequence configuration buttons.
17. Refine local and NVR recording menu.
18. Add motion detection recording in NVR configuration.

19. Add PCDVR configuration menu.

User

20. Input the password when admin change the user account.
21. Change "Super User" as "Administrator".
22. Add function buttons of "Add User", "Delete User" & "Modify User".
23. Add admin password length hint.

Map

24. Add text color in the hot region and spot menu.
25. Add find function in the hot spot menu.
26. Up to 4 hot spot images in the map.
27. Enlarge hot spot image to 4CIF by double clicking.
28. Add previous map resume function when client software restarts.

Other

29. Add function of pressing F1 to open user manual.
30. Reorder the buttons in the main interface.
31. Add adjustable alarm info area function.
32. Add icon right-click menu after minimizing client software.
33. Add button tooltip in playback recordings linked by log
34. Move help menu to the main function pane.