



# The Intelligent Surveillance Solution

## Surveillance Management Software user's manual

Ver. 99.280.7C19.001

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## System Requirement

### SYSTEM REQUIREMENT

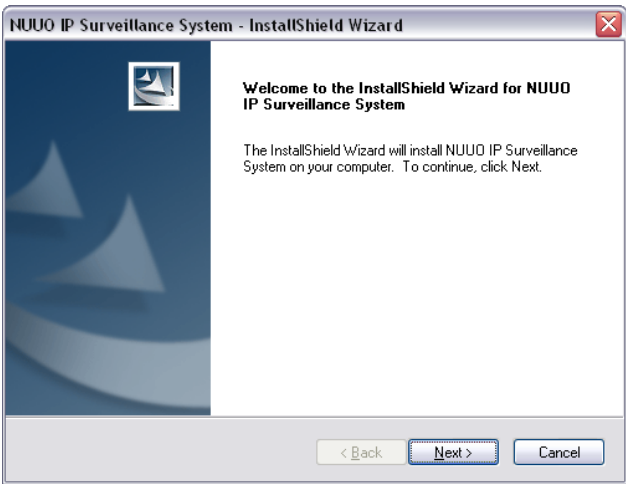
Total FPS at CIF	1200~600	600~480	480~240	240~120	120~
CPU	Intel Core 2 Quad Q6600	Intel Core 2 Duo E6400	Intel Pentium D 930	Intel P4 2.8 GHz	Intel P4 2.8 GHz
RAM	2 GB	1 GB	1 GB	512 MB	512 MB
Mother- board	Intel 945, 965 chip or above, Intel Chipset and ASUS Vender recommended				
Display	ATi Radeon 9200 , nVIDIA GeForce FX-5200 , Intel 945G/965G or above (ATi recommended)				
Ethernet	100 baseT or above, Gigabit LAN recommended				
Hard Disk	80 GB or above				
OS	MS Windows 2000 / XP pro sp2 / 2003				

Installation

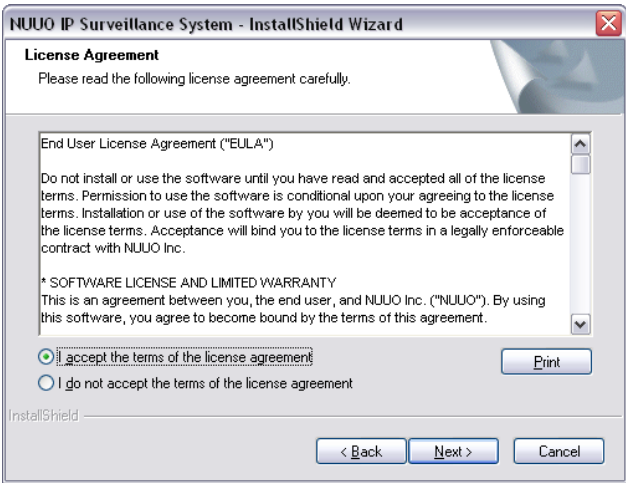
INSTALLATION

Step 1: Insert the Installation CD.

Step 2: Run Setup.exe from the CD-ROM directory to install.



Step 3: Check the option "I accept the terms of the license agreement".





## Installation

**Step 4:** Please enter your name and the company name for which you work.

**NUUO IP Surveillance System - InstallShield Wizard**

**Customer Information**  
Please enter your information.

Please enter your name and the name of the company for which you work.

User Name:  
User

Company Name:  
Company

InstallShield

< Back   Next >   Cancel

### COMPLETE SETUP TYPE:

Install all program features into the default directory.

Check the option "Complete".  
All program features will be installed. [Require the most disk space.]

**NUUO IP Surveillance System - InstallShield Wizard**

**Setup Type**  
Select the setup type to install.

Please select a setup type.

☒ Complete  
All program features will be installed. (Requires the most disk space.)

☐ Custom  
Select which program features you want installed. Recommended for advanced users.

InstallShield

< Back   Next >   Cancel

Press the "install" to start the installation.

**NUUO IP Surveillance System - InstallShield Wizard**

**Ready to Install the Program**  
The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

InstallShield

< Back   Install   Cancel

Installation

CUSTOM SETUP TYPE:

Install the system to a preferred directory. Or select whichever feature(s) you wish to install.

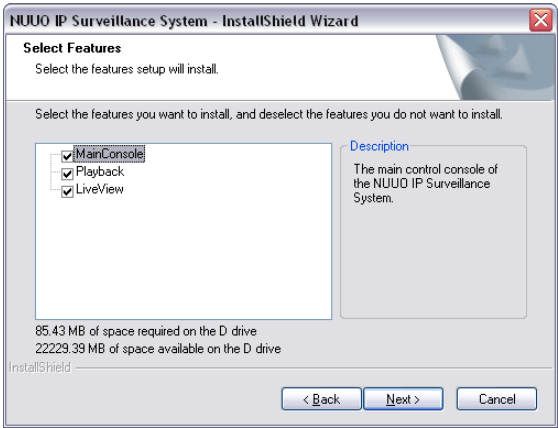
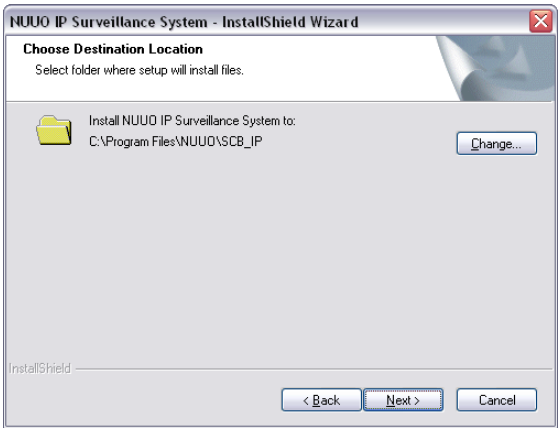
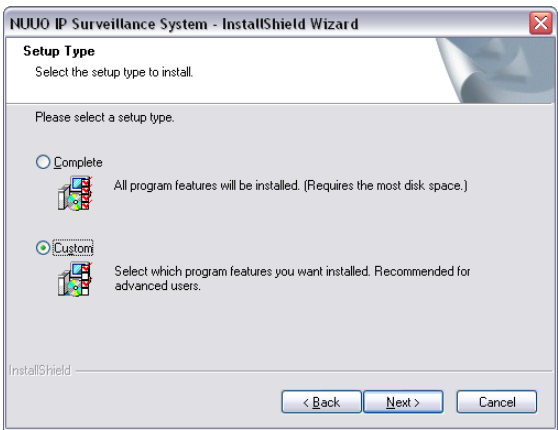
Check the option “Custom”. Select which program features you want to install. This is recommended for advanced users.

Select folder where setup will install files.

Select the features setup will install.

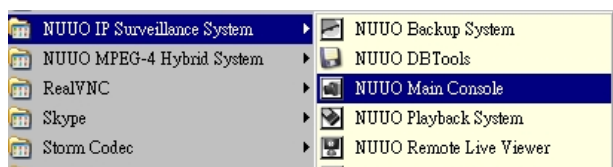
*Hint:* For example, select only Playback and LiveView for installation. Install and use only these features on multiple remote sites at home or anywhere with a PC.

Press “Finish” to finish the installation.



## Installation

Execute the Main Console



Enter the password you like into the edit box and enter again at the edit of Password Confirm. And then press "OK". Now enjoy our Intelligent Surveillance Solution.



### QUICK START

### INSTALL IP CAMERA(S)

**Step 1:** Setup the IP camera(s) following by the instruction manual provided by the manufacturer.

**Step 2:** Check the network between the IP camera(s) and the system.

**Step 3:** Add the IP camera(s) to the system following below steps.

### ADD IP CAMERA(S)

**Step 1:** Go to Start > All Programs > NUUO > Main Console.

**Step 2:** Type in user name and password and log on to the system.

**Step 3:** In Main Console, go to Config > Setting to obtain the Setting panel.

**Step 4:** Go to Camera tab.

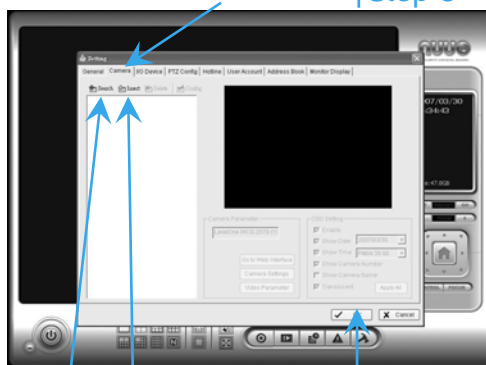
If your IP cameras support UPnP. Follow step 5. Otherwise, follow step 8.

**Step 5:** Click "Search" to search for the IP cameras that are available at

this point.

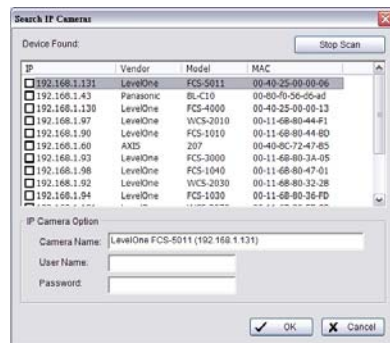
**Note:** Search function just support the IP cameras with UPnP supported.

**Step 6:** Select one of the IP cameras that are available; check the option and enter the username and password.



Step 5 Step 8

Step 12



## Quick Start

**Step 7:** Click OK to add the camera.

**Step 8:** Click "Insert" to insert the IP cameras.

**Step 9:** Enter the IP address or domain name (check the "Use DNS" option), Http Port, Username, and Password.

**Step 10:** Click "Auto Detect"

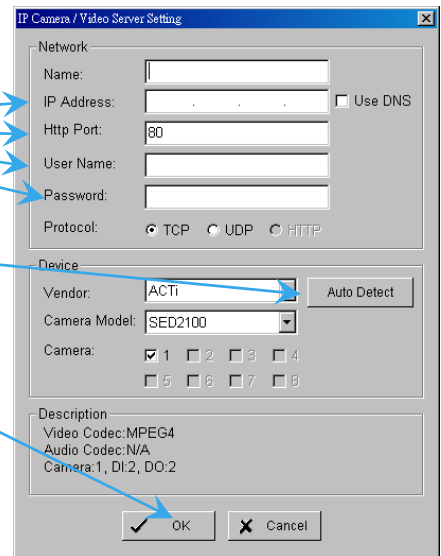
**Step 11:** Click OK to add the camera.

**Step 12:** Click OK to exit the Setting panel.

**Step 9**

**Step 10**

**Step 11**



## SET SCHEDULE

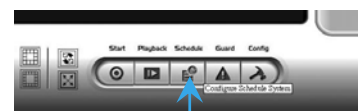
**Step 1:** Go to Start > All Programs > NUUO > Main Console.

**Step 2:** Type in user name and password and log on to the system.

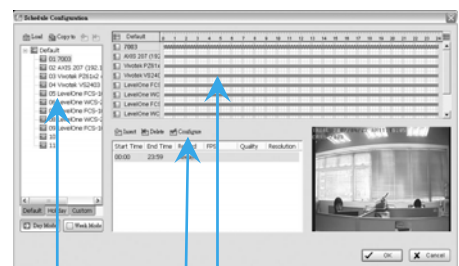
**Step 3:** In the Main Console, go to Schedule.

**Step 4:** By default, when inserting a camera to the system, the recording schedule is automatically set to be 24 hours a day, always record.

**Step 5:** Click Configure on the selected camera schedule or double click



**Step 3**



**Step 4**

**Step 5**

### Quick Start

on any schedule bar to modify the recording mode.

**Step 6:** When satisfied with the schedule setting, click OK to update the recording schedule.

**Step 7:** Click OK again to go back to the Main Console.

### SET SMART GUARD

**Step 1:** Go to Start > All Programs > NUUO > Main Console.

**Step 2:** Type in user name and password and log on to the system.

**Step 3:** In the Main Console, go to Guard.

**Step 4:** Select a camera and then click on "Insert Event."

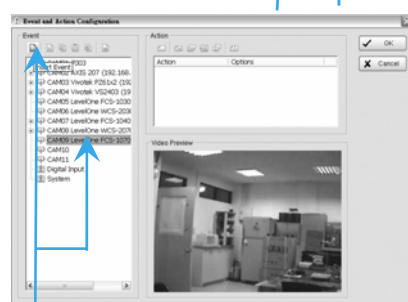
**Step 5:** Select General Motion as the event type, click OK.

**Step 6:** In the Alarm Event Configuration panel, set the detection zone as all, and then click OK to exit the panel.

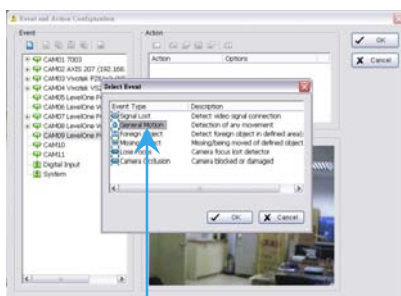
**Step 7:** Click OK to go back to the Main Console.



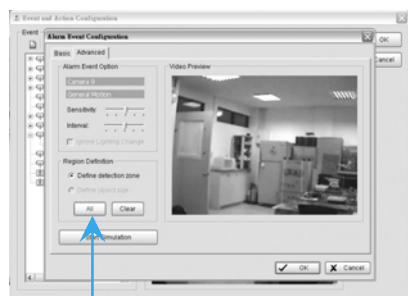
Step 3



Step 4



Step 5



Step 6

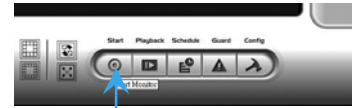
### START RECORDING & SMART GUARD

**Step 1:** Go to Start > All Programs > NUUO > Main Console.

**Step 2:** Type in user name and password and log on to the system.

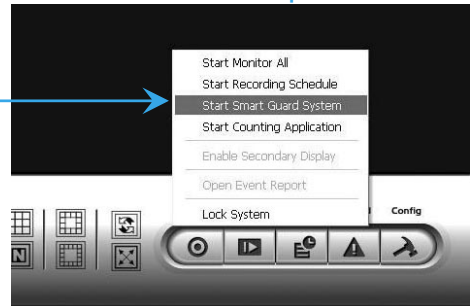
## Quick Start

**Step 3:** In the Main Console, go to Start.



**Step 4:** Click on "Start Recording Schedule" and "Start Smart Guard System" to initiate the two functions.

**Step 4**



## PLAYBACK

**Step 1:** Go to Start > All Programs > NUUO > Main Console.

**Step 2:** Type in user name and password and log on to the system.

**Step 3:** In the Main Console, go to Playback.



**Step 4:** In the Playback window, click on the Open Record Icon.

**Step 3**

**Step 5:**  
In the time table, recorded files are displayed in color bars. Highlight any color bars to select playback section. Click OK to return to Playback Console.

**Step 6:**  
The recorded files are ready to view now.



**Step 5**

**Step 4**

## 1. Main Console

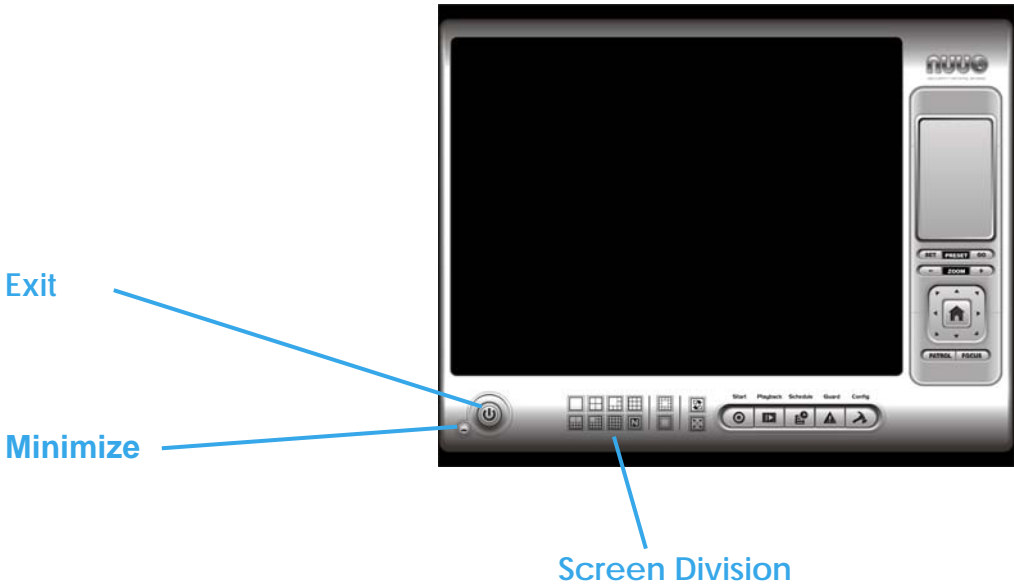
# 1. Main Console



This is the main operation system - to activate, schedule recording, setup smart guard and configure system setting.

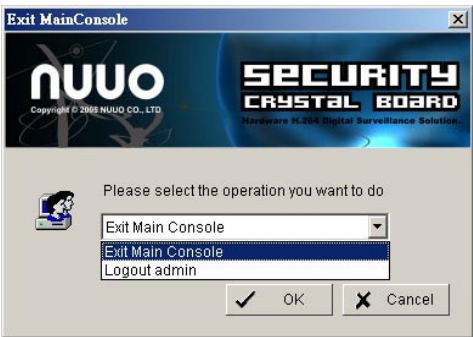


# 1. Main Console

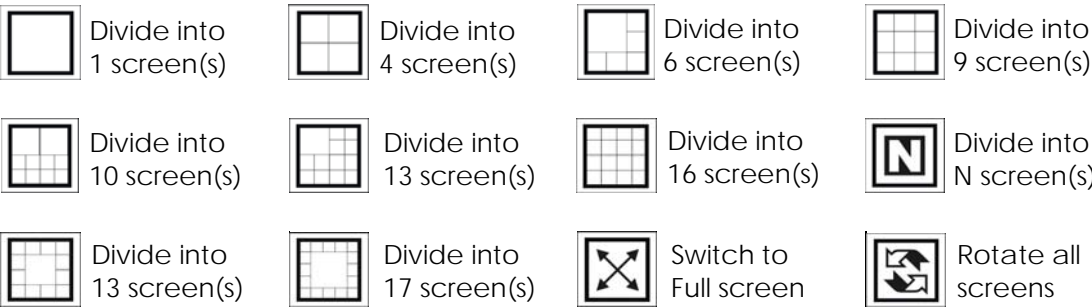


**EXIT:** Shut down the Surveillance System or log out current user.

**MINIMIZE:** Minimize the Main Console window.

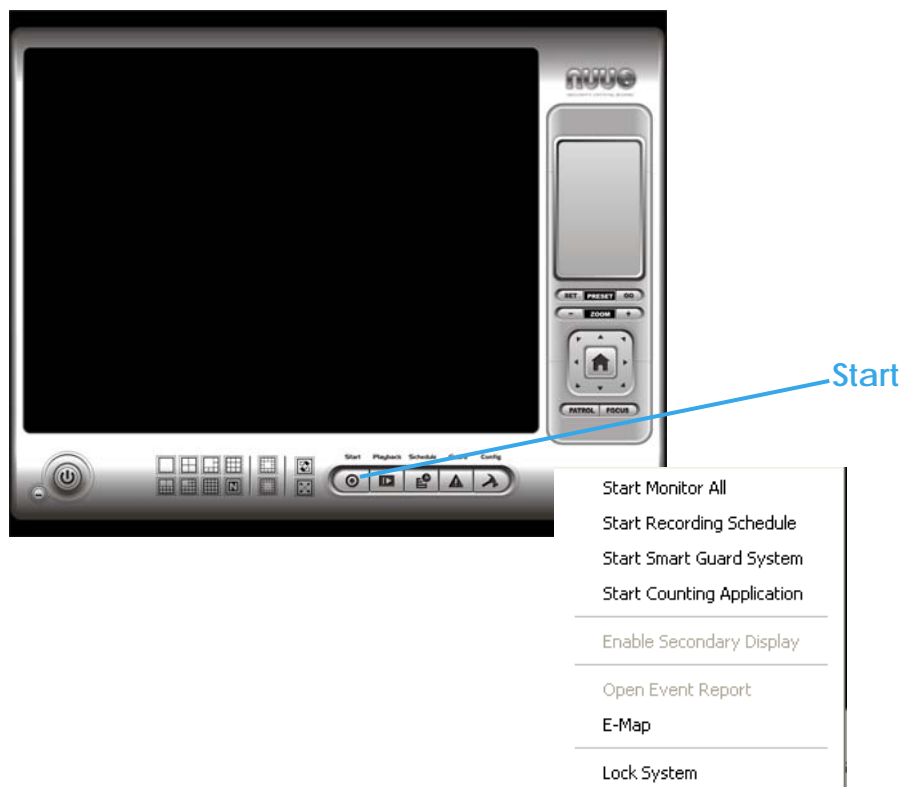


**SCREEN DIVISION:** Allocate the sub-screen display by clicking on the desired layout icon. To switch to single camera display, double click on a particular sub-screen. Double click on the screen again to regain previous screen division layout.



### 1. Main Console

#### 1.1 Start



**START:** Click on the Start icon and select from the drop down menu to activate/ deactivate: (a) Recording Schedule System, (b) Smart Guard System, or (c) Counting Application. Select Start/Stop Monitor All to activate/ deactivate all the functions at once.

You may also enable secondary display, open event report, open E-map window and lock the system here. See page 81 for more details about secondary display.

**Note:** When activating any of the monitor functions, system considers the current screen status as normal. Therefore, if you want to, for example, detect Missing Object, be sure the object needed to be protected is in its position at the moment you click Start button.

## 1. Main Console



Playback

Schedule

Guard

Config

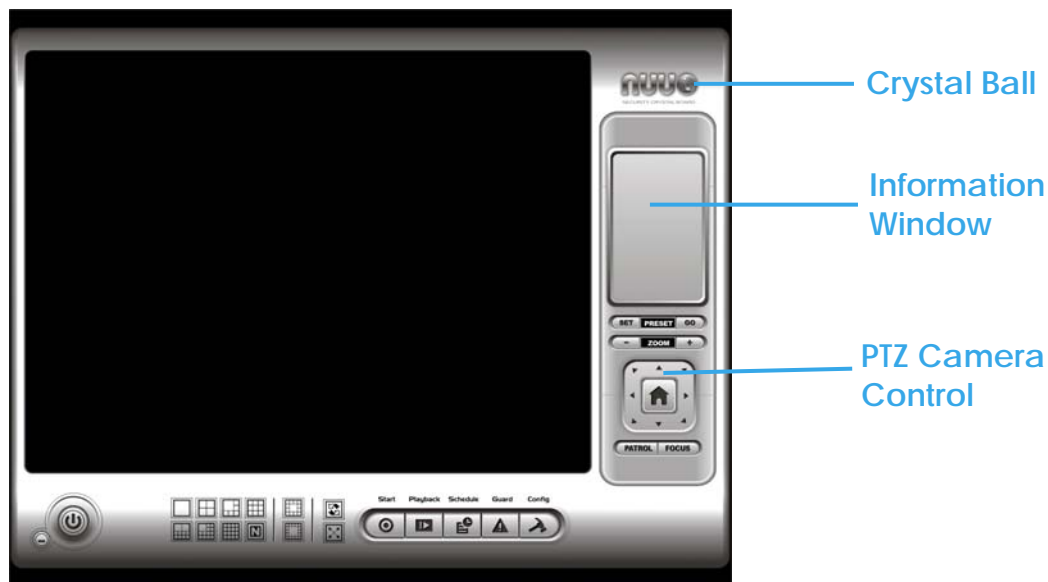
**PLAYBACK:** Click on the icon to get Playback Console. You can watch recorded video, search recorded video, adjust image of the stored data, save video/ pictures, print images, check log information and event records, and set up recording function configuration. See Playback on page 23 for detail.

**SCHEDULE:** Organize recording time schedule and setup recorder configuration. See Schedule on page 42 for detail.

**GUARD:** Add/edit type(s) of events that you want to detect; setup reaction(s) responding to events. See Guard on page 50 for detail.

**CONFIG:** Select from the drop down menu to modify general setting, save/ load configuration settings, start counting application, start POS application, access log viewer and backup files, or setup network services. See Config on page 69 for detail.

### 1. Main Console



**1.2 Crystal Ball:** Indicate the working status of the system. Gray – at rest, Blue - recording, and Red – events detected. When the crystal ball is red, click it to cancel the event(s).

**1.3 Information Window:** Display date, time, free HD space, CPU temperature, fan speed, and customized text. To customize Information about window's setting, go to Config > General Setting > General

**1.4 PTZ Camera Control:** Control the movement of PTZ cameras. With cameras that support PTZ control, you can move, zoom, patrol, adjust the focus, and set preset points of the cameras.

**1.4.1 Preset/ Go:** Adjust the camera view until you are satisfied. Click on the Set icon and set up the view as the preset point 01. Adjust the camera view again and set up the preset point 02. Repeat the process until finish setting up all preset points. You can enter any names you like to instead of the preset point 01, preset point 02, preset point 03,...

Click on the Go icon and view the result of your setting.

**1.4.2 Zoom:** Click on the + and – signs to zoom in and zoom out the view.

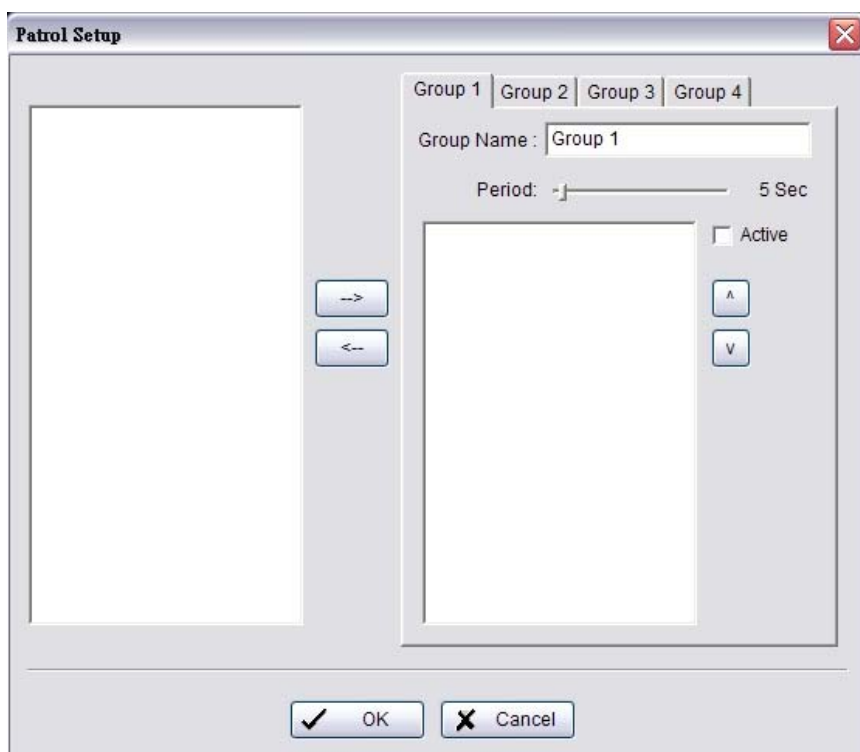
## 1. Main Console

**1.4.3 Focus:** You can select to have the camera focused near or far. To focus near means objects that are closer will be clearer than the objects that are further away. On contrast, to focus far means objects that are further will be clearer than the objects that are closer.

Click on the Focus icon and select auto focus if you want the system to decide the focus point for you.

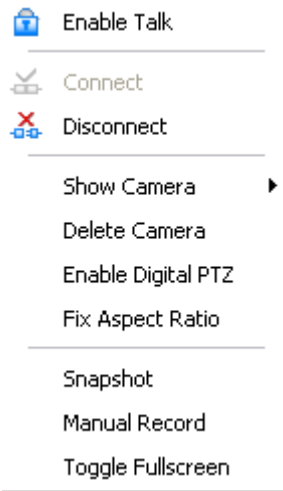
**1.4.4 Patrol:** Go to Patrol > Set Patrol to obtain the Patrol Setup dialog. From the left window, select the cameras that you would like to have in the patrol group. Align the cameras in order in the right window and adjust the time. Rename the group name if you want. After completing the setup, check the Active option, and then click OK.

You can setup up to four groups of auto patrol. To start or stop, click on the Patrol icon in the Main Console, and select Start Patrol or Stop Patrol.



## 1. Main Console

### 1.5 On Screen Menu



Right click on the camera screen and get the On Screen Menu, from which you can [enable move](#), [enable digital PTZ](#), and [connect/ disconnect](#) the camera.

**1.5.1 Enable Move:** With cameras that support PT function, by selecting the enable move function, you may adjust the camera’s view by clicking on the display screen. To cancel this function, right click on the screen and select [Disable Move](#).

*Note:* You can only work on current camera after clicking [Enable Move](#).

**1.5.2 Enable Talk:** With cameras that support two-way audio, you may select enable talk to utilize the function.

**1.5.3 Connect/ Disconnect:** Right click on the display screen and select Connect/ Disconnect to modify the connecting status of the camera.

**1.5.4 Show Camera:** Select the camera to be displayed from the Show Camera Menu.

**1.5.5 Delete Camera:** Click on Delete Camera to remove a camera from the display screen. This does not delete the camera from the setting list.

**1.5.6 Enable Digital PTZ:** To enable the PTZ functions of the camera, select the Enable digital PTZ option. When enable digital PTZ, we can use mouse wheel to zoom in and zoom out on the camera.

*Note:* [Enable Digital PTZ](#) is the option function in IP+ software not in IP software

**1.5.7 Fix Aspect Ratio:** For some special camera resolution, user can enable Fix Aspect Ratio to view original ratio video, or disable this option to stretch 3:4 to fit window.

**1.5.8 Snapshot:** Select the snapshot function to capture a specific video image immediately. You have the options to copy the image to the clipboard or to save it.

## 1. Main Console

**1.5.9 Manual Record:** Start recording video by selecting manual record.

**1.5.10 Toggle Full Screen:** To view a specific channel with full screen.

## 2. Playback

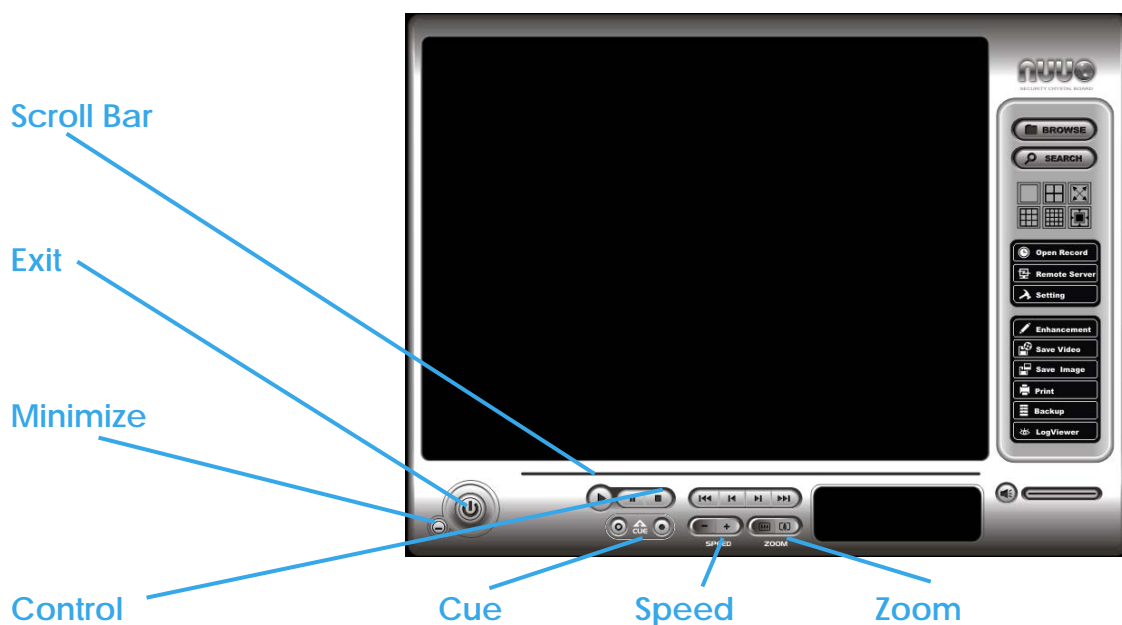
# 2. Playback



Watch the recorded video, view and/or search for unusual events and recorded system information.



## 2. Playback



**MINIMIZE:** Minimize the Playback console.

**EXIT:** Shut down the Playback console.

**SCROLL BAR:** Indicate the status of the playing video; drag it to where you want to review.

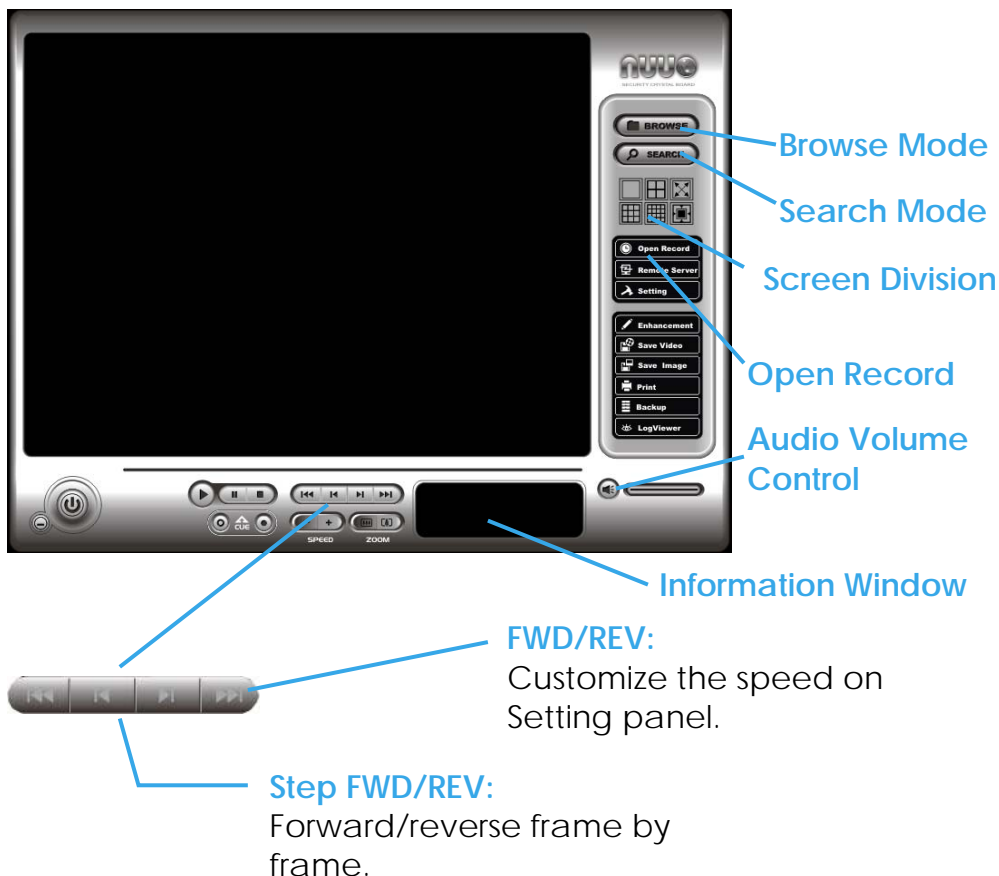
**CONTROL:** Play, pause and stop the video.

**CUE:** When playing video, click on the Cue In/ Cue Out icon at where you want to set as the starting/ ending point of a saved video clip. The Cue In and Cue Out time will be displayed on the Playback Information Window once they are set.

**SPEED:** Control the speed of the playing video. Click + to speed up and - to speed down.

**ZOOM:** Zoom in and zoom out. Get a close up view of the recorded video; move to the spot you want to view by dragging the screen.

### 2. Playback



**2.1 Information Window:** Display video date and time, current video status, cue in/ out points' time, and speed.

**2.2 Audio Volume Control:** Adjust the sound level.

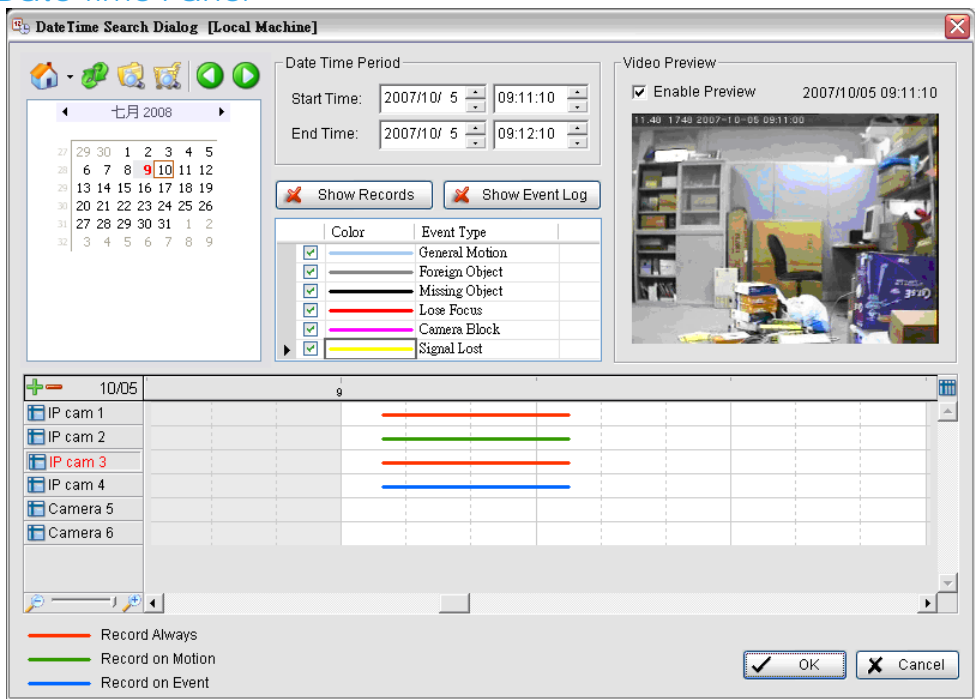
**2.3 Screen Division:** Allocate the sub-screen display by clicking on the desired layout icon. To switch to single camera display, double click on a particular sub-screen. Double click on the screen again to regain previous screen division layout.

**2.4 Browse Mode:** Play the recorded video.


**2.5 Open Record:** Click on Open Record button to access the Date-Time Panel and withdraw the video record that you want to review.






## 2. Playback

### 2.5.1 Date Time Panel



**2.5.2 Record Display Window:** The record display window shows the information of the available video clips. It may show in calendar or list control view. For further details about how to modify the record display window view, see page 39.

Click on the  icon on the top of the display window to obtain the Remote Playback Site Management dialog. You may select to access local machine or set up remote playback server. See page 41 for more details about setting up the remote playback server.

Click on the  icon to refresh the record display window, click on the  icon to access the log viewer dialog, or click on the  icon to access the POS Search dialog. See Page 35 for more details about the log viewer dialog. Additionally, utilize the   icons to go to previous and next recording Date.




**2.5.3 Date Time Period:** Select the start and end time points that indicate the time period you would like to view.

2. Playback

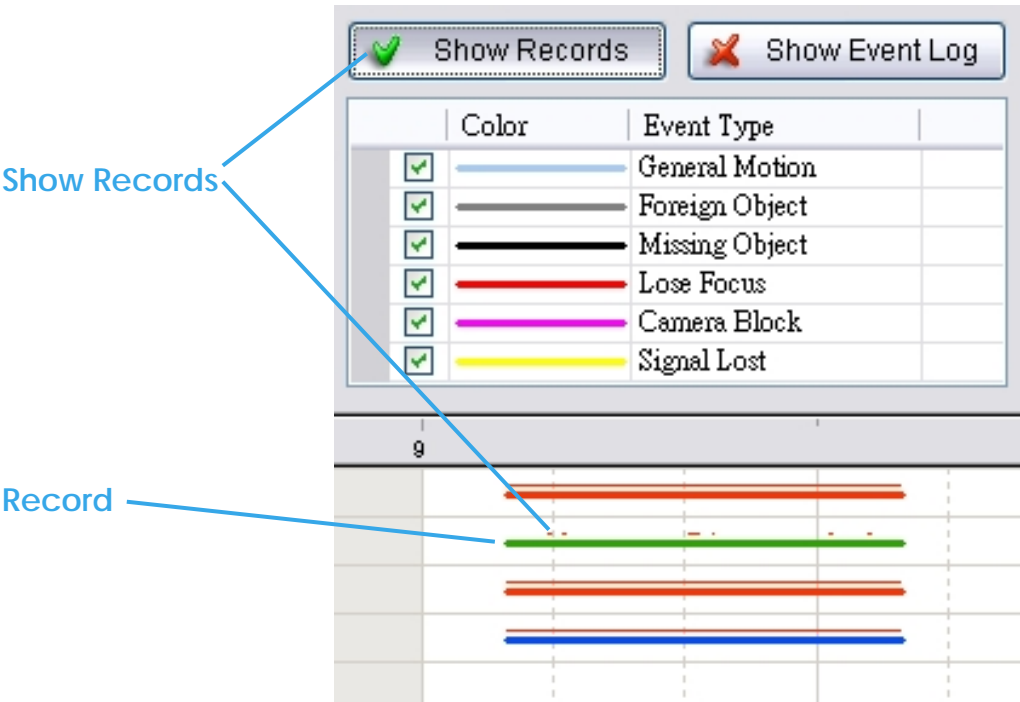
2.5.4 Video Preview: Check the enable preview option to view the selected video.

2.5.5 Event Type: There are 6 event types; see Chapter 4 Guard for details. You may set up different colors for different event types to help you select events.

2.5.6 Time Table:

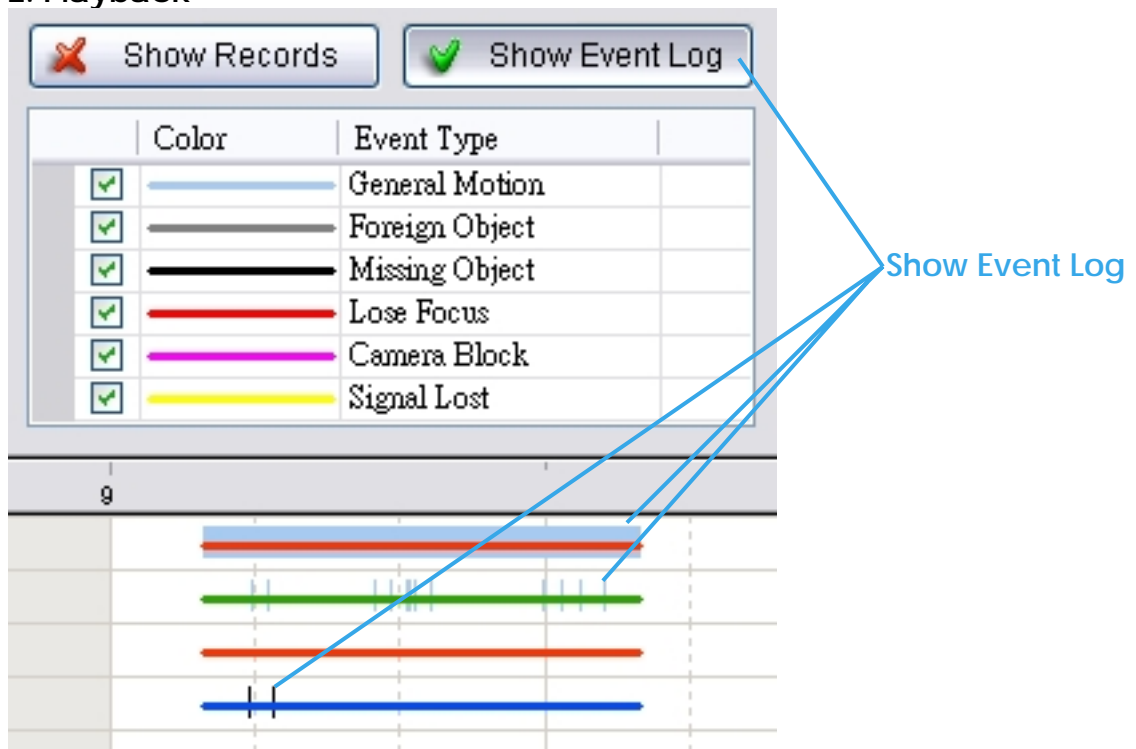
Utilize the  icon to select all channels; also utilize the  icon to deselect all channels. Finally, utilize the scale bar  to modify the scale of the time table.

To pressure the button “Show Records” makes Time Table show the period of recording data like below:



To pressure the button “Show Event Log” makes Time Table show the time of event detection like below:

## 2. Playback



### 2.5.7 To Withdraw the Record:

**Step 1:** From the record display window at the top left of the Date Time Panel, select the date you want to withdraw the record from. The red/green/blue lines shown on the time table indicate available recorded video records.

**Note:** The record display window can be shown in (a) calendar view or (b) list control view. To modify the setting of the record display window, click on the Setting button at the right of the Playback Console. See page 39 for more details.

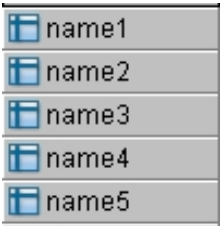
**Step 2:** Use color bars to differentiate event types from each other. This will help you select video clips.

**Step 3:** Highlight the video clip you want to review by left-clicking and dragging the time period. You may also utilize the Start Time and End Time in Date Time Period Section. In addition, modify the scale of the time table with the + and – signs on the bottom left.

2. Playback

**Step 4:** Check the Enable Preview option to get the preview of the video you select.

**Step 5:** Click the camera name to increase or decrease cameras you want to playback.



**Step 6:** Click OK when completing the setting.

**2.6 Search Mode:** Click on the Search Mode icon to obtain the Intelligent Search Tool panel. You can setup unusual events here to detect abnormality occurred during the recoding period.

**Intelligent Search Tool Panel:** Click on the Search Mode icon and get the Intelligent Search Tool panel. Set up unusual events here to detect abnormality that occurred during the recording period.

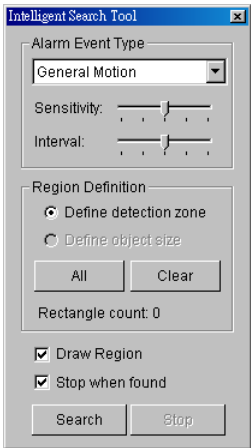
There are 5 types of unusual events: General Motion, Foreign Object, Missing Object, Lose Focus, and Camera Occlusion.

2.6.1 Unusual Event-General Motion

**General Motion:** Detect all movements in the defined area.

**Define Detection Zone:** Left click and drag to draw detection zone. You may define more than one zone on the screen by repeating the process.

**Sensitivity:** Modify the sensitivity setting by changing the slider control. Move toward right will increase the sensitivity level, which means a relatively small movement will trigger the alarm; in contrast, move the slider control toward left will reduce the sensitivity for movement detection.



a

Set up an appropriate sensitivity level reduces the frequency of false alarm. For instance, you can lower the sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.

## 2. Playback

**Interval:** Move the slider control to the **right to increase** time interval so that the alarm will only be triggered when the movement lasts longer. Move to the **left to reduce** the time interval.

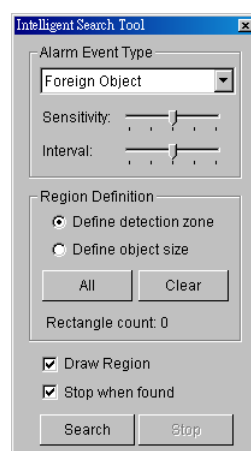
**Stop When Found:** Check the option to have the video stopped when detecting motion in the detection zone. Uncheck the option to have video kept rolling, and all detected events will show on the list in search result box. Click on the listed event in the box to jump to the point in the video where a motion is detected.

### 2.6.2 Unusual Event-Foreign Object

**Foreign Object:** Alarm is set off when any additional object appears in the defined area on the screen.

**Define detection zone:** Before detecting foreign object, it is required to define a detection area. In order to do so, left click and drag on the screen. Alarm will be triggered when any additional object appears in the detection zone.

**Define object size:** Drag and draw on the screen to define the size of a foreign object.



**Sensitivity:** Modify the sensitivity setting by changing the slider control. Move toward right will increase the sensitivity level, which means a relatively small movement will trigger the alarm; in contrast, move the slider control toward left will reduce the sensitivity for movement detection.

**Interval:** Click and move the slider control to the **right to increase** time interval so that the alarm will only be triggered when the object has been removed from the area for longer. Move to the **left to reduce** the time interval.

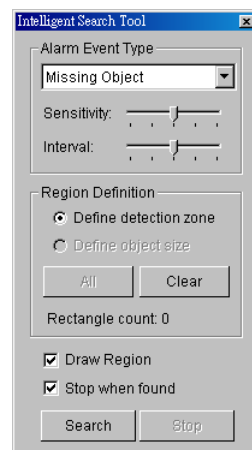
Set up an appropriate Interval value will reduce the chance of false alarm. For example, you can lower the Interval to avoid the alarm being triggered by a pedestrian.

### 2. Playback

#### 2.6.3 Unusual Event-Missing Object

**Missing Object:** Alarm is set off when the selected object is removed from the defined area on the screen.

**Define detection zone:** Before detecting missing object, it is required to define a detection zone. Left click and drag to draw a detection zone. Alarm will be triggered when the defined object is removed from the detection zone.



**Define object size:** This tells the System how big the defined object is. Drag and draw a square that is about the same size as the object that you want to protect on the screen.

**Sensitivity:** Modify the sensitivity setting by changing the slider control. Move toward right will increase the sensitivity level and a relatively small movement will trigger the alarm; in contrast, move the slider control toward left will reduce the sensitivity for movement detection.

**Interval:** Click and move the slider control to the **right to increase** time interval so that the alarm will only be triggered when the movement lasts longer. Move to the **left to reduce** the time interval.

#### 2.6.4 Unusual Event-Lose Focus/ Camera Occlusion

**Lose Focus:** System will inform you when the camera(s) lose its focus.

**Camera Occlusion:** Alarms when any of the cameras is blocked.

### 2.7 Enhancement

**2.7.1 General Setting:** Check the option and chose whether you want to apply the setting to all the channels or only to those currently shown on the screen.

#### 2.7.2 Filter Setting



## 2. Playback

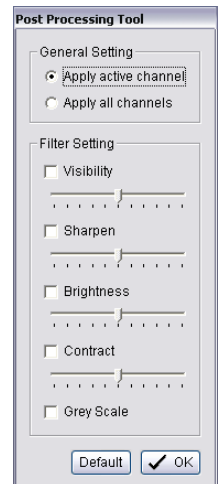
**Visibility:** Check the option and adjust the gamma value of the image to enhance the image and make it cleaner.

**Sharpen:** Check the option to activate the function. Move the slider control to the right to sharpen the image, to the left to soften it.

**Brightness:** Check the option to activate the function. Move the slider control to the right to make the image brighter.

**Contrast:** Check the option to activate the function. Move the slider control to the **right to increase** contrast.

**Grey Scale:** Check the option to show the record in grey scale mode so the image displays in black and white.



### 2.8 Save Video

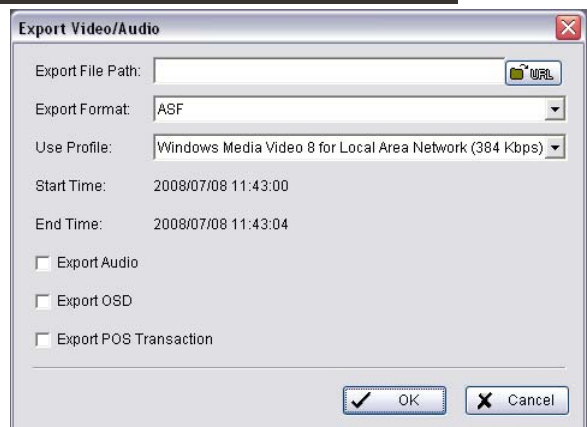
**Step 1:** Click on the display screen to choose the camera display that you want to save as a video clip.

**Step 2:** Set up the cue in and cue out points; the cue in and cue out time will show on the information window.



**Step 3:** Click Save Video icon, choose the folder where you want to save the file at, enter the file name and click SAVE.

**Step 4:** Set the Export Format as ASF or AVI (ASF recommend) and set the Use Profile.



### 2. Playback

**Step 5:** You may export (i.e. save) the record with both audio and video or video only.

**Step 6:** Click OK to save the video.

### 2.9 Save Image

**Step 1:** Click on the display screen to choose the camera display from which you want to save pictures.

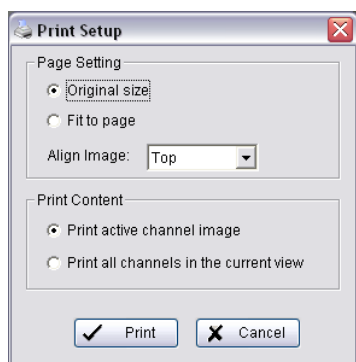
**Step 2:** Click Save Image button when the image you want is shown on the screen. You may click Pause to freeze the video, use Step Forward/ Step Backward function to find the picture(s) that you want to save.

**Step 3:** Choose the folder and the format of image (BMP or JPEG) you prefer and then click save.

**Note:** You may skip step 3 by pre-setting a folder and format that you want to save the images (refer the section **Automatically save the image file**)

### 2.10 Print

Print the current image of the video you choose.



**Print in original size:** Select to have the image print in original size.

**Fit the page:** Select to have the image fit the page.

**Align Image:** Top, Center, or Bottom

**Print Content:** Print the image from currently selected channel or all the channels shown on the screen.

## 2. Playback

### 2.11 Backup

Different from Save Video, the Backup function saves everything from the Playback panel, including log information.

You can start a full function Playback Console and load the backup files into it on any PC with Windows operating system. This means you may monitor the real time video and work on the backup files on separate computers simultaneously.

**Step 1:** Press the "Open Record" to select data and press "Backup".

**Step 2:** You can adjust the Start Time and End Time you want to backup.

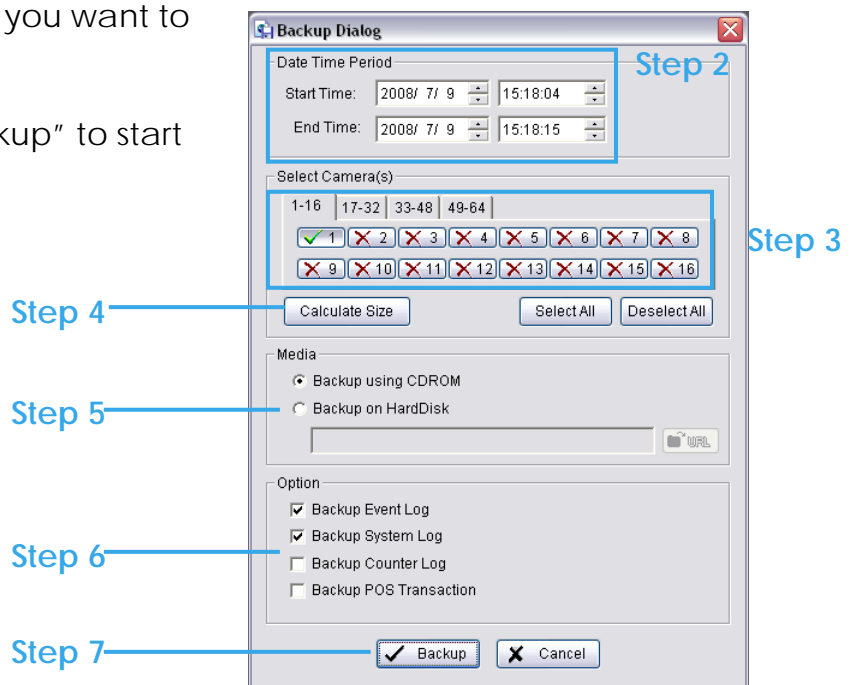
**Step 3:** You can adjust the Cameras you want to backup.

**Step 4:** You can calculate the size of the backup data.

**Step 5:** Select the directory you want to save the backup data.

**Step 6:** Check the log you want to backup.

**Step 7:** Press the "Backup" to start backing up.

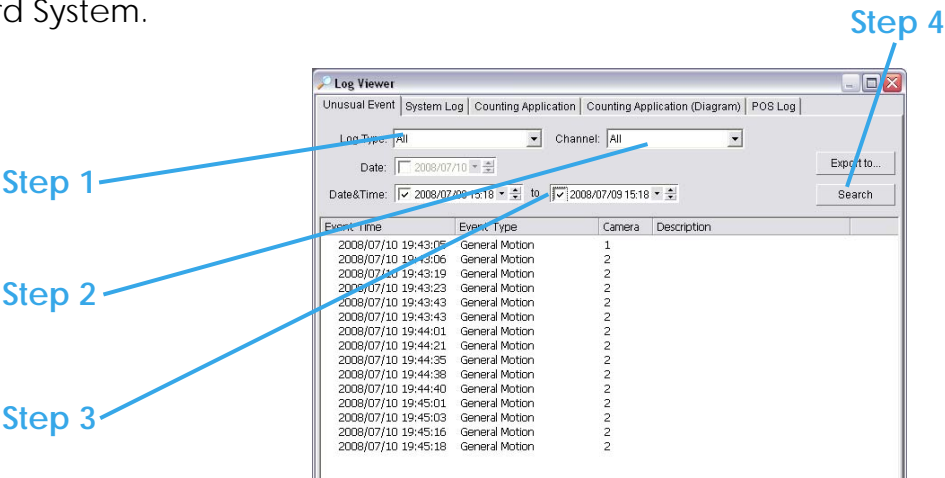


2. Playback

2.12 Log Viewer

2.12.1 Unusual Event:

View the unusual event history that had been detected by the Smart Guard System.



**Step1:** Choose the type of events you wish to view or select "All" from the drop-down menu to view all types of events.

**Step 2:** Choose the camera channel you wish to view or select "All" for all the channels available.


**Step 3:** You can either view the events that happened on a particular date or during a given time period. To search and view unusual event on a particular date, check the option right next to "Date" and select a specific date.

You may also point out two different time points and search for unusual event happened during the period. Check the options in the Date & Time columns and enter the date and time.

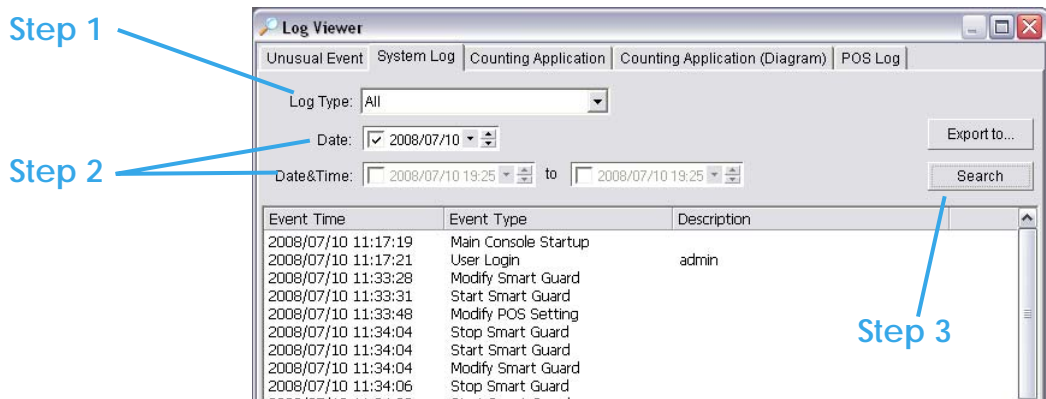
**Step 4:** Click Search

**Note:** When working with a video record,  
1. Log Viewer will search for Unusual Event in the video record in Date & Time mode, start from the beginning to the end of the record, which is the default setting of the system.

## 2. Playback

2. A link () will appear right next to each event time. By clicking on the link, the video will jump to the point where the unusual event takes place.

**2.12.2 System Log:** Select **Log Type** form the drop-down menu. There are total 22 types of log types, including:



- |                                 |                                   |
|---------------------------------|-----------------------------------|
| 1. Main Console Startup         | 16. Stop Live Streaming Server    |
| 2. Main Console Shutdown        | 17. Modify Live Streaming Server  |
| 3. User Login                   | 18. Start Remote Playback Server  |
| 4. User Login Failed            | 19. Stop Remote Playback Server   |
| 5. Start Schedule               | 20. Modify Remote Playback Server |
| 6. Stop Schedule                | 21. IP Camera Connection Lost     |
| 7. Execute Recycle              | 22. Auto Restart Windows          |
| 8. Enable Channel               | 23. Modify POS Setting            |
| 9. Disable Channel              | 24. POS Connection Lost           |
| 10. Start Smart Guard           | 25. Modify E-Map                  |
| 11. Stop Smart Guard            | 26. Start Remote Desktop          |
| 12. Modify Smart Guard          | 27. Stop Remote Desktop           |
| 13. Modify Schedule             | 28. Modify Remote Desktop         |
| 14. Modify Configuration        | 29. Start Central Management      |
| 15. Start Live Streaming Server | 30. Stop Central Management       |
|                                 | 31. Modify Central Management     |

**Step1:** Choose the type of event you wish the check or select "All" from the drop-down menu and view all types of events.

**Step 2:** You can either view the events that happened on a particular date or during a given time period. To search and view unusual event on a particular date, check the option right next to "Date" and select a specific date.

2. Playback

You may also point out two different time points and search for unusual event happened during the period. Check the options in the Date &Time columns and enter the date and time.

Step 3: Click **Search**.

2.12.3 Counting Application

You can see the results of Counting Application during the time period you set.

Log Viewer

Unusual Event

System Log

Counting Application

Counting Application (Diagram)

POS Log

Channel: All

Date: 2007/09/26

Date&Time: 2007/09/26 13:31 to 2007/09/26 13:31

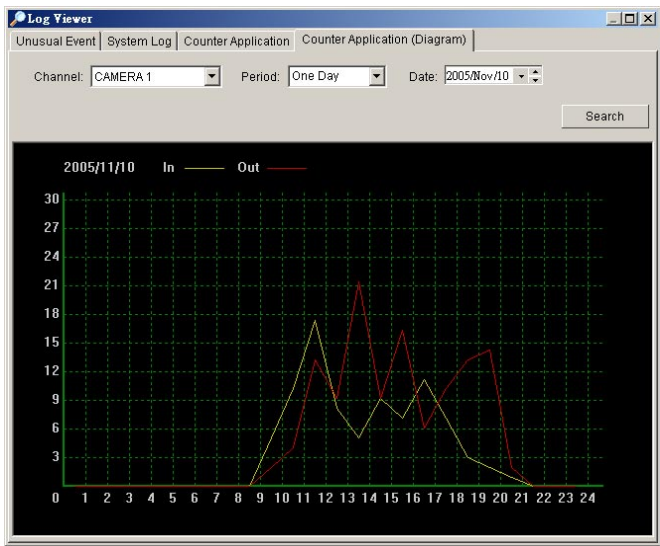
Export to...

Search

Event Time	Channel	In	Out
2007/07/25 19:00:00	Camera 3	14	13
2007/07/25 19:30:00	Camera 3	0	4
2007/07/25 19:32:42	Camera 3	0	0
2007/07/27 11:30:00	Camera 3	4	2
2007/07/27 12:00:00	Camera 3	5	6
2007/07/27 12:30:00	Camera 3	4	4
2007/07/27 12:32:15	Camera 3	0	0
2007/09/26 13:29:49	Camera 1	0	0

2.12.4 Counting Application (Diagram)

The Counting Application result data will show in a diagram.



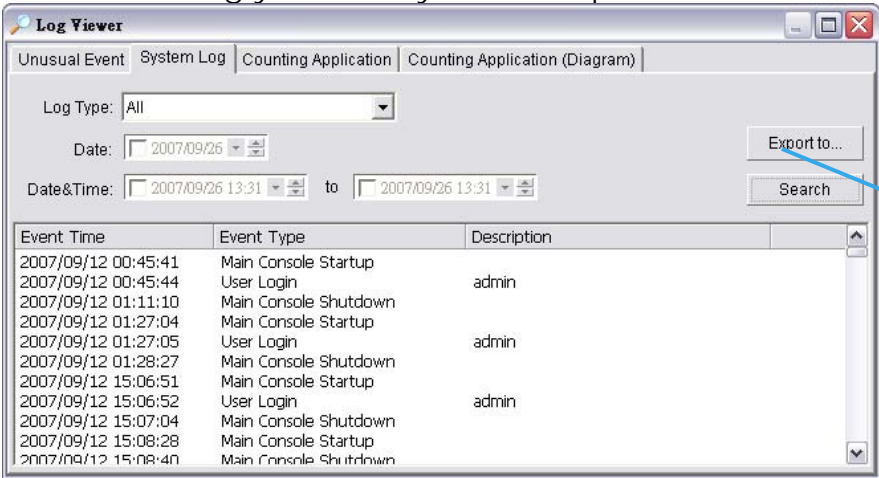
2. Playback

2.12.5 POS Log

View the POS Log history that had been detected by the Smart Guard System, include Transaction Start, Transaction End, Open Cash Register, Connection Lost, and special User defined event. Please refer the User manual of POS for detail.

2.12.6 Export

After search the log you want, you can export to .xls or .txt file.



Step1: Press the button “Export to”.

Step2: Type the file name and choose the file format (.xls or .txt).

D1		A			
		A	B	C	D
1	EventTime	EventTime	EventTime	Description	
2	2007/09/12 00:45:41	2007/09/12 00:45:41	Main Console Startup		
3	2007/09/12 00:45:44	2007/09/12 00:45:44	User Login	admin	
4	2007/09/12 01:11:10	2007/09/12 01:11:10	Main Console Shutdown		
5	2007/09/12 01:27:04	2007/09/12 01:27:04	Main Console Startup		
6	2007/09/12 01:27:05	2007/09/12 01:27:05	User Login	admin	
7	2007/09/12 01:28:27	2007/09/12 01:28:27	Main Console Shutdown		
8	2007/09/12 15:06:51	2007/09/12 15:06:51	Main Console Startup		
9	2007/09/12 15:06:52	2007/09/12 15:06:52	User Login	admin	
10	2007/09/12 15:07:04	2007/09/12 15:07:04	Main Console Shutdown		
11	2007/09/12 15:08:28	2007/09/12 15:08:28	Main Console Startup		
12	2007/09/12 15:08:40	2007/09/12 15:08:40	Main Console Shutdown		
13	2007/09/12 15:08:54	2007/09/12 15:08:54	Main Console Startup		
14	2007/09/12 15:09:01	2007/09/12 15:09:01	Main Console Shutdown		
15	2007/09/12 15:14:11	2007/09/12 15:14:11	Main Console Startup		
16	2007/09/12 15:14:12	2007/09/12 15:14:12	Main Console Shutdown		
17	2007/09/12 15:14:31	2007/09/12 15:14:31	Main Console Startup		
18	2007/09/12 15:15:20	2007/09/12 15:15:20	Main Console Shutdown		
19	2007/09/12 19:44:15	2007/09/12 19:44:15	Main Console Startup		
20	2007/09/12 19:44:58	2007/09/12 19:44:58	Main Console Shutdown		
21	2007/09/12 22:51:57	2007/09/12 22:51:57	Main Console Startup		
22	2007/09/12 22:51:59	2007/09/12 22:51:59	Main Console Shutdown		
23	2007/09/12 22:52:14	2007/09/12 22:52:14	Main Console Startup		
24	2007/09/12 22:52:18	2007/09/12 22:52:18	User Login	admin	
25	2007/09/12 22:52:24	2007/09/12 22:52:24	Main Console Shutdown		
26	2007/09/12 22:53:19	2007/09/12 22:53:19	Main Console Startup		

```
2007/09/12 00:45:41, Main Console Startup,
2007/09/12 00:45:44, User Login, admin
2007/09/12 01:11:10, Main Console Shutdown,
2007/09/12 01:27:04, Main Console Startup,
2007/09/12 01:27:05, User Login, admin
2007/09/12 01:28:27, Main Console Shutdown,
2007/09/12 15:06:51, Main Console Startup,
2007/09/12 15:06:52, User Login, admin
2007/09/12 15:07:04, Main Console Shutdown,
2007/09/12 15:08:28, Main Console Startup,
2007/09/12 15:08:40, Main Console Shutdown,
2007/09/12 15:08:54, Main Console Startup,
2007/09/12 15:09:01, Main Console Shutdown,
2007/09/12 15:14:11, Main Console Startup,
2007/09/12 15:14:12, Main Console Shutdown,
2007/09/12 15:14:31, Main Console Startup,
2007/09/12 15:15:20, Main Console Shutdown,
2007/09/12 19:44:15, Main Console Startup,
2007/09/12 19:44:58, Main Console Shutdown,
2007/09/12 22:51:57, Main Console Startup,
2007/09/12 22:51:59, Main Console Shutdown,
2007/09/12 22:52:14, Main Console Startup,
2007/09/12 22:52:18, User Login, admin
2007/09/12 22:52:24, Main Console Shutdown,
2007/09/12 22:53:19, Main Console Startup,
```

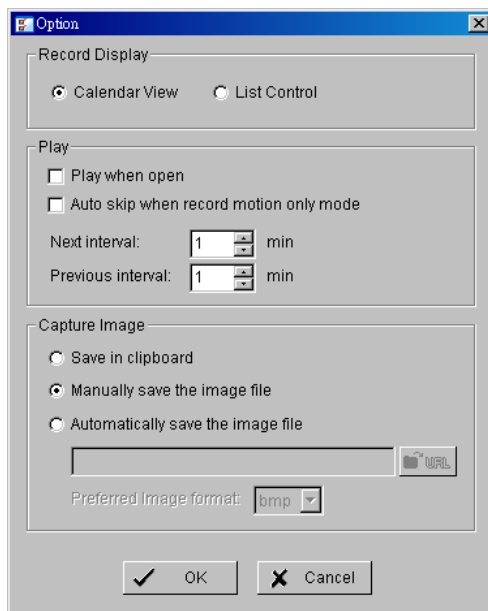
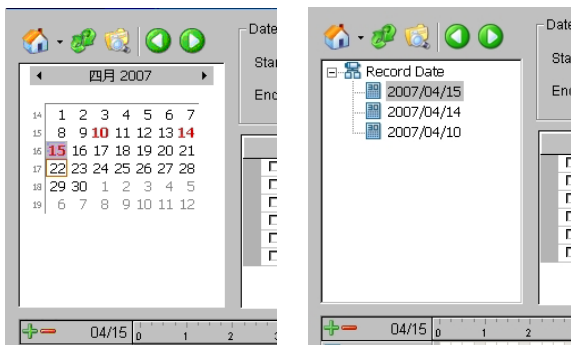
### 2. Playback

#### 2.13 Setting

##### 2.13.1 Record Display

**Calendar View:** Make the record display windows as calendar view.

**List Control:** Make the record display windows as list control.



##### 2.13.2 Play

**Play when open:** Check the option and set the system to start playing the video clip every time when a record is withdrew.

**Auto skip when record motion only mode:** Check the option to set up the system to automatically skip to the points where there were motions recorded.

**Next interval:** Set the interval with which the video goes forward when you click on the Next icon on the control panel.

**Previous interval:** Set the interval with which the video goes backward when you click on the Previous icon on the control panel.

##### 2.13.3 Capture Image: Setup how you want to save image.

**Save in clipboard:** The image will be saved in the clipboard and can be pasted on other application software.



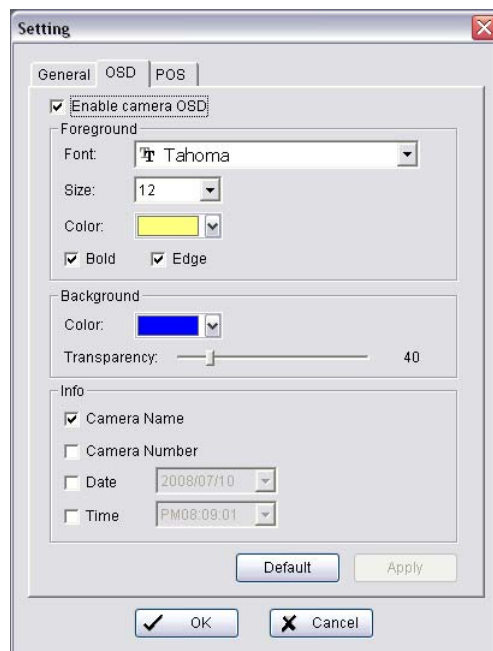
## 2. Playback

**Manually save the image file:** You can manually select where you want to save the image, name the saved file, and choose the format you want to save the image.

**Automatically save the image file:** By pre-setting a path/URL and the image format, the system will automatically save the image accordingly when you click the Save button in the control panel.

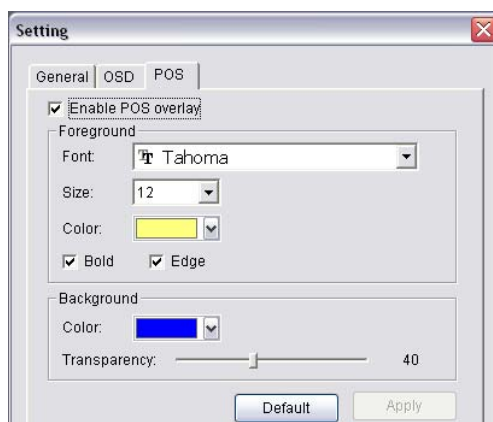
### 2.13.4 OSD Setting:

Enable Camera OSD to display video information on recording video, information includes camera name, camera number, date and time. User also can set up OSD font; include the font, size, font color and any font effects desired.



### 2.13.5 POS Overlay Setting:

Enable Camera OSD to display video information on recording video, information includes camera name, camera number, date and time. User also can set up OSD font; include the font, size, font color and any font effects desired. Setup how you want to save image.



2. Playback

2.14 Remote Server

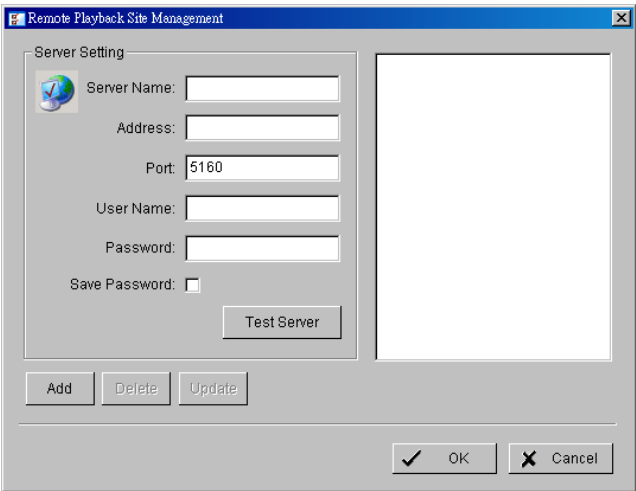
2.14.1 Add Remote Playback Site

Pressing the “Remote Sever” can go to remote playback site management to add and setup the remote playback site.


**Step 1:** Enter the IP address or DNS, Port, Username, and Password.

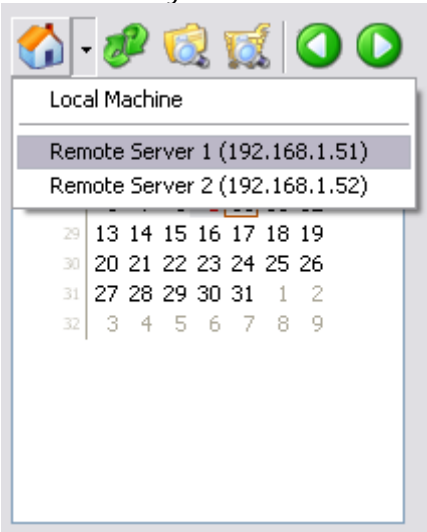
**Step 2:** Click “Add” to add the server.

**Step 3:** Click OK to exit the Setting panel.



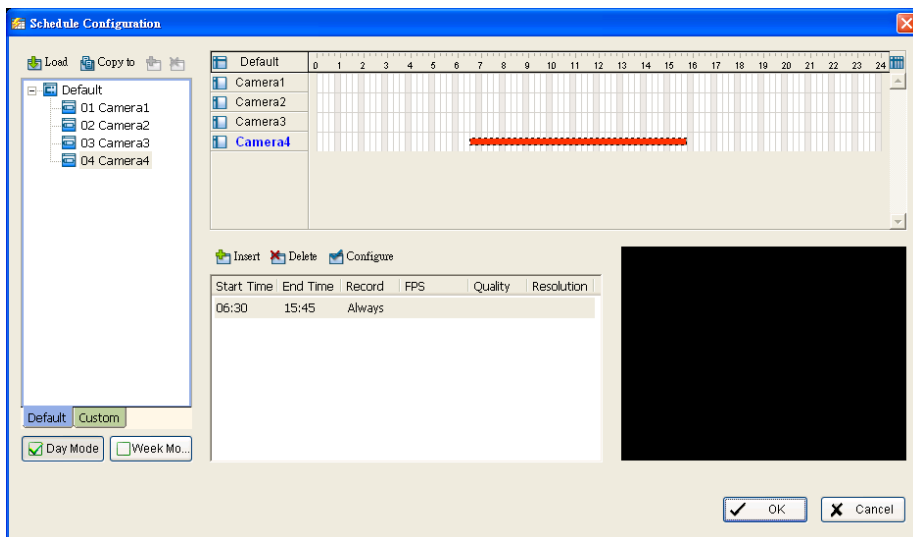
2.14.2 Access Remote Playback Site

Go to Date Time Panel and click on the  icon on the top of the display window to access the Remote Playback Site



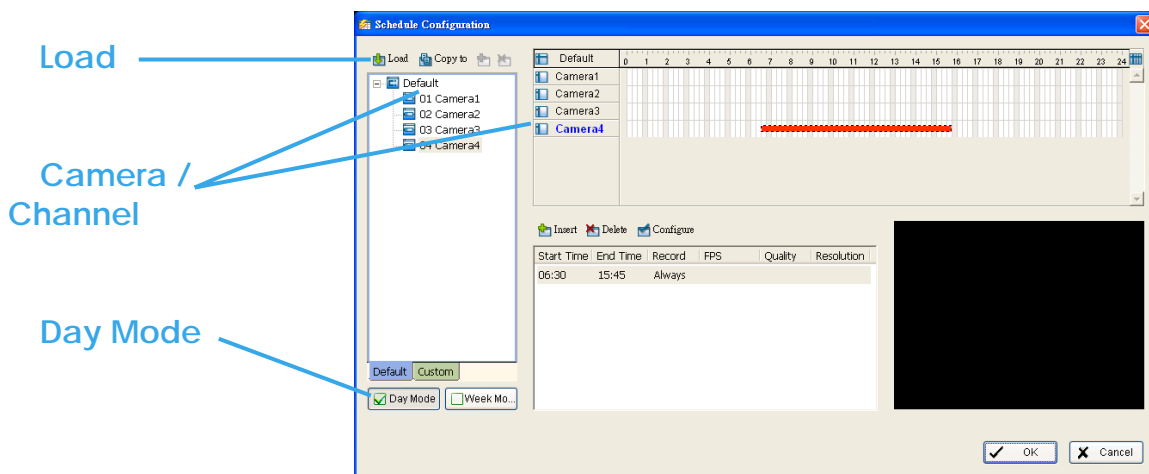
## 3. Schedule

# 3. Schedule



Click on the Schedule icon on the Main Console and set up the time duration for video recording on the schedule configuration panel.

### 3. Schedule



#### 3.1 Day Mode

Schedule the cameras to turn the recorder on and off at the same time every day according to your setting.

To setup the time schedule for each camera, you may

1. **Load** the preset modes or
2. **Insert** a new schedule manually

#### 3.2 Load Preset Modes

Click on the **Load** icon for the drop-down menu.

**Regular Mode:** Video recording 24 hours a day with the setting of 30 FPS (frames per second), Normal video quality and Normal resolution.

**Office Mode:** Video recording from 8 am to 8 pm (08:00 – 20:00, shown on the red bar in the Schedule Configuration panel) with 30 FPS, Normal video quality, and Normal resolution.

**Shop Mode:** Video recording from 10 am to 10 pm (10:00 – 22:00) with 30 FPS, Normal video quality, and Normal resolution.

**High Security Mode:** Video recording 24 hours a day with the setting of 30 FPS, the highest video quality, and High resolution.

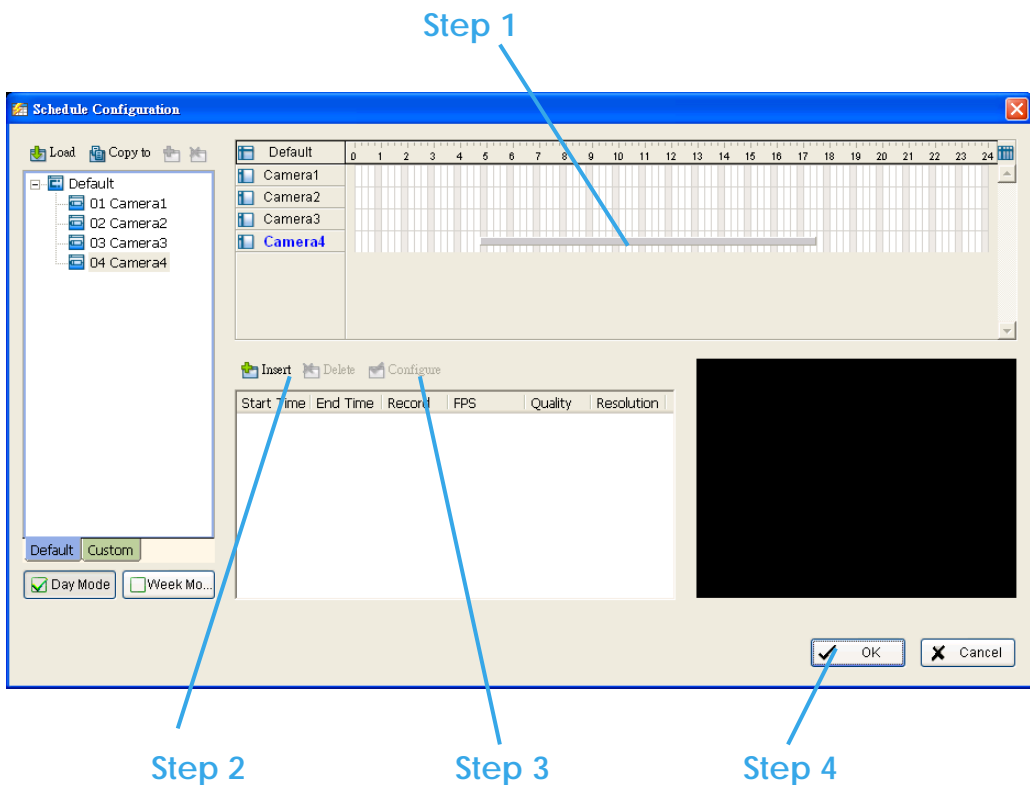
**Disk Saving Mode:** The system will start recording only when a motion is detected on the screen, 24 hours a day (shown on the green bar in the Schedule Configuration panel), with the setting of 30 FPS, Normal quality, and Normal resolution. You can adjust the sensitivity, interval, and area of motion detection in the Schedule Configuration.

### 3. Schedule

**Minor Mode:** The system will start recording only when a motion is detected on the screen, 24 hours a day (shown on the green bar in the Schedule Configuration panel), with the setting of 15 FPS, Low quality, and Low resolution. You can adjust the sensitivity, interval and area of motion detection in the Schedule Configuration.

#### 3.3 Insert a New Schedule Manually

**Step 1:** Left-click and draw the bar you want to the time table. The scheduled time will show as a grey bar.



**Step 2:** Click the **Insert** icon and add a new schedule in the Regular Mode, i.e. to record video during the time period you set with 30 FPS, Normal video quality, and Normal resolution.

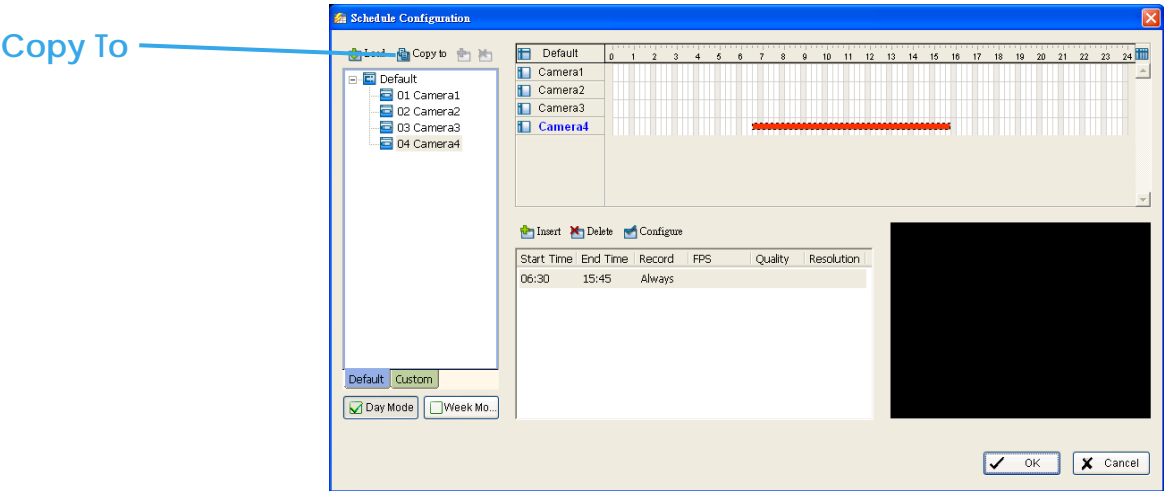
**Step 3:** Change the setting if wished by clicking on the **Configure** icon (See 3.7 Encoding Option Panel) or double click the **schedule information**.

3. Schedule

Step 4: Click OK.

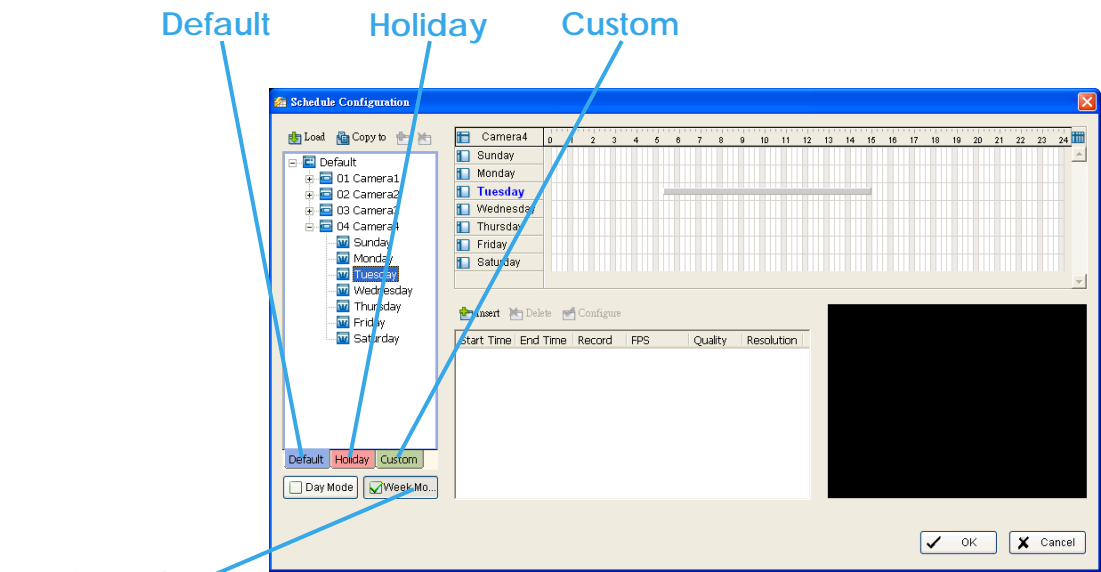
3.4 Copy Schedule

You may set up the schedule for each channel/camera by repeating the process above, or simply apply the setting of a single camera to all the others.



3.5 Week Mode

Schedule the cameras for each day of the week differently. In addition, you may assign extra holidays under the Week Mode.



### 3. Schedule

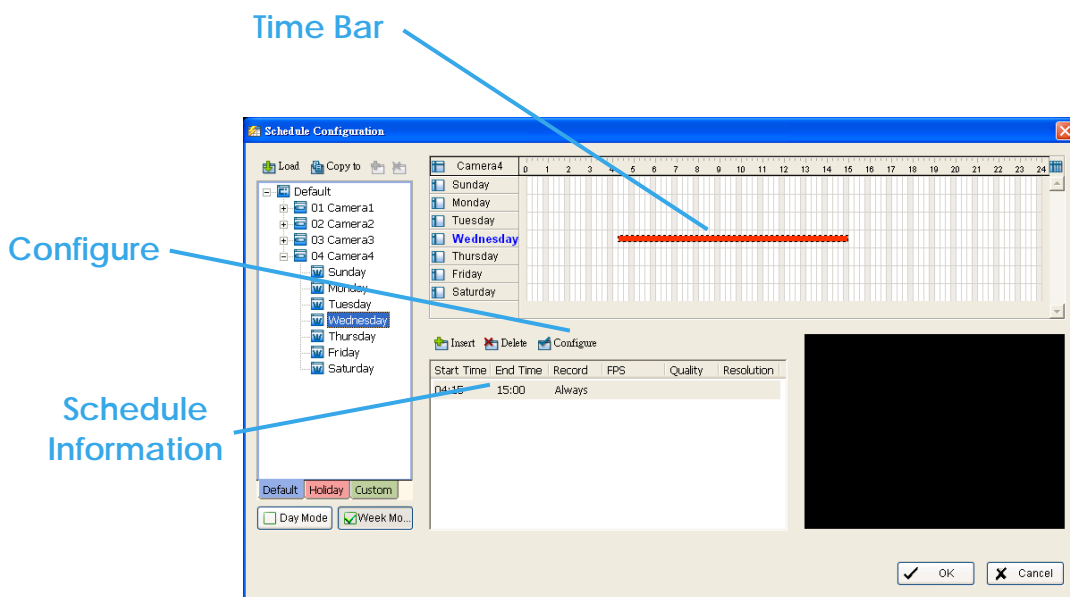
**3.5.1 Default:** Follow the same process to setup the schedule for every day in a week.

**3.5.2 Holiday:** You may assign holidays where the system will work according to the setting of Sunday.

**3.5.3 Custom:** You can assign a particular date(s) on which the system will work according to a special schedule(s) different from the others.

**3.6 Adjust the Scheduled Setting:** You can manually change the setting at any time after you insert or load a period of schedule.

**Option 1:** Move the cursor to the **Time Bar** and change the length or move the bar sideways to change the start and end points.

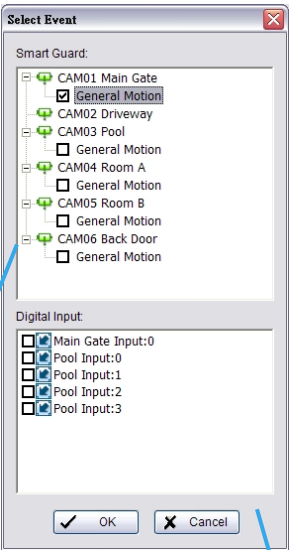
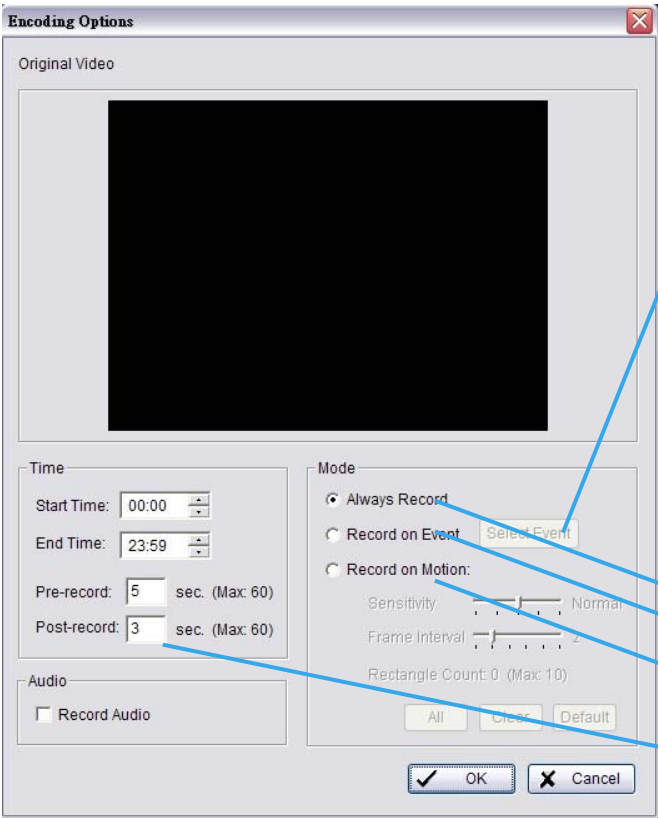


**Option 2:** Click on the Configure icon or double click on schedule information on the screen (highlighted in blue) to obtain the Encoding Option panel (next page) and change the setting as wished.

**Configure:** Click on the configure icon to obtain the Encoding Option panel.

3. Schedule

3.7 Encoding Option Panel



Select Event Panel

Always Record  
Record on Event

Record on Motion

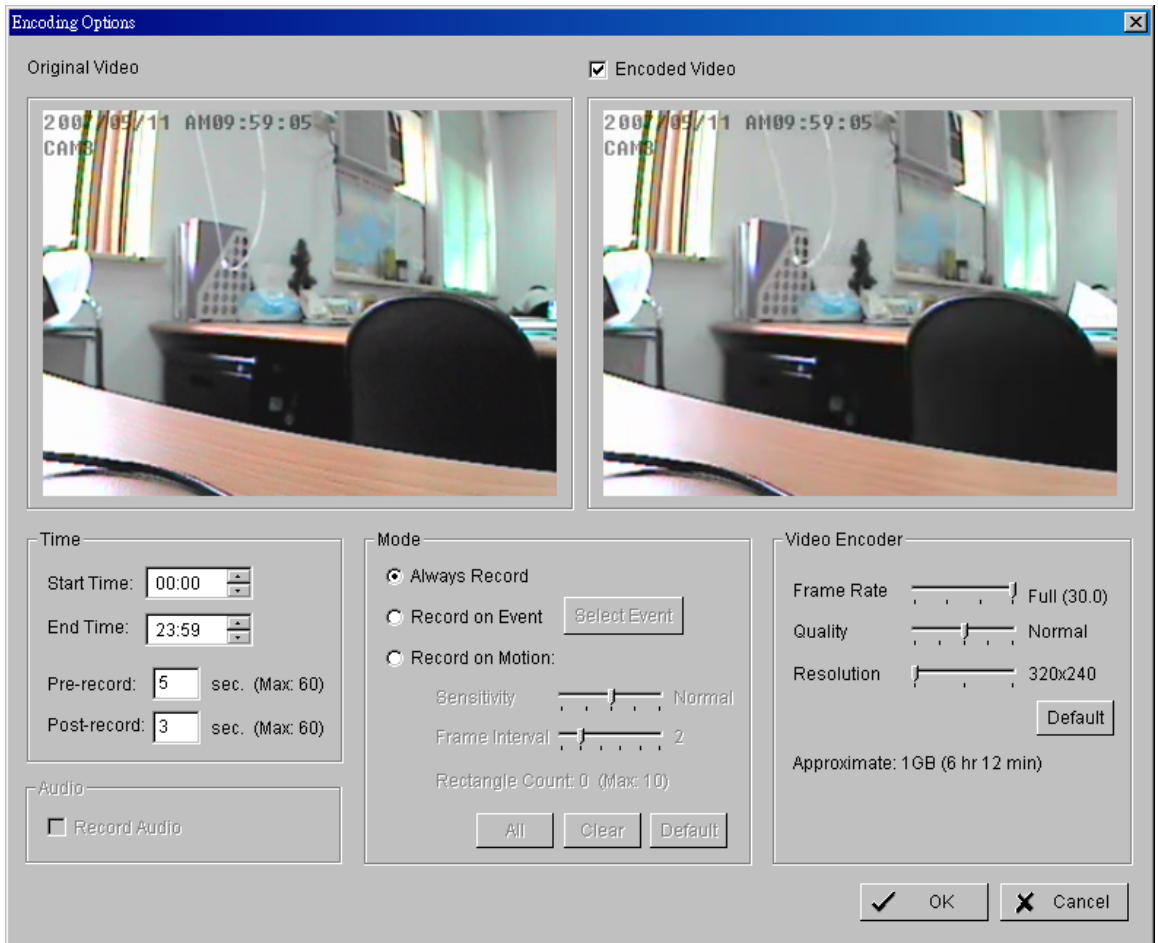
Pre-record/ Post-record



### 3. Schedule

#### For Analog camera

(NUUO's capture devices "SCB series" required)



#### Original Video

In this window, the video is digital signal converted from analog camera without encoded.

#### Encoded Video

In this window, the video is digital signal decoded from the encoded video from analog camera. It is also the record video when you record the video.

#### Video Encoder

You can adjust the Frame Rate, Quality, and resolution you want to record.

### 3. Schedule

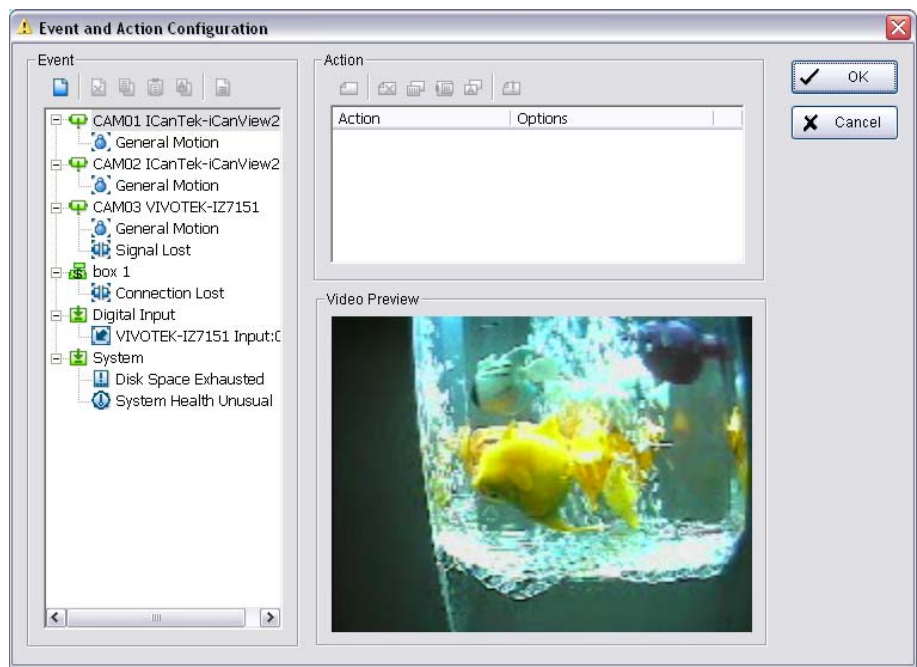
**3.7.1 Always Record:** Select this option to record the video at all time.

**3.7.2 Record on Event:** Select this option to obtain the Select Event panel. From the Smart Guard list, check the box of the camera(s) that you want to trigger the recording action. Click OK to complete the setting. Note: This option needs start Smart Guard to trigger the recording schedule.

**3.7.3 Record on Motion:** Select this option to start recording when there are motions detected. To detect Motion, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also click on "All" button to select the entire detection zone. You may adjust the sensitivity and the frame interval.

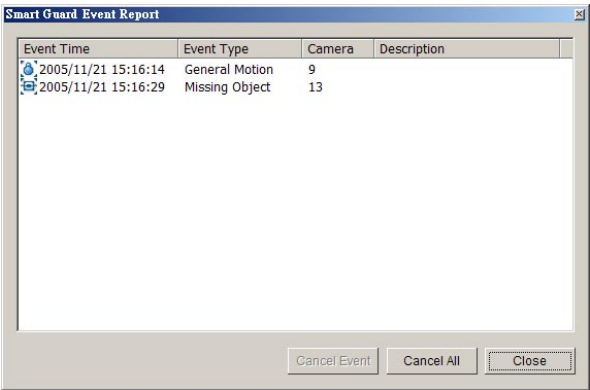
**3.7.4 Pre-record/ Post-record Time:** The pre-record/ post-record function saves the recording data accordingly. For instance, to set up a 5 second pre-record time means the system will start saving the recording data 5 seconds before the event happens.

# 4. Guard



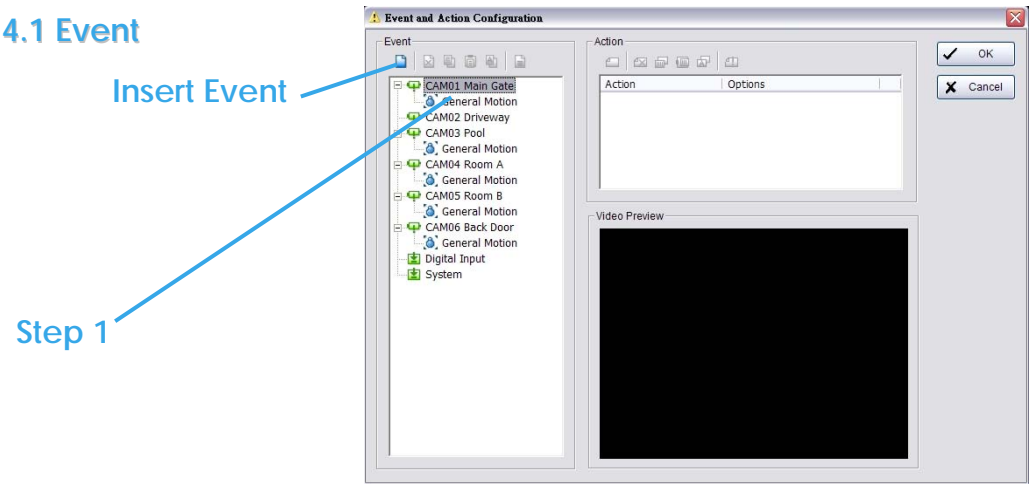
Click on the Guard button on the Main Console to start the Event and Action Configuration panel. You need to specify an event to be detected as well as to set up an action with which the system will take when the specified event is detected.

**Crystal Ball:** Indicates the working status of the system, in blue color rolling when system is recording; in red when an event is detected. When the crystal ball is red, you can click it to cancel the event(s).



4. Guard

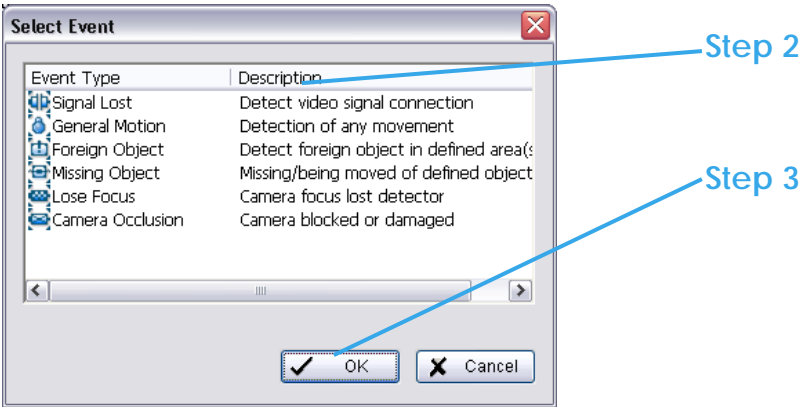
4.1 Event



There are three sources of events: Camera (video image), POS Event, Digital Input (device connected to you PC) and System (condition of your hardware). You can assign multiple events by following the instructions below.

4.1.1 Assign a Camera Event

**Step 1:** Select a channel from the camera list and click the insert event icon.



**Step 2:** There are six types of events: Signal Lost, General Motion, Foreign Object, Missing Object, Lose Focus, and Camera Occlusion. Select the event you want on the Event Type list, and then click OK.

**Step 3:** Configure the setting of the Event Type. See the following instructions.

## 4. Guard

### 4.1.2 Event - Signal Lost

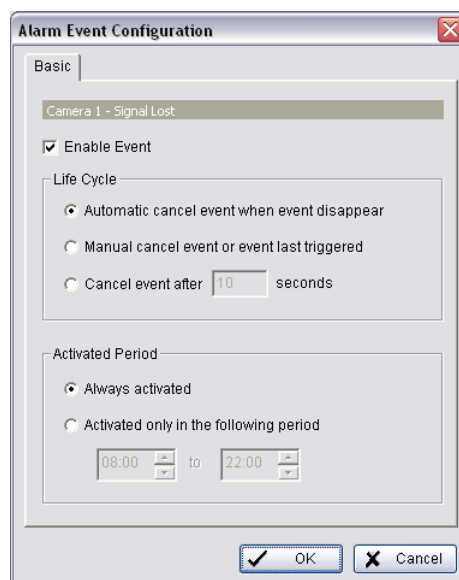
#### Basic

**Enable Event:** Check the box to activate.

#### Life Cycle

**Automatically cancel event when event disappears:** the alarm/action will be off once the abnormality is fixed or ends.

**Manually cancel event or event continues triggered:** The alarm/action will continue until being canceled from the Main Console (Start>Open Event Report>Cancel All Events). The user currently not at the seat watching the screen will be notified by the alarm.



**Cancel event after timeout xx seconds:** Enable checkbox and setup the timeout seconds to cancel the event after the time that you set whatever the events disappear or not.

**Activated Period:** You can set up the system to react during a certain time period; for example, office hours

### 4.1.3 Event - General Motion

Detect any movement in the defined detection zone.

#### Basic Setting

**Enable Event:** Check the box to activate.

#### Life Cycle

**Automatically cancel event when event disappears:** the alarm/action will be off once the abnormality is fixed or ends.

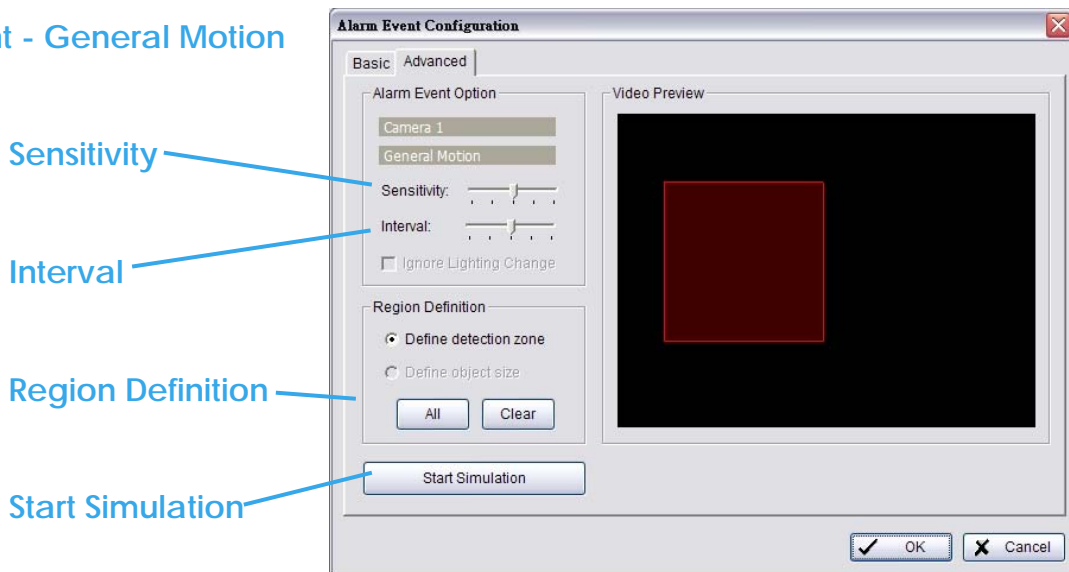
### 4. Guard

**Manually cancel event or event continues triggered:** The alarm/action will continue until being canceled from the Main Console (Start>Open Event Report>Cancel All Events). The user currently not at the seat watching the screen will be notified by the alarm.

**Cancel event after timeout xx seconds:** Enable checkbox and setup the timeout seconds to cancel the event after the time that you set whatever the events disappear or not.

**Activated Period:** You can set up the system to react during a certain time period; for example, office hours

#### Event - General Motion



#### Advanced setting

**Sensitivity:** Click and move the slider control to the **right to increase** sensitivity so that a relatively small movement will trigger the alarm. Move the bar to the **left to reduce** the sensitivity of movement detection. Set up an appropriate Sensitivity value will reduce the chance of false alarm. For example, you can lower the Sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.

**Interval:** Click and move the slider control to the **right to increase** interval time so that the alarm will only be triggered when the movement lasts longer. Move to the **left to reduce** the interval time.

## 4. Guard

**Region Definition:** To detect General Motion, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also click on "All" button to select the entire detection zone.

**Start Simulation:** Click the Start Simulation button and test the function on the preview screen.

### 4.1.4 Event - Foreign Object

Alarm will be set off when an object appears in the defined area on the screen.

#### Basic Setting

**Enable Event:** Check the box to activate.

#### Life Cycle

**Automatically cancel event when event disappears:** the alarm/action will be off once the abnormality is fixed or ends.

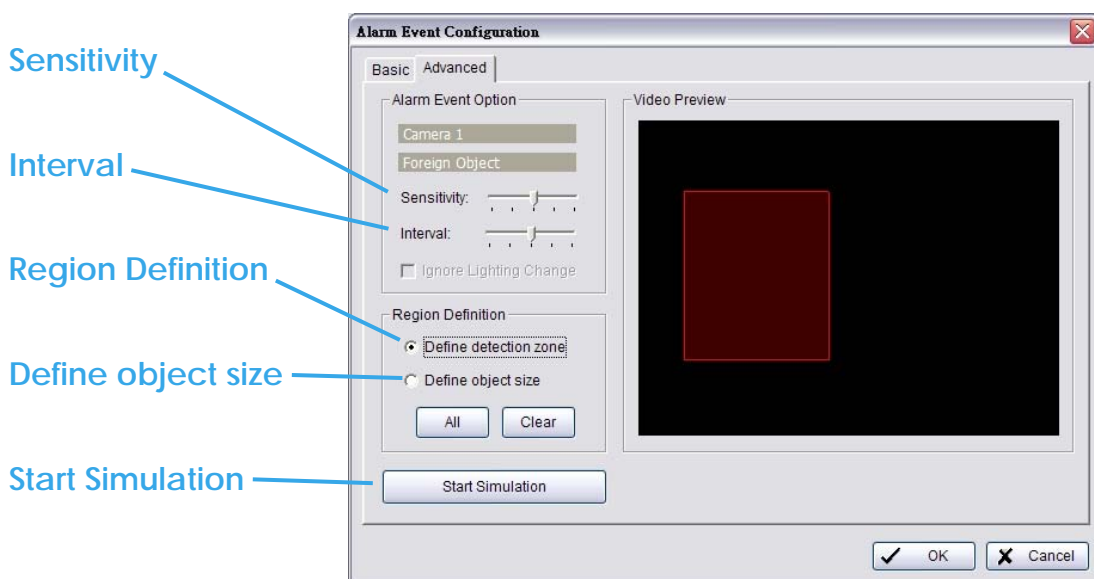
**Manually cancel event or event continues triggered:** The alarm/action will continue until being canceled from the Main Console (Start>Open Event Report>Cancel All Events). The user currently not at the seat watching the screen will be notified by the alarm.

**Cancel event after timeout xx seconds:** Enable checkbox and setup the timeout seconds to cancel the event after the time that you set whatever the events disappear or not.

**Activated Period:** You can set up the system to react during a certain time period; for example, office hours

### 4. Guard

#### Event - Foreign Object



#### Advanced setting

**Sensitivity:** Click and move the slider control to the **right to increase** sensitivity so that a relatively small movement will trigger the alarm. Move the bar to the **left to reduce** the sensitivity of movement detection. Set up an appropriate Sensitivity value will reduce the chance of false alarm. For example, you can lower the Sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.

**Interval:** Click and move the slider control to the **right to increase** interval time so that the alarm will only be triggered when the movement lasts longer. Move to the **left to reduce** the interval time.

**Region Definition:** To detect Foreign Objects, you have to define a detection zone and define the size of the object you want to detect. Left-click and drag the mouse to draw the detection zone (Region 1).

After defining the detection zone, select **Define object size**, and then left-click and drag the mouse to indicate the size of the object you want to detect.



## 4. Guard

### Event - Foreign Object

*Hint:* For instance, if you want to prevent somebody from leaving a briefcase in a hallway, you may put a briefcase in the hallway where the camera is aiming. On the screen of the camera, draw an area that fits the size of the briefcase and define it as the object size, and then remove the briefcase before activating the Smart Guard function on the Main Console. The system will consider everything in the screen normal when you click Start to activate the monitor function.

**Start Simulation:** Click the Start Simulation button and test the function on the preview screen.

#### 4.1.5 Event - Missing Object

Alarm will be set off when an object disappears in the defined area on the screen.

### Basic Setting

**Enable Event:** Check the box to activate.

### Life Cycle

**Automatically cancel event when event disappears:** the alarm/action will be off once the abnormality is fixed or ends.

**Manually cancel event or event continues triggered:** The alarm/action will continue until being canceled from the Main Console (Start>Open Event Report>Cancel All Events). The user currently not at the seat watching the screen will be notified by the alarm.

**Cancel event after timeout xx seconds:** Enable checkbox and setup the timeout seconds to cancel the event after the time that you set whatever the events disappear or not.

**Activated Period:** You can set up the system to react during a certain time period; for example, office hours

### 4. Guard

#### Event - Missing Object

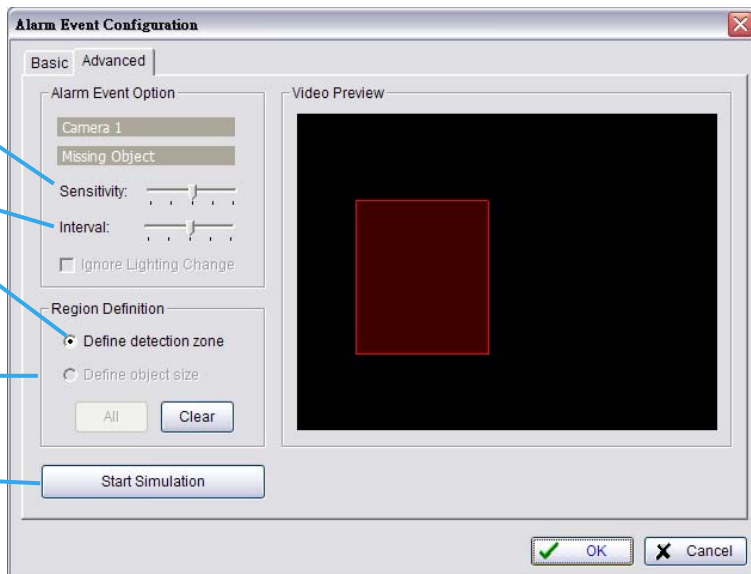
Sensitivity

Interval

Region Definition

Define object size

Start Simulation



#### Advanced setting

**Sensitivity:** Click and move the slider control to the **right to increase** sensitivity so that a relatively small movement will trigger the alarm. Move the bar to the **left to reduce** the sensitivity of movement detection. Set up an appropriate Sensitivity value will reduce the chance of false alarm. For example, you can lower the Sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.

**Interval:** Click and move the slider control to the **right to increase** interval time so that the alarm will only be triggered when the movement lasts longer. Move to the **left to reduce** the interval time.

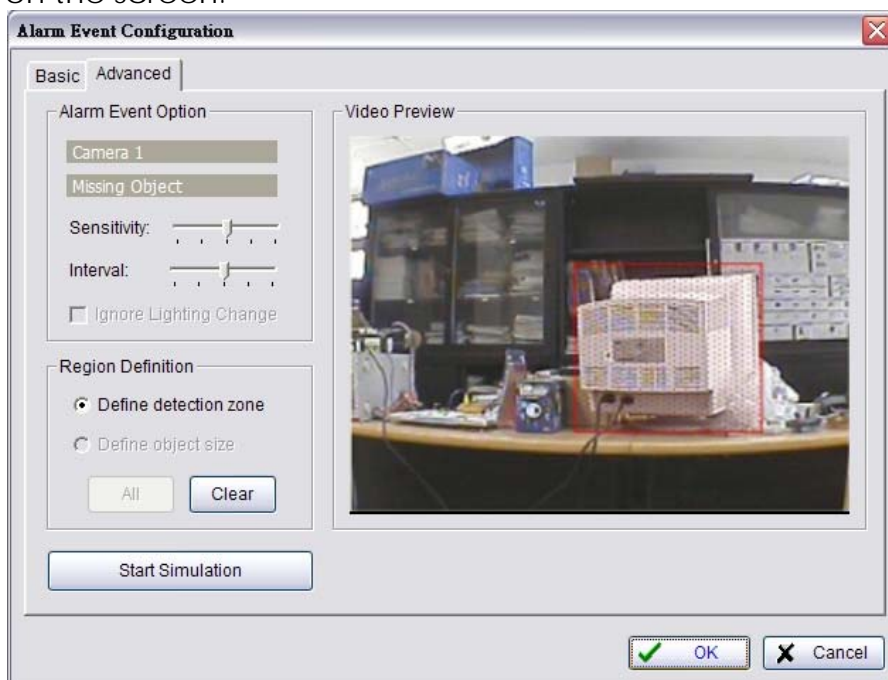
**Region Definition:** To detect Foreign Objects, you have to define a detection zone and define the size of the object you want to detect. Left-click and drag the mouse to draw the detection zone (Region 1).

After defining the detection zone, select **Define object size** and then left-click and drag the mouse to indicate the size of the object you want to detect.

## 4. Guard

### Event - Missing Object

*Hint:* For instance, if you want to prevent somebody from removing the computer monitor on the desk, draw an area that fits the size of the monitor on the screen.



**Start Simulation:** Click the Start Simulation button and test the function on the preview screen.

#### 4.1.6 Event - Lose Focus

This function alarms you when any of the cameras is losing focus and has blur image.

### Basic Setting

**Enable Event:** Check the box to activate.

### Life Cycle

**Automatically cancel event when event disappears:** the alarm/action will be off once the abnormality is fixed or ends.

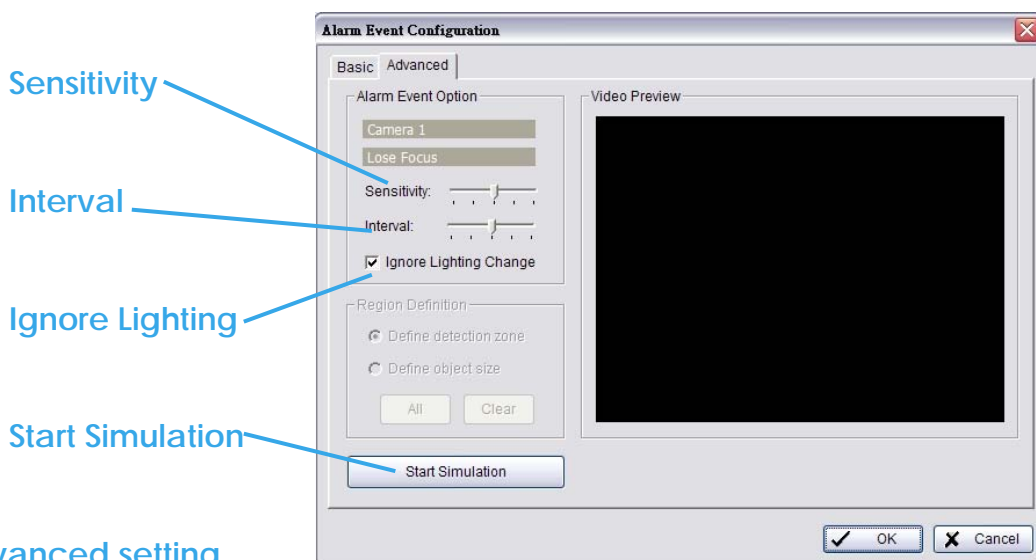
### 4. Guard

**Manually cancel event or event continues triggered:** The alarm/action will continue until being canceled from the Main Console (Start>Open Event Report>Cancel All Events). The user currently not at the seat watching the screen will be notified by the alarm.

**Cancel event after timeout xx seconds:** Enable checkbox and setup the timeout seconds to cancel the event after the time that you set whatever the events disappear or not.

**Activated Period:** You can set up the system to react during a certain time period; for example, office hours

#### Event - Lose Focus



#### Advanced setting

**Sensitivity:** Click and move the slider control to the **right to increase** sensitivity so that a relatively small movement will trigger the alarm. Move the bar to the **left to reduce** the sensitivity of movement detection. Set up an appropriate Sensitivity value will reduce the chance of false alarm. For example, you can lower the Sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.

**Interval:** Click and move the slider control to the **right to increase** interval time so that the alarm will only be triggered when the movement lasts longer. Move to the **left to reduce** the interval time.

## 4. Guard

**Ignore Lighting:** Check the box to avoid alarm being set off by light changing.

**Start Simulation:** Click the Start Simulation button and test the function on the preview screen.

### 4.1.7 Event - Camera Occlusion

This function alarms you when any of the cameras is blocked.

#### Basic Setting

**Enable Event:** Check the box to activate.

#### Life Cycle

**Automatically cancel event when event disappears:** the alarm/action will be off once the abnormality is fixed or ends.

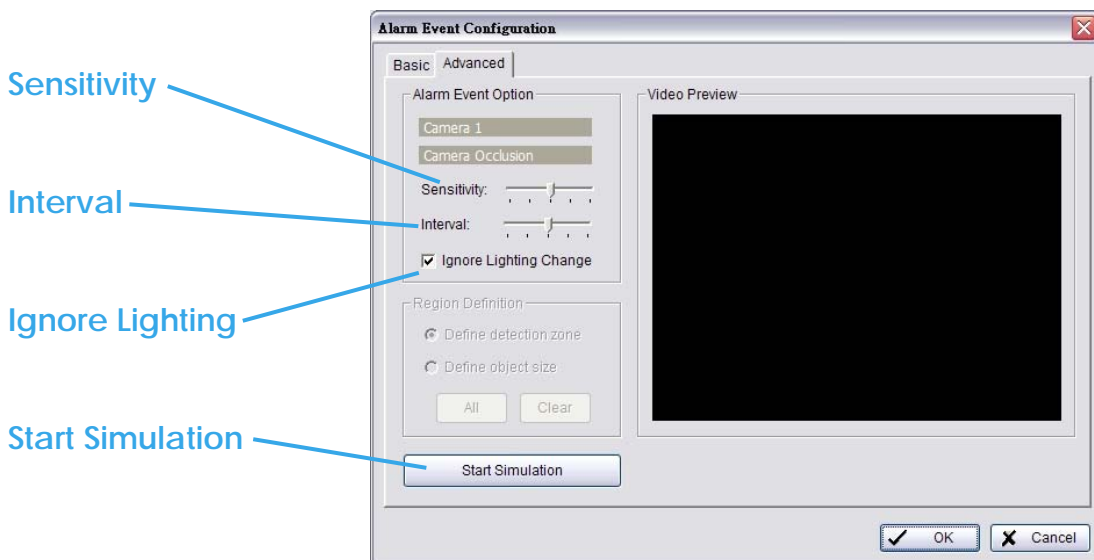
**Manually cancel event or event continues triggered:** The alarm/action will continue until being canceled from the Main Console (Start>Open Event Report>Cancel All Events). The user currently not at the seat watching the screen will be notified by the alarm.

**Cancel event after timeout xx seconds:** Enable checkbox and setup the timeout seconds to cancel the event after the time that you set whatever the events disappear or not.

**Activated Period:** You can set up the system to react during a certain time period; for example, office hours

### 4. Guard

#### Event - Camera Occlusion



#### Advanced setting

**Sensitivity:** Click and move the slider control to the **right to increase** sensitivity so that a relatively small movement will trigger the alarm. Move the bar to the **left to reduce** the sensitivity of movement detection. Set up an appropriate Sensitivity value will reduce the chance of false alarm. For example, you can lower the Sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.

**Interval:** Click and move the slider control to the **right to increase** interval time so that the alarm will only be triggered when the movement lasts longer. Move to the **left to reduce** the interval time.

**Ignore Lighting:** Check the box to avoid alarm being set off by light changing.

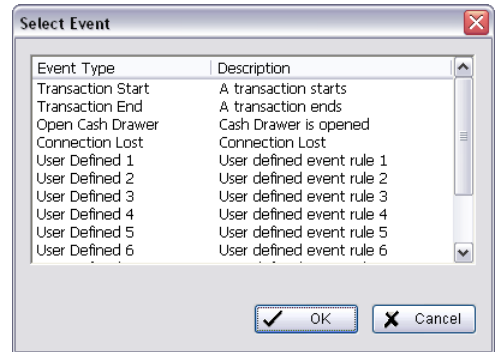
**Start Simulation:** Click the Start Simulation button and test the function on the preview screen.






## 4. Guard

### 4.1.8 Assign a POS Event

**Step 1:** Select a  POS from the list and click  the insert event icon.

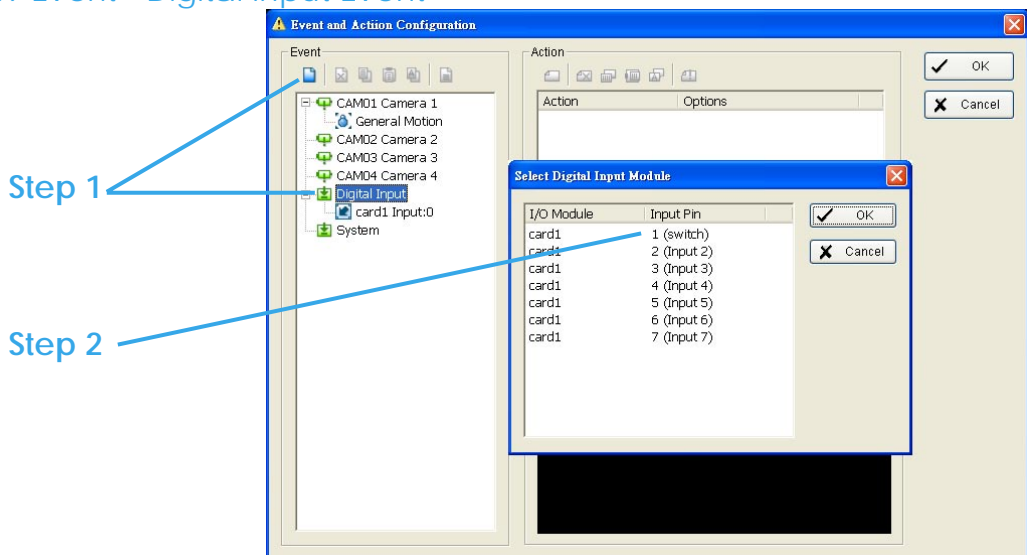
**Step 2:** There are five types of events: Transaction Start, Transaction End, Open Cash Register, Connection Lost and User Defined. Select the event you want on the Event Type list, and then click OK.



-  **Transaction Start** - Detect any transaction beginning
-  **Transaction End** - Detect any transaction ending
-  **Open Cash Register** - Detect any cash register opening
-  **User Defined** - Detect any condition which is defined by user
-  **Connection Lost** - Detect the connection abnormal event between POS box and Main Console system.

**Step 3:** Configure the setting of the Event Type. Please refer the User manual of POS for detail.

### 4.1.9 Event - Digital Input Event



**Step 1:** Click and highlight **Digital Input** on the event type list, and click the **Insert Event** icon.

### 4. Guard

**Step 2:** Select the device that is connected to your system, that is, the PC you are working with.

#### Basic Setting

**Enable Event:** Check the box to activate.

#### Life Cycle

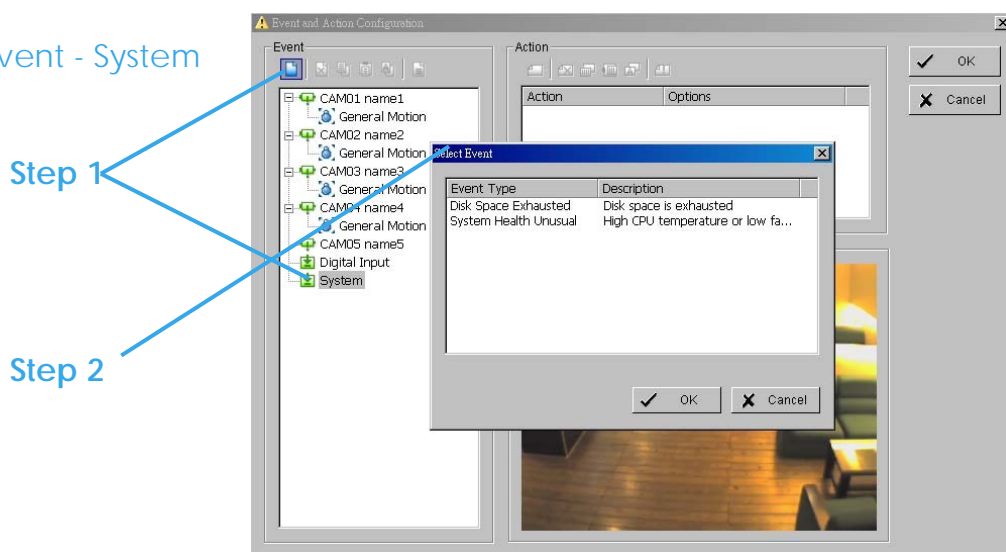
**Automatically cancel event when event disappears:** the alarm/action will be off once the abnormality is fixed or ends.

**Manually cancel event or event continues triggered:** The alarm/action will continue until being canceled from the Main Console (Start>Open Event Report>Cancel All Events). The user currently not at the seat watching the screen will be notified by the alarm.

**Cancel event after timeout xx seconds:** Enable checkbox and setup the timeout seconds to cancel the event after the time that you set whatever the events disappear or not.

**Activated Period:** You can set up the system to react during a certain time period; for example, office hours

#### 4.1.10 Event - System





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## 4. Guard

**Step 1:** Click and highlight **Digital Input** on the event type list, and click the **Insert Event** icon.

**Step 2:** There are two events. Select the event you want to detect.

### Disk Space Exhausted

This function alarms you when disk space is exhausted.

#### Basic Setting

**Enable Event:** Check the box to activate.

#### Life Cycle

**Automatically cancel event when event disappears:** the alarm/action will be off once the abnormality is fixed or ends.

**Manually cancel event or event continues triggered:** The alarm/action will continue until being canceled from the Main Console (Start>Open Event Report>Cancel All Events). The user currently not at the seat watching the screen will be notified by the alarm.

**Cancel event after timeout xx seconds:** Enable checkbox and setup the timeout seconds to cancel the event after the time that you set whatever the events disappear or not.

**Activated Period:** You can set up the system to react during a certain time period; for example, office hours

### System Health Unusual

This function alarms you when high CPU temperature or low fan speed.

#### Basic Setting

**Enable Event:** Check the box to activate.

4. Guard

Life Cycle

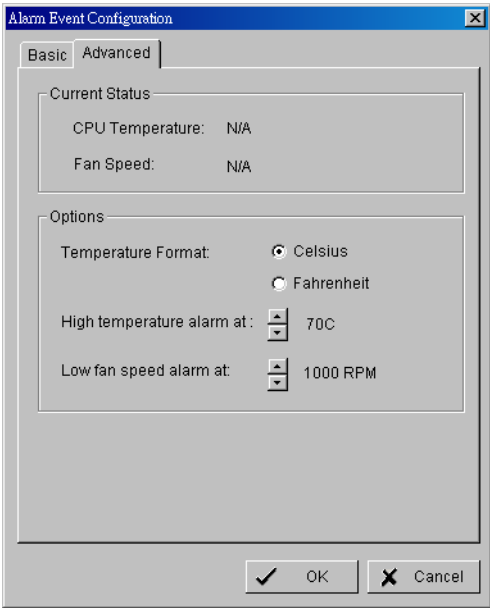
**Automatically cancel event when event disappears:** the alarm/action will be off once the abnormality is fixed or ends.

**Manually cancel event or event continues triggered:** The alarm/action will continue until being canceled from the Main Console (Start>Open Event Report>Cancel All Events). The user currently not at the seat watching the screen will be notified by the alarm.

Advanced setting

**Current Status:** Show you the current CPU temperature and fan speed.

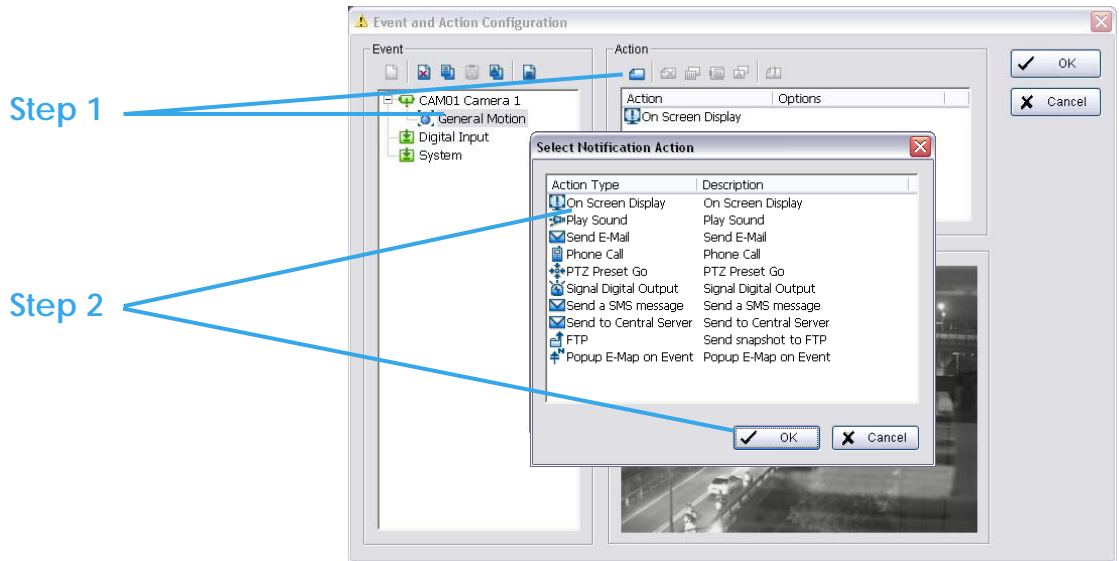
**Option:** Check the temperature format Celsius or Fahrenheit and adjust the high temperature alarm at what temperature degrees and low fan speed alarm at what RPM.



## 4. Guard

### 4.2 Action

**Insert Action:** To setup actions responding to an unusual event.



**Step 1:** Choose an event and click the "Insert Action" icon.

**Step 2:** There are 8 types of actions: On Screen Display, Play Sound, Send E-mail, Phone Call, PTZ Preset Go, Signal Digital Output, Send a SMS Message, Send to Central Server, Send snapshot to FTP, and Popup E-Map on event. Select the action you want on list and then click OK.

**Step 3:** Configure the setting of the Action Type if needed.

#### 4.2.1 Action - Action Type

**On Screen display:** A red warning will be flashing on the screen of Main Console, indicating which type of unusual event is detected.

**Play Sound:** Sound alarm warning. Choose a Wave file (.wav) and the system will play the sound as alarm when an unusual event is detected.

**Send E-mail:** The system will send an E-mail immediately to given accounts indicating the type of event, the time, and attaching a picture taken while the event is detected. To give the system the E-mail accounts, go to Config > Setup > Hotline. See Configuration at page 78 for detail.

### 4. Guard

**Phone Call:** The system will call a given phone number when an unusual event is detected. To setup the phone number and make an audio record for the phone call, go to Config > Setup > Hotline. See Configuration at page 78 for detail.

**PTZ Preset Go:** The PTZ (pan/tilt/zoom) camera will go to a preset point or auto patrol when an unusual event is detected. Please follow below steps to setup this function.

**Step 1:** Choose an event and click the “Insert Action” icon.

**Step 2:** Select the “PTZ Preset Go” action and then click OK.

**Step 3:** Set the action of cameras which you want to be trigger by events.

For example:

Set the action of camera 1:

1. Choose camera 1.
2. Set the start, end preset points.
3. Select the Life Cycle.
4. Click on Add.

Set the action of camera 2:

5. Choose camera 2.
6. Set the start patrol and end patrol.
7. Select the Life cycle
8. Click on Add.
9. Finally click on Ok to save all setting of cameras.

**Note:** You need to configure your PTZ camera before using this function. See Config at page 77 for PTZ camera configuration.

PTZ Camera Preset Go

1 Camera: CAM14 (camera 3) IP Camera

2 Start  
☒ Preset ☐ Patrol  
1

3 Life Cycle  
☒ Stop PTZ action when event disappear  
☐ Keep PTZ action 10 second

2 End  
☒ Preset ☐ Patrol  
2  
The end preset go will take 10 second

Add Clear Update Delete

Camera	Start	Life Cycle	End	End Preset Go
--------	-------	------------	-----	---------------

OK Cancel

**Signal Digital Output:** Triggers traditional alarming devices that connect to the system, such as alarm lights and sirens.

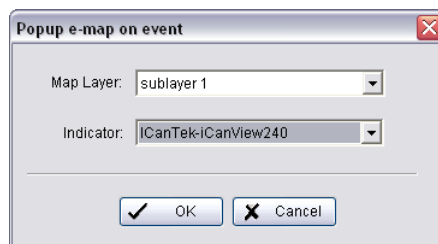
**Send a SMS message:** The system will send a SMS message immediately to given accounts indicating the type of event, the time. To give the system the GSM modem, go to Config > Setup > Hotline. See Configuration at page 78 for detail.

## 4. Guard

**Send to Central Server:** The system will send a Event to Central Server. The detail please refers the user manual of Central Management System.

**FTP:** The system will upload a snapshot immediately to FTP site. To give the system the FTP server, go to Config > Setup > Hotline. See Configuration at page 78 for detail.

**Popup E-Map on Event:** The system will auto popup E-Map window and show the assigned map and indicator. To edit E-Map, see Configuration at page 107 for detail.



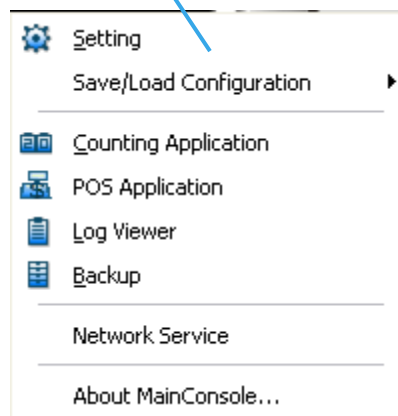
## 5. Configuration



Config

Modify the setting and access counting application, log viewer, backup, and network services. Click on the Config icon, select from the drop-down menu and open the Configuration panel.

\* Video Source function available only with MPEG-4 software compression captures devices.



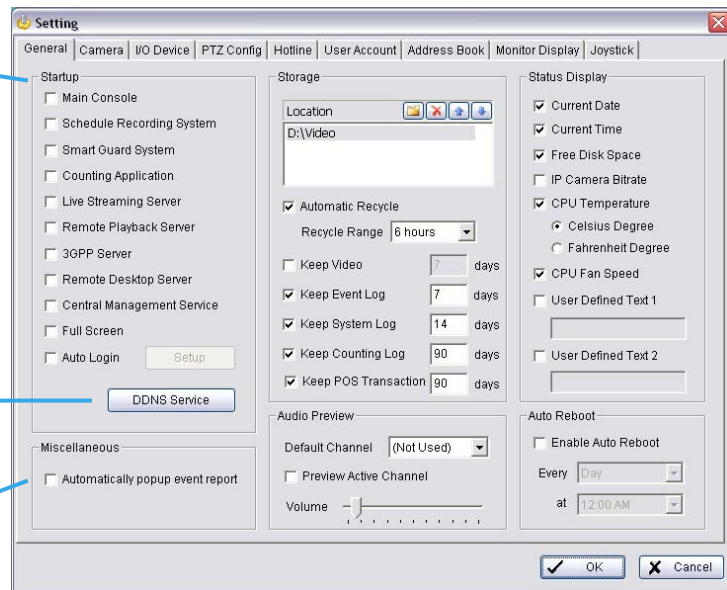
## 5. Configuration

### 5.1 Setting – General

#### Startup

#### DDNS Service

#### Automatically Pop up Event Report

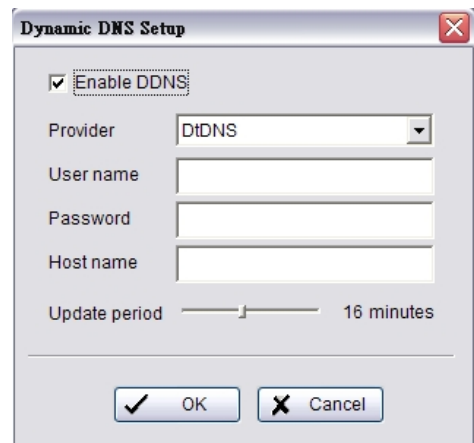


#### 5.1.1 Startup

Check the box and activate the functions as the system starts. You may start/stop the function in Monitor panel on the Main Console.

**DDNS Service:** Dynamic Domain Name Server (DDNS) function allows you to use Live View or Web View to connect to the Main Console through Internet event if you have a dynamic IP address

Click on the DDNS button to obtain the Dynamic DNS Setup panel. Set up the DDNS function by selecting the provider type, filling in user name, password and hostname, and adjusting the update period.



**5.1.2 Automatically Pop up Event Report:** Event report dialog automatically popup when events been detected. Make sure to stop Smart Guard System before you modify the setting, otherwise the modification will not take place.

5. Configuration

5.1.3 Storage

**Location:** Assign the default folder for the system to store all data files. Recommend not save in system HD (C:\) avoid PC efficiency drop when free storage low.

**Automatic Recycle:** The system will automatically delete out-dated data to save storage space.

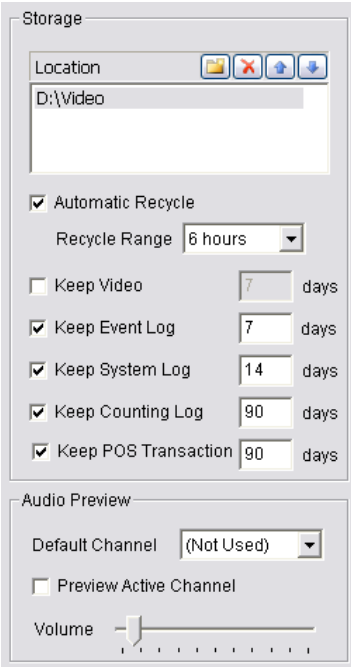
**Keep Video:** Delete the video records that are older than the number of days set.

**Keep Event Log:** Delete the event log data that is older than the number of days set.

**Keep System Log:** Delete the system log data that is older than the number of days set.

**Keep Counting Log:** Delete the counting application data that is older than the number of days set.

**Keep POS Transaction:** Delete the POS transaction data that is older than the number of days set.



5.1.4 Audio Preview



System plays the audio of default channel



System plays the audio of left-top selected channel



## 5. Configuration

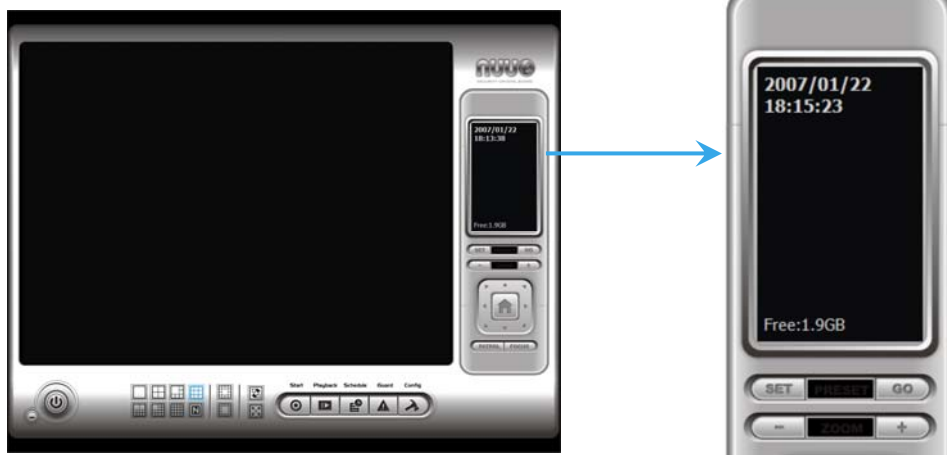
**Default Channel:** Select the audio channel that you wish to hear from in "Default Channel."

**Preview Active Channel:** Check the "Preview Active Channel" option to hear the audio from selected video channel on Main Console. The default channel plays if the video channel isn't selected.

**Volume:** Adjust the volume with the "volume bar."

### 5.1.5 Status Display

Check the boxes of the information that you wish to see in the information display window in the Main Console.

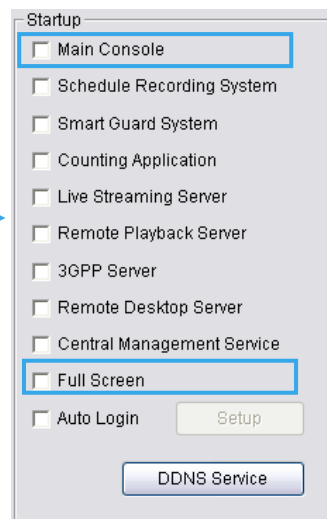
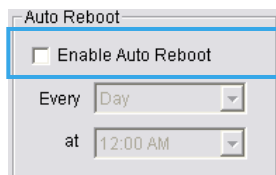


### 5.1.6 Auto Reboot

Check the option of " Enable Auto Reboot " that you can reboot the system on the time you select.

**Step 1:** Check the option of " Enable Auto Reboot. "

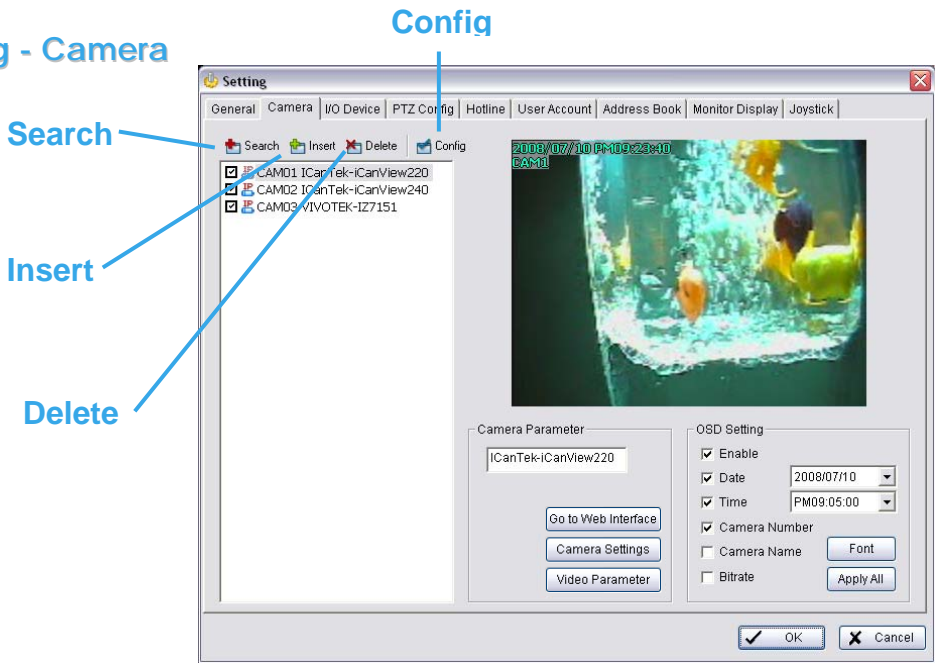
**Step 2:** Select the time you want to reboot.



**Note:** Please also enable Startup [Main Console](#), [Auto Login](#) and [setup login account](#) when PC Boot to ensure all system running normally after Auto Reboot.

5. Configuration

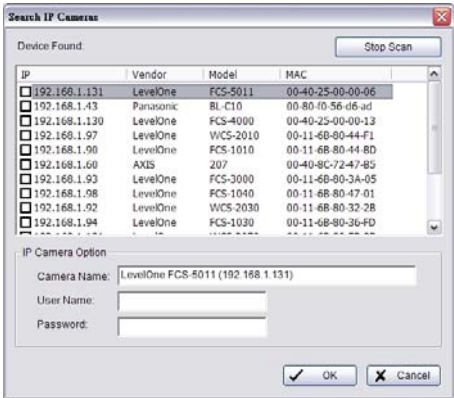
5.2 Setting - Camera



5.2.1 Add Camera

Four function buttons will be included in the Setting/Camera panel if you have our Hybrid Surveillance System license for IP camera.

**Search:** Click on the Search icon to obtain the Search IP Camera panel. The system will start scanning automatically once the panel is opened; feel free to stop scanning by clicking on the Stop Scan button.



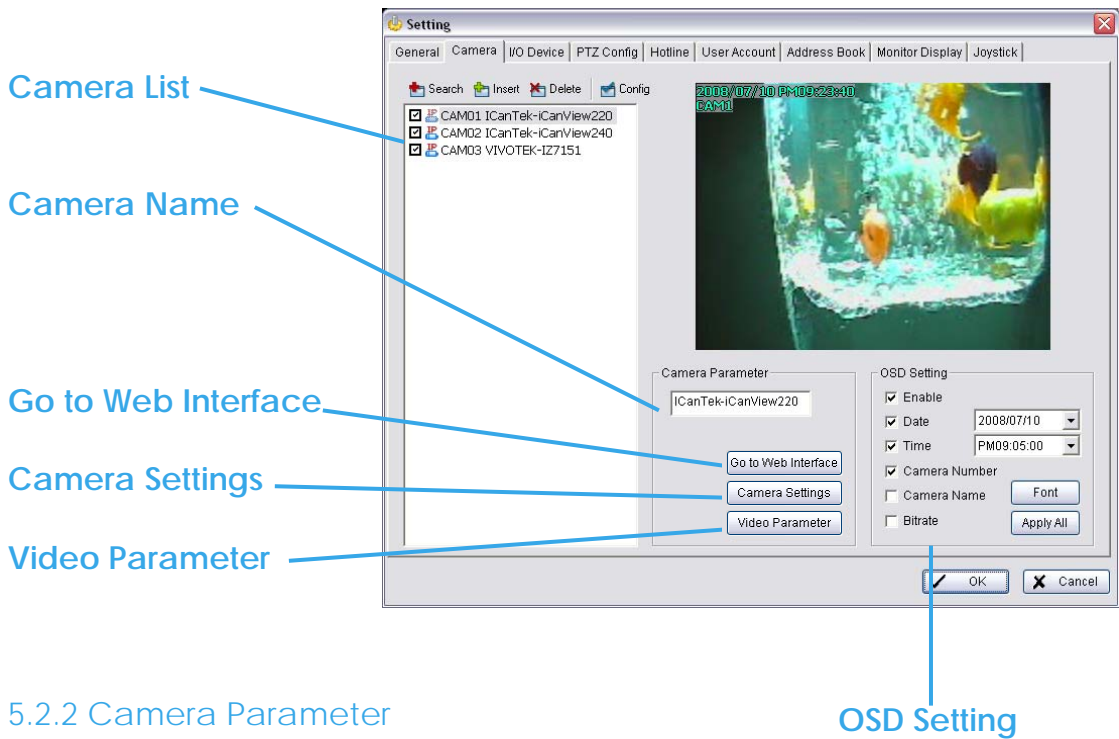
Fill in the user name and password for each IP camera found and click OK to add it to the camera list.

**Insert:** Click on the Insert icon to obtain the IP/Video Server Setting panel and add IP cameras to the list.

**Delete:** Click on the delete button to remove the selected IP camera(s) from the system. Click OK to finalize the modification.

**Config:** Click on the Config button to obtain the IP/Video Server Setting panel. You can modify the IP camera settings with the Setting panel. See page 75 for detail.

## 5. Configuration



### 5.2.2 Camera Parameter

**Camera List:** The camera(s) connected to the system will show on the panel, click the name of the camera to adjust the setting.

**Camera Name:** Name the camera for your convenience.

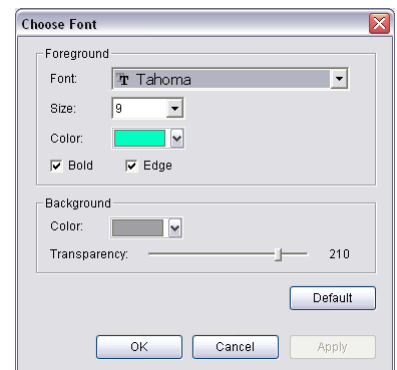
**Go to Web Interface:** Go to Website interface to configure the camera setting (option).

#### Camera Settings:

Set the camera parameter offered by camera vendor.

**Video Parameter:** Adjusts the video's brightness, contrast, saturation, and color hue values.

**5.2.3 OSD Setting:** Select the information that you wish to see in the on-screen display, or the sub-screen of the camera. And then, click the Font button to setup the font style.



5. Configuration

5.2.4 IP Camera / Video Server Setting panel

Network

Device

Description

IP Camera / Video Server Setting

Network

Name:

IP Address:

Use DNS

Http Port:

80

User Name:

Password:

Protocol:

TCP

UDP

HTTP

Device

Vendor:

AXIS

Auto Detect

Camera Model:

205

Camera:

1

2

3

4

Description

Video Codec: MJPEG

Audio Codec: N/A

Camera: 1, DI: 0, DO: 0

OK

Cancel

**Network:** Fill up the Network field (including Name, IP Address, Http Port, User Name, Password and Protocol) referring to the instruction provided by the camera manufacturer. Check "Use DNS" to use domain name instead of IP address.

**Device:** Choose the IP camera manufacturer from the drop-down menu. Click on "Auto Detect" and the model name will show in the box.

**Description:** Show information of the IP camera.

## 5. Configuration

### 5.3 Setting - I/O Device

#### Device Setting

#### Module Setting

#### List of devices

#### Input Monitor

#### Output Monitor

**I/O Device Setting**

Module: Pool  
Device:   
ID:

Add  
Modify  
Remove

Module	Device	ID
Main Gate	IP Camera	
Pool	IP Camera	

**Digital input/output pins of selected I/O module**

Name: Type:

Pin	Name	Signal Type
DI0	Input 0	N/O
DI1	Input 1	N/O
DI2	Input 2	N/O
DI3	Input 3	N/O
DO0	Output 0	N/O
DO1	Output 1	N/O
DO2	Output 2	N/O
DO3	Output 3	N/O

**Digital Input Monitor**

0 1 2 3

**Digital Output Simulation**

0 1 2 3

OK Cancel

**Module Setting:** Name the module device and ID that has been connecting the digital input/output device(s) to your system.

**Device:** This column displays the device(s) already installed to the system.

**ID:** Select the number of the I/O port to which you plug the ribbon cable.

**Input Monitor:** The device(s) is turned on if the dot is in red. By triggering the digital input device, the related icon will light up. This is used to check if the device is correctly connected or not.

**Output Monitor:** The device(s) is turned on if the dot is in red. By clicking on the icon, you may trigger the digital device connecting to the system. This can be used to test if the output device is correctly connected.

#### Device Setting

**Name:** Insert the name of the device (input and output).

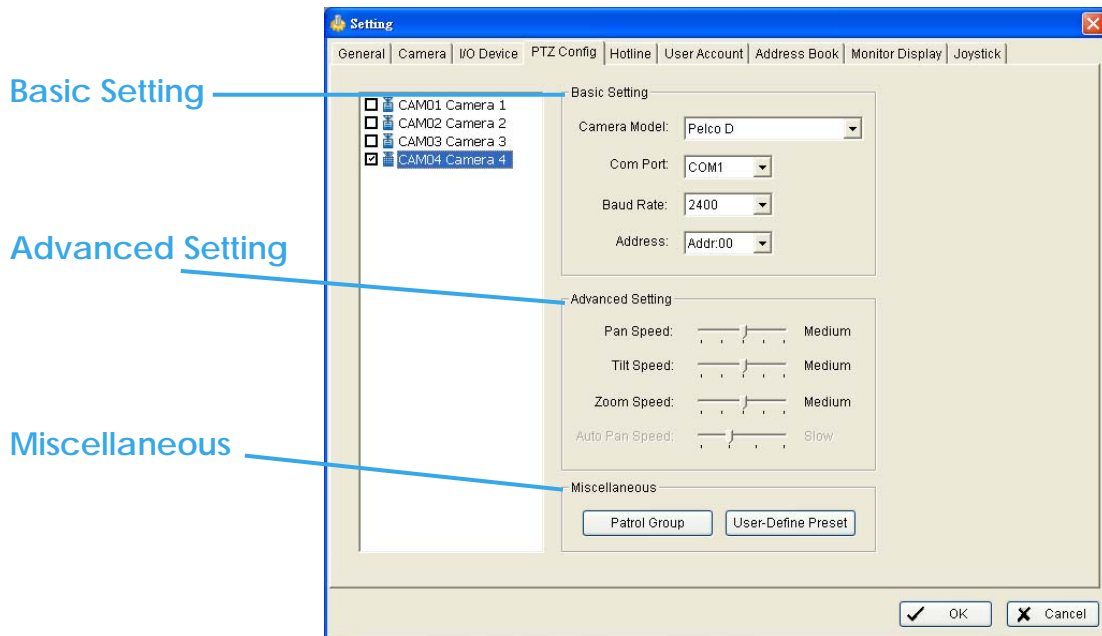
**Type:** Select the device type from the drop-down menu.

**N/O:** Normal Open.

**N/C:** Normal Close.

### 5. Configuration

#### 5.4 Setting - PTZ Config



Install PTZ cameras following the instruction of the camera manufacturers. A PTZ camera is usually connected to the PC with RS-485/RS-422.

Check the box on the camera list to activate the PTZ control function of a PTZ camera.

**Basic Setting:** Select the camera model, com port, baud rate, and address according to your PTZ camera.

**Advanced Setting:** You may setup the pan speed, tilt speed, zoom speed and auto pan speed. Adjust the settings by dragging the bars.

**Miscellaneous:**

**Patrol Group:** You can setup the Patrol Group, please see page 20 for the detail.

**User-Define Preset:** User-Define Preset for analog speed dome can trigger the extra-function of speed dome itself such as auto-tracking, login menu of camera...etc.

## 5. Configuration

**User-Defined Preset Dialog**

Configuration

Preset Name:

Preset Number:

ID	Name	Preset
1	point 17	80
2	function 1	99
3	function 2	95
4	function 3	65
5	function 4	70

Step 1: Type the Preset Name.

Step 2: Type the Preset Number.

Step 3: Press the buttons to Add, Delete, or Update preset setup.

### 5.5 Setting – Hotline

**Setting**

General | Camera | I/O Device | PTZ Config | **Hotline** | User Account | Address Book | Monitor Display | Joystick

**E-Mail**

\*SMTP Server:

\*E-Mail Sender:

E-Mail Subject:

Body Content:

☐ SMTP server needs authentication

User Account:

Password:

**FTP**

\*Server:  \*Port:

\*Login ID:

\*Password:

Upload directory:

☐ Passive mode

**Telephone**

Modem:

Wave File:

Automatic hangup after  sec

Test

Make test phone call to:

**GSM modem**

Port:

Baud Rate:

PIN Code:

Interval:  minutes

Test

Send a test message to:

Configure the settings of hotlines, including E-mail and telephone calls, once an unusual event is detected.

**E-mail:** Input the following information: server, sender's E-mail address, E-mail's subject title, and body content. You may click on the Send Test Mail button to test the settings.

**Note:** \* indicates mandatory areas

5. Configuration

**FTP:** Input the following information: server, Port, Login ID, Password, and Upload directory. According your FTP type to enable/disable Passive mode. You may click on the Upload Test File button to test the settings.

*Note:* \* indicates mandatory areas

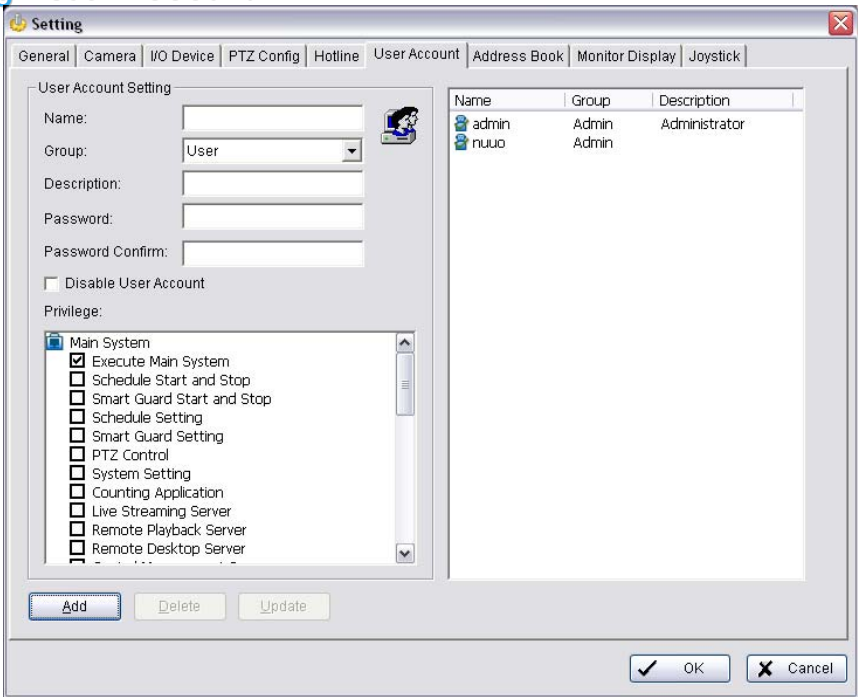
**Telephone:** Select the modem that the system is going to dial the info call with, and then insert the phone number. (A modem is required for voice transition.)

- Note:*
- 1. You must use a modem with voice capability.
  - 2. You may select a Wave format file; it will be played in the phone to alarm the person who picks up the phone call.

**GSM modem:** Set the Port and Baud Rate of the GSM modem device, and then enter PIN code. You can setup the interval of send SMS message. You may click on Test to send test SMS message.

*Note:* The interval is set to restrict the period of two SMS. If you set as 60 min, the SMS between 60 min would be deleted and didn't send to user.

5.6 Setting - User Account



**User Account:** The administrator may manage the user accounts here. From the list on the right, highlight each account and modify the privilege setting.



5. Configuration

5.7 Setting - Address Book

Setting

General

Camera

I/O Device

PTZ Config

Hotline

User Account

Address Book

Monitor Display

Please input the name and contact information

Name: Michael

Phone: 555-1123125

E-Mail: mike@hotline.com

Description:

Add

Clear

Modify

Remove

Contact persons

Name	Phone	E-Mail	Description
Michael	555-1123125	mike@hotline.com	

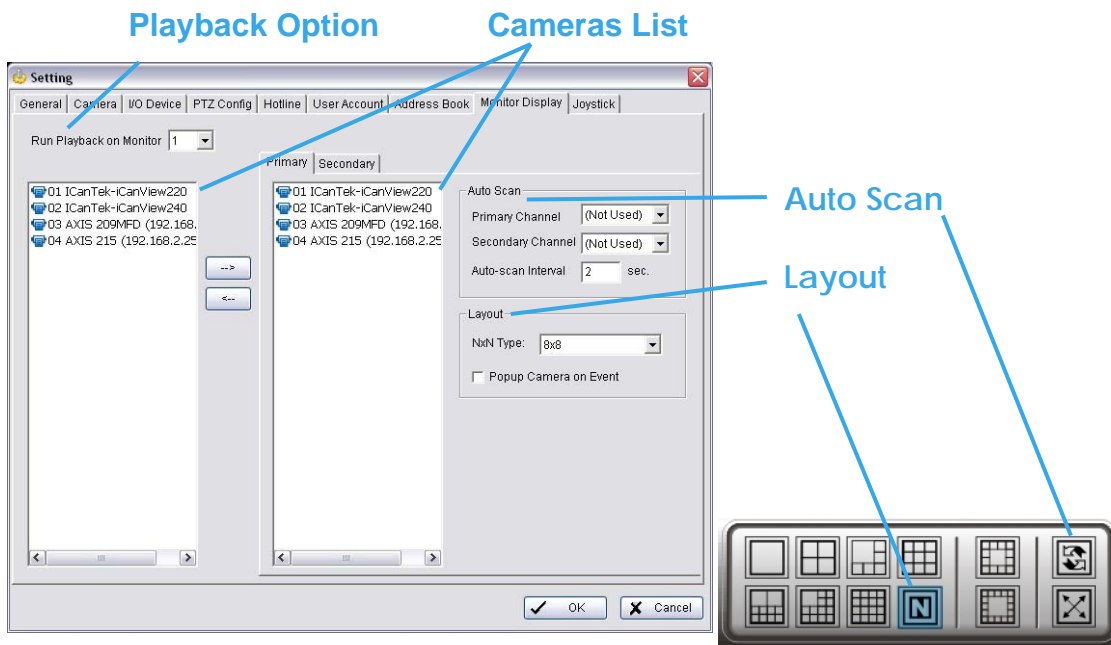
✓ OK

✗ Cancel

**Address Book:** Manage the address book from which you may send out a phone call or an E-mail when an unusual event is detected.

### 5. Configuration

#### 5.8 Setting – Monitor Display



**Playback Option:** Execute Playback on the secondary monitor by checking the box. Make sure to adjust the display setting of your computer in advance to avoid system error.

**Cameras List:** The left side displays a list of all cameras; modify the cameras shown on primary/ secondary monitor in the right window.

**Auto Scan:** Activate auto scan to rotate the channels/ cameras on the display screen.

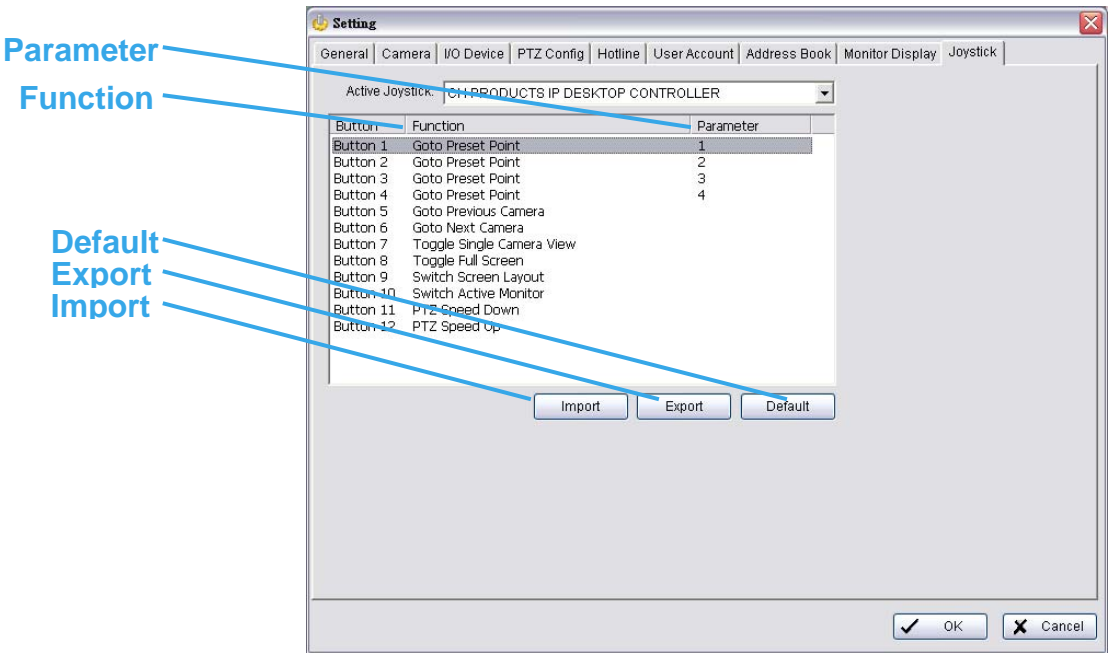
For instance, you may select to show only 4 sub-screens on the main console while having 16 channels connected to the system. With auto scan function, you will be able to see all 16 channels by turns. You can set up a primary channel that will always be on the screen and a secondary channel that has secondary priority.

**Layout:** Choose the number of divisions for NxN division on the Main Console screen.

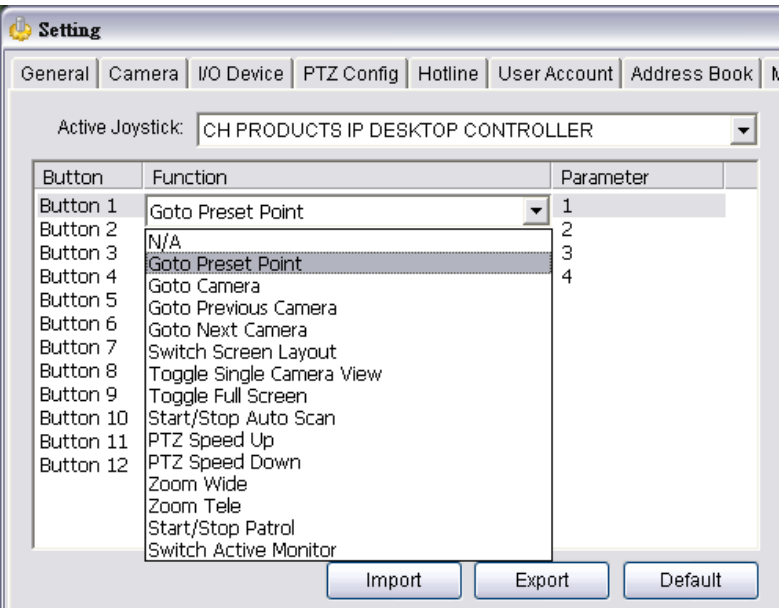
**Note:** For H.264 Hardware compression system, only network cameras (IP Channels) can be shown on the secondary monitor.

5. Configuration

5.9 Setting – Joystick



**Function:** You can choose the function from the drop-down menu for the button of joystick.



5. Configuration

Following is a complete list of all log types:

- |                              |                           |
|------------------------------|---------------------------|
| 1. N/A                       | 9. Start/Stop Auto Scan   |
| 2. Goto Preset Point         | 10. PTZ Speed Up          |
| 3. Goto Camera               | 11. PTZ Speed Down        |
| 4. Goto Previous Camera      | 12. Zoom Wide             |
| 5. Goto Next Camera          | 13. Zoom Tele             |
| 6. Switch Screen Layout      | 14. Start/Stop Patrol     |
| 7. Toggle Single Camera View | 15. Switch Active Monitor |
| 8. Toggle Full Screen        |                           |

**Parameter:** You can choose the parameter of the function from the drop-down menu.

**Default:** You can set the default setting for the joystick.

**Export:** You can export the setting of the joystick.

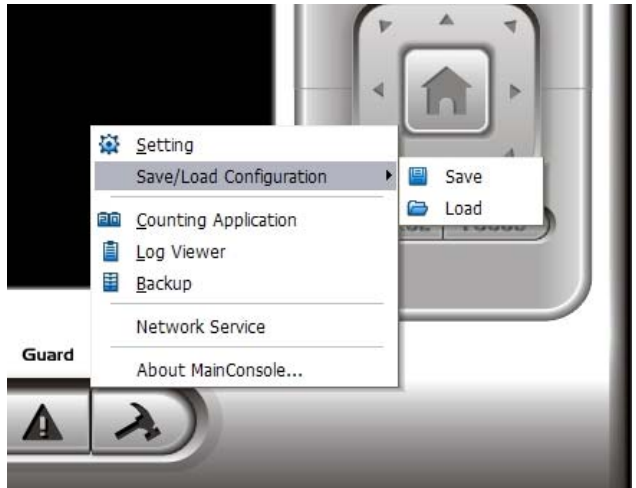
**Import:** You can import the setting of the joystick.

## 5. Configuration

### 5.10 Save/ Load Configuration

The Save/ Load Configuration function allows system users to save any specific setting as a cfg (config) file. You may save up several different cfg files at any time.

**Save Configuration:** To save a specific setting, go to Config > Save/ Load Configuration > Save. In the popup window, type in the file name and then save it as a cfg file.

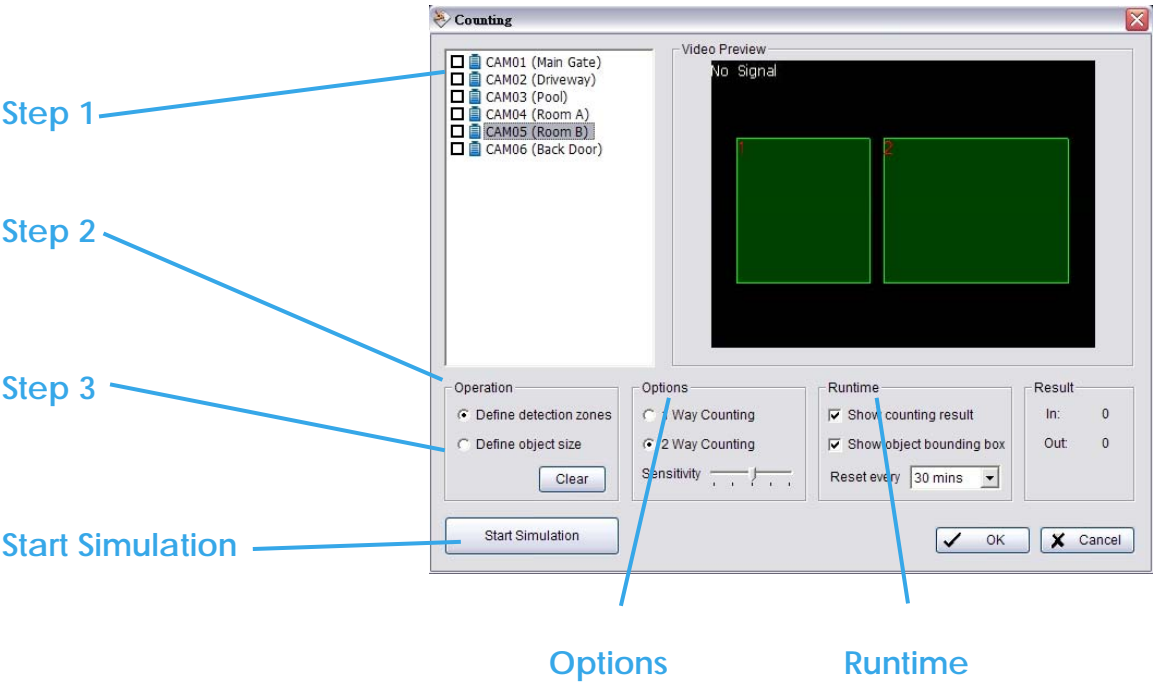


**Load Configuration:** To load a specific setting, go to Config > Save/ Load Configuration > Load. In the popup window, go to the directory that you saved the cfg files at, select any one of them and then click OK to load the file. Main Console will be automatically shutdown after loading a new configuration. Please re-start Main Console manually.

**Note:** MainConsole will be automatically shutdown after loading a new configuration. Please re-start MainConsole manually.

5. Configuration

5.11 Counting Application



**Step 1:** Check the box of the camera to apply the Counting Application to it.

**Step 2:** In Operation section, check the option “Define detection zones” and drag the cursor to draw Region 1 and Region 2 on the Video Preview.

**Step 3:** In Operation section, check the option “Define object size” and drag the cursor to define the object size on the Video Preview. Objects that are about the size be counted while going across these two regions.

**Options:** 1Way Counting will take objects going from Region 1 to Region 2 as one count. In 2Way Counting mode, it counts either going from Region 1 to Region 2 or from Region 2 to Region 1.

**Runtime:** Check the boxes to show the counting result on the screen and/or show object bounding box, which draws the shape of the object that the system detects in red squares. You can choose from the drop-down menu of how long you want to reset the counting number.

**Start Simulation:** Click to test the setting.

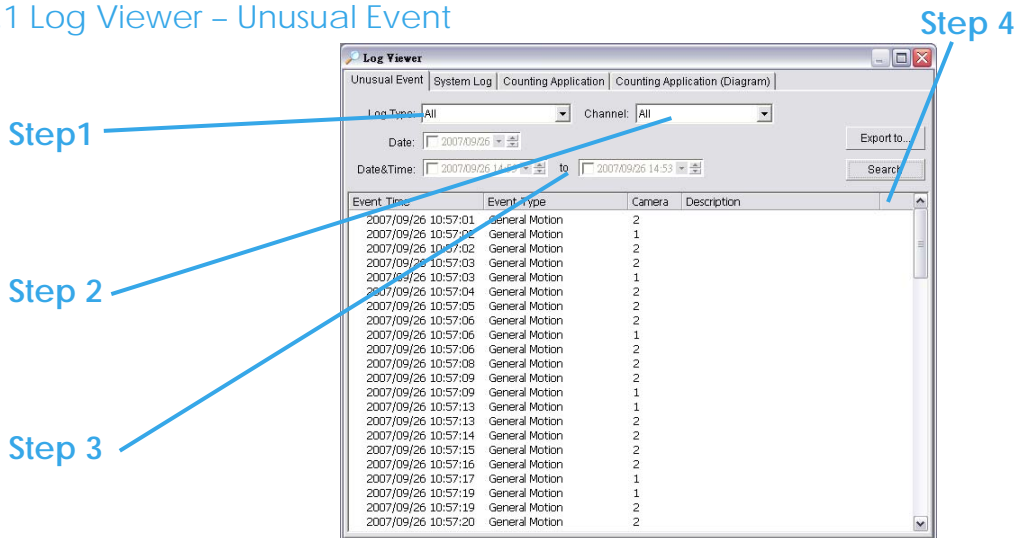
## 5. Configuration

### 5.12 POS Application

Each NUUO Main Console system can manage up to 64 POS cash register devices. The POS Application tool is help to configuration POS devices, please refer the User manual of POS for detail.

### 5.13 Log Viewer

#### 5.13.1 Log Viewer – Unusual Event



**Unusual Event:** View the history of unusual event that had been detected by the Smart Guard System.

**Step 1:** Choose the type of event you want to check or select "All" from the drop-down menu for all types of events.

**Step 2:** Select the camera you want to check the event(s) from or select "All" for all available channels.

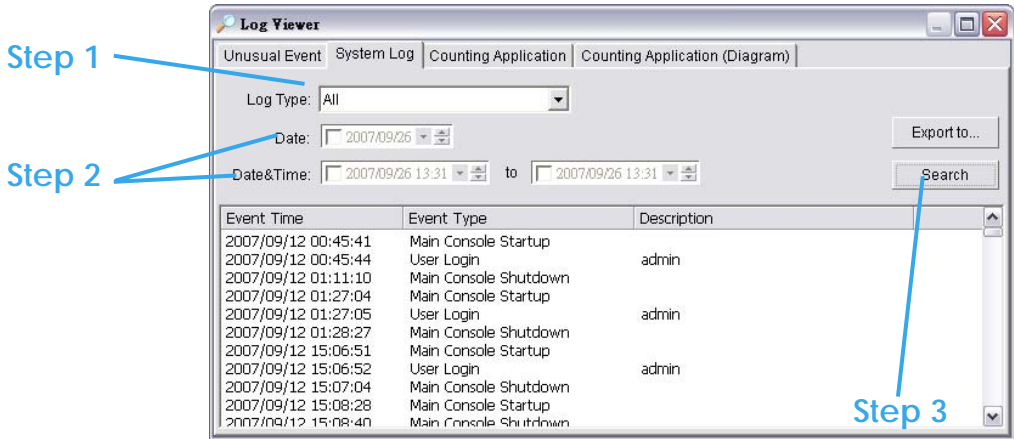
**Step 3:** Select search period.

For a particular data: check the "Date" box right and indicate the date.  
For a period: check the "Date&Time" and then enter the date and time.

**Step 4:** Click Search

5. Configuration

5.13.2 Log Viewer – System Log



**System Log:** You can choose the log type from the drop-down menu, following is a complete list of all log types:

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| 1. Main Console Startup         | 16. Stop Live Streaming Server    |
| 2. Main Console Shutdown        | 17. Modify Live Streaming Server  |
| 3. User Login                   | 18. Start Remote Playback Server  |
| 4. User Login Failed            | 19. Stop Remote Playback Server   |
| 5. Start Schedule               | 20. Modify Remote Playback Server |
| 6. Stop Schedule                | 21. IP Camera Connection Lost     |
| 7. Execute Recycle              | 22. Auto Restart Windows          |
| 8. Enable Channel               | 23. Modify POS Setting            |
| 9. Disable Channel              | 24. POS Connection Lost           |
| 10. Start Smart Guard           | 25. Modify E-Map                  |
| 11. Stop Smart Guard            | 26. Start Remote Desktop          |
| 12. Modify Smart Guard          | 27. Stop Remote Desktop           |
| 13. Modify Schedule             | 28. Modify Remote Desktop         |
| 14. Modify Configuration        | 29. Start Central Management      |
| 15. Start Live Streaming Server | 30. Stop Central Management       |
|                                 | 31. Modify Central Management     |

**Step1:** Choose the type of event you want to check or select “All” from the drop-down menu for all types of events.

**Step 2:** Select search period.

For a particular data: check the “Date” box right and indicate the date.  
For a period: check the “Date&Time” and then enter the date and time.

**Step 3:** Click Search.

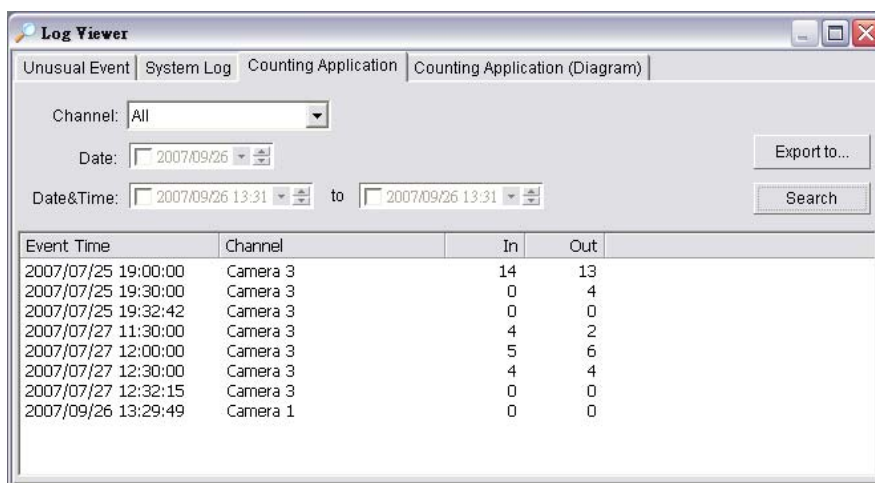


## 5. Configuration

### 5.13.3 Log Viewer - Counting Application

#### Counting Application:

Display the history of Counting Application during a given time period.



**Step1:** Select the channel you want to check or select "All" from the drop-down menu for all channels.

**Step 2:** Select search period.

For a particular data: check the "Date" box right and indicate the date.  
For a period: check the "Date&Time" and then enter the date and time.

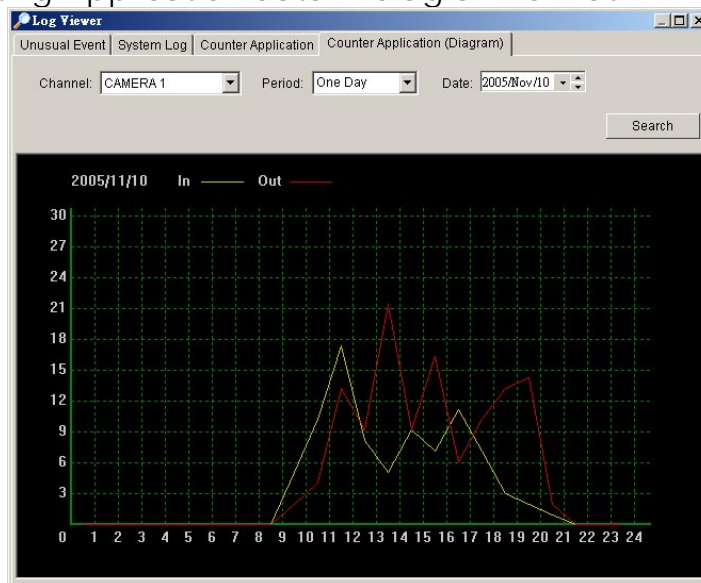
**Step 3:** Click Search.

### 5. Configuration

#### 5.13.4 Log Viewer - Counting Application (Diagram)

##### Counting Application (Diagram):

Display the Counting Application data in diagram format.



**Step 1:** Select the channel you want to check or select "All" from the drop-down menu for all channels.

**Step 2:** From the drop-down menu, set up how you would like the diagram to be displayed. You have the options of one day, one month, or one year.

**Step 3:** Select a specific date to make it the start point of the diagram.

**Step 4:** Click Search.

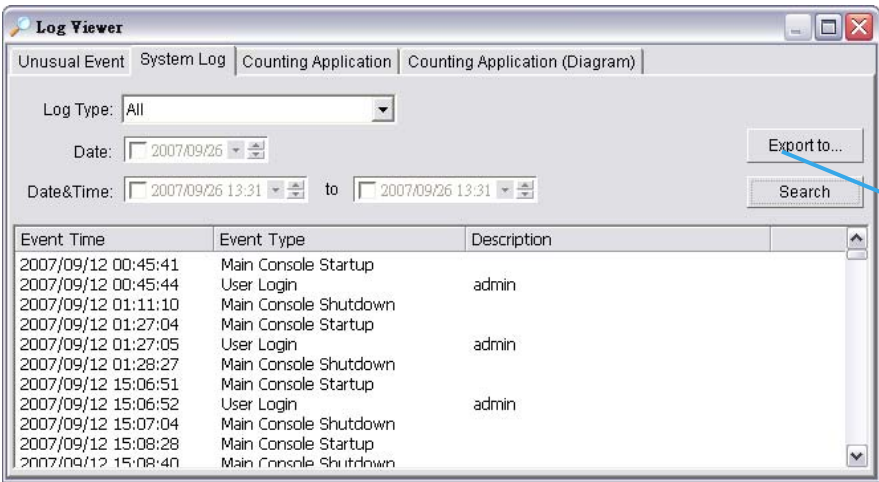
#### 5.13.5 POS Log

View the POS Log history that had been detected by the Smart Guard System, include Transaction Start, Transaction End, Open Cash Register, Connection Lost, and special User defined event. Please refer the User manual of POS for detail.

5. Configuration

5.13.6 Log Viewer - Export

After search the log you want, you can export to .xls or .txt file.



Step1: Press the button "Export to".

Step2: Type the file name and choose the file format (.xls or .txt).

D1					
	A	B	C	D	E
1	EventTime	EventType	Description		
2	2007/09/12 00:45:41	Main Console Startup			
3	2007/09/12 00:45:44	User Login	admin		
4	2007/09/12 01:11:10	Main Console Shutdown			
5	2007/09/12 01:27:04	Main Console Startup			
6	2007/09/12 01:27:05	User Login	admin		
7	2007/09/12 01:28:27	Main Console Shutdown			
8	2007/09/12 15:06:51	Main Console Startup			
9	2007/09/12 15:06:52	User Login	admin		
10	2007/09/12 15:07:04	Main Console Shutdown			
11	2007/09/12 15:08:28	Main Console Startup			
12	2007/09/12 15:08:40	Main Console Shutdown			
13	2007/09/12 15:08:54	Main Console Startup			
14	2007/09/12 15:09:01	Main Console Shutdown			
15	2007/09/12 15:14:11	Main Console Startup			
16	2007/09/12 15:14:12	Main Console Shutdown			
17	2007/09/12 15:14:31	Main Console Startup			
18	2007/09/12 15:15:20	Main Console Shutdown			
19	2007/09/12 19:44:15	Main Console Startup			
20	2007/09/12 19:44:58	Main Console Shutdown			
21	2007/09/12 22:51:57	Main Console Startup			
22	2007/09/12 22:51:59	Main Console Shutdown			
23	2007/09/12 22:52:14	Main Console Startup			
24	2007/09/12 22:52:18	User Login	admin		
25	2007/09/12 22:52:24	Main Console Shutdown			
26	2007/09/12 22:53:19	Main Console Startup			

.xls

```
2007/09/12 00:45:41, Main Console Startup,
2007/09/12 00:45:44, User Login, admin
2007/09/12 01:11:10, Main Console Shutdown,
2007/09/12 01:27:04, Main Console Startup,
2007/09/12 01:27:05, User Login, admin
2007/09/12 01:28:27, Main Console Shutdown,
2007/09/12 15:06:51, Main Console Startup,
2007/09/12 15:06:52, User Login, admin
2007/09/12 15:07:04, Main Console Shutdown,
2007/09/12 15:08:28, Main Console Startup,
2007/09/12 15:08:40, Main Console Shutdown,
2007/09/12 15:08:54, Main Console Startup,
2007/09/12 15:09:01, Main Console Shutdown,
2007/09/12 15:14:11, Main Console Startup,
2007/09/12 15:14:12, Main Console Shutdown,
2007/09/12 15:14:31, Main Console Startup,
2007/09/12 15:15:20, Main Console Shutdown,
2007/09/12 19:44:15, Main Console Startup,
2007/09/12 19:44:58, Main Console Shutdown,
2007/09/12 22:51:57, Main Console Startup,
2007/09/12 22:51:59, Main Console Shutdown,
2007/09/12 22:52:14, Main Console Startup,
2007/09/12 22:52:18, User Login, admin
2007/09/12 22:52:24, Main Console Shutdown,
2007/09/12 22:53:19, Main Console Startup,
```

.txt

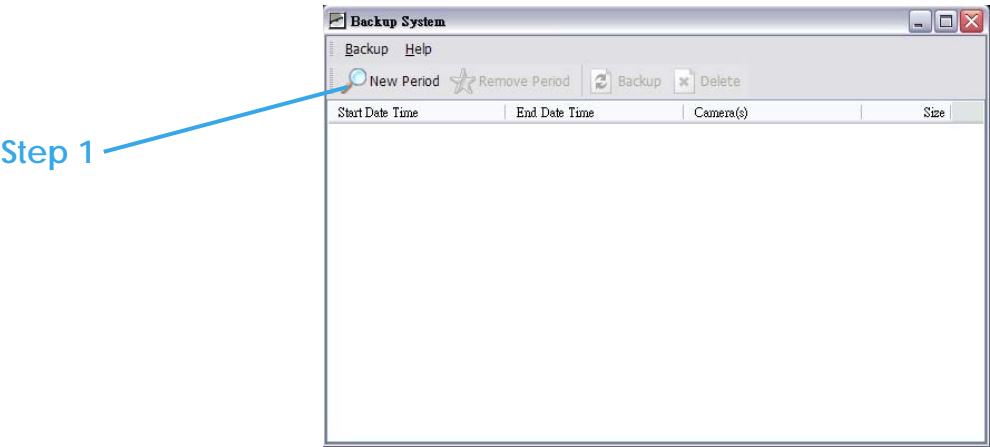
5. Configuration

5.14 Backup

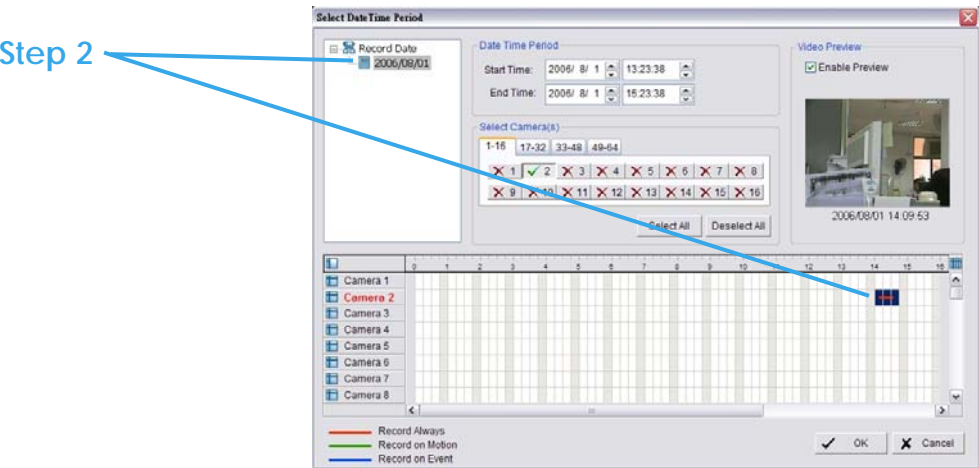
5.14.1 Backup

The backup function saves video record and other log information. User may open backup files on any PC with Windows Operation System and operate the full function Playback panel on it. Follow the instructions below to obtain backup files.

Step 1: Click on “New Period” to obtain the Select DateTime Period panel.



Step 2: From the record date section, select the date you want to backup from. You will see color lines appear in the time table implying available data recorded. Red, green, and blue stands for record always, record on motion, and record on event data files, respectively.



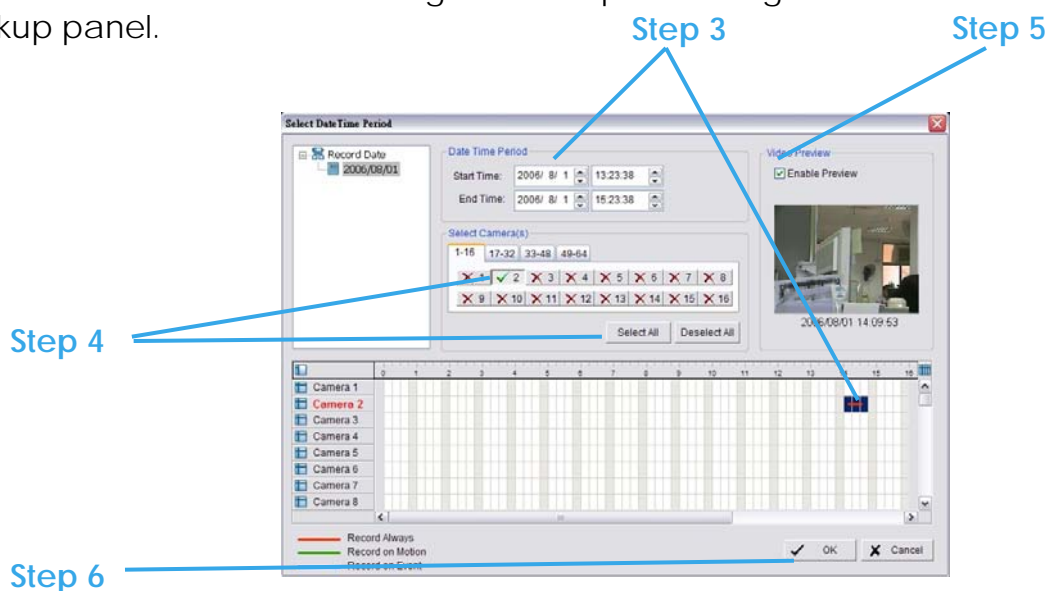
## 5. Configuration

**Step 3:** Select the data you want to backup by highlighting the time period. Besides the time-table, you may also set up start time and end time in the Date Time Period section.

**Step 4:** Click on the camera number icon to add camera(s) or click Select All to add all the cameras.

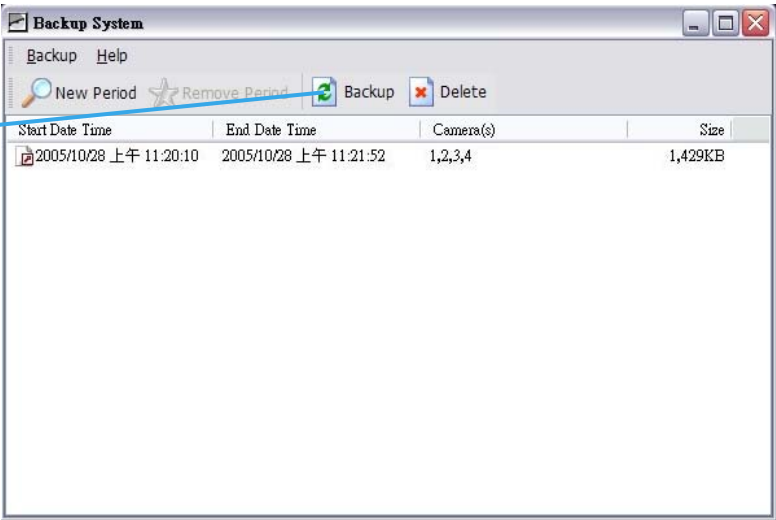
**Step 5:** Check the box of Enable Preview to get the preview of the video you select.

**Step 6:** Click OK when the settings are complete and go back to the Backup panel.



5. Configuration

Step 7



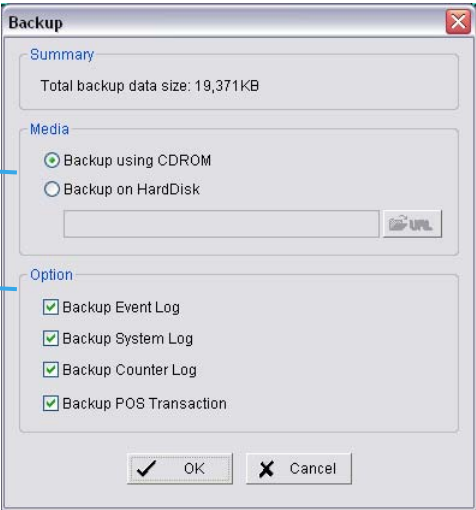
Step 7: Click the Backup icon to see the size of the file.

Step 8: Choose the path you want to save the file or burn the file into a CD (direct CD burning for Windows XP only).

Step 9: Select the log information you would like to backup (Event Log, System Log and/or Counter Log) and then click OK.

Step 8

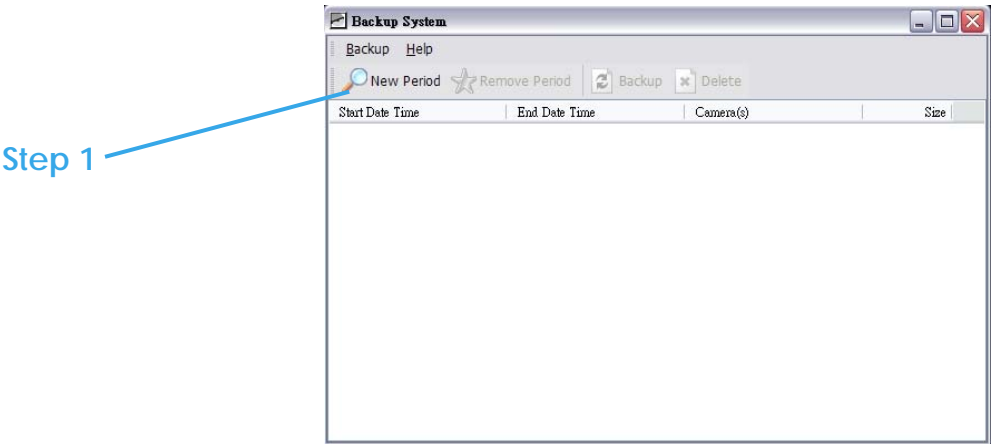
Step 9



5. Configuration

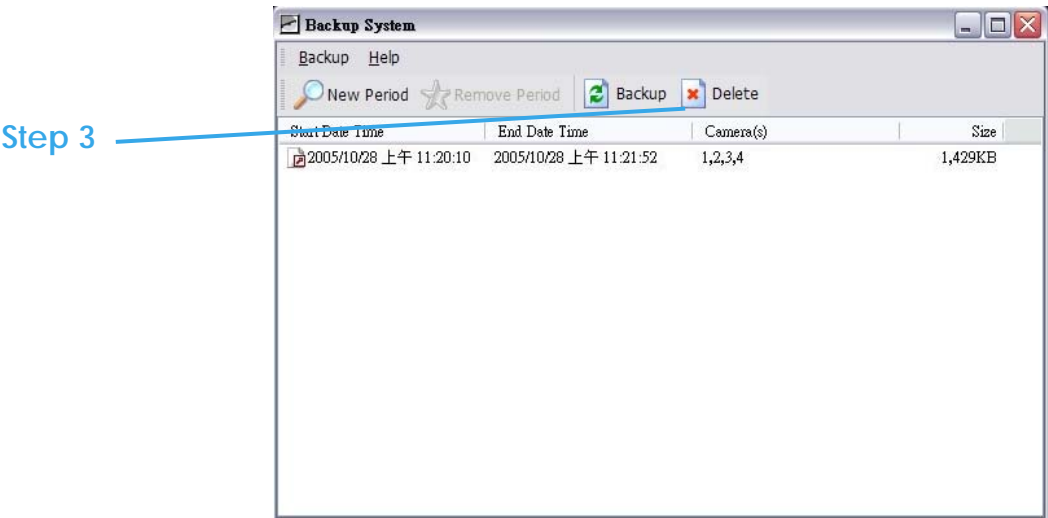
5.14.2 Delete Recorded Information from the System

Step 1: Click on “New Period” to obtain the Select Date Time Period panel.



Step 2: Follow above step 2-6 to select data period which you want to delete.

Step 3: Click on the “Delete” icon and delete the data.  
*Note:* the deleted video cannot be recovered.



## 5. Configuration

### 5.15 Network Service

There are 5 types of network services: live streaming server, remote playback server, 3GPP service, Remote Desktop, and Central Management Service. From the Main Console, go to Config > Network Service to obtain the Network Service panel.



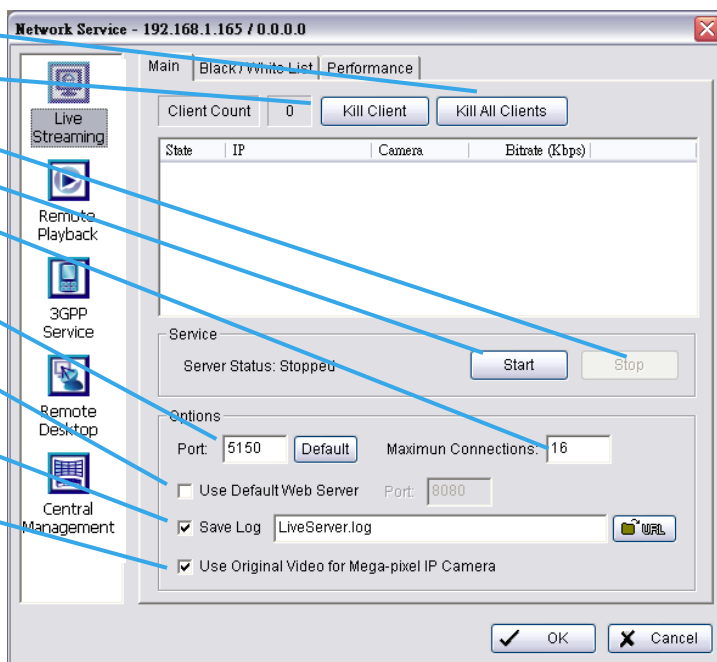
#### 5.15.1 Live Streaming Server

When starting the live streaming function of your computer, you allow remote users to log on to the specific computer and view cameras that are connected to it. As system administrator, you are able to monitor these accounts in order to maintain the system efficiency.

#### Main

On Live Streaming Server panel, you can see the clients who are currently logging on to your computer and watching the live video from the remote side.

- Kill All Clients
- Kill Client
- Stop
- Start
- Maximum Connections
- Port
- Use Default Web Server
- Save Log
- Use Original Video for Megapixel IP Camera





## 5. Configuration

**Start:** By starting the system, you turn the computer into a live streaming server; thus allow remote users to log on to the system.

**Kill Client:** Highlight an IP address and click on the "Kill Client" button to block a client from your system.

**Kill All Clients:** By clicking on this button, you may block all the clients logging to your system.

**Stop:** Stop broadcasting live stream video.

**Options:** You may only adjust the setting when the server is stopped.

**Port:** Assign a port for the clients to connect to your system to the network.

**Maximum Connections:** Number of connections that are allowed to connect to your system. Default is 16 channels and maximum is 128, one camera video counts as one connection.

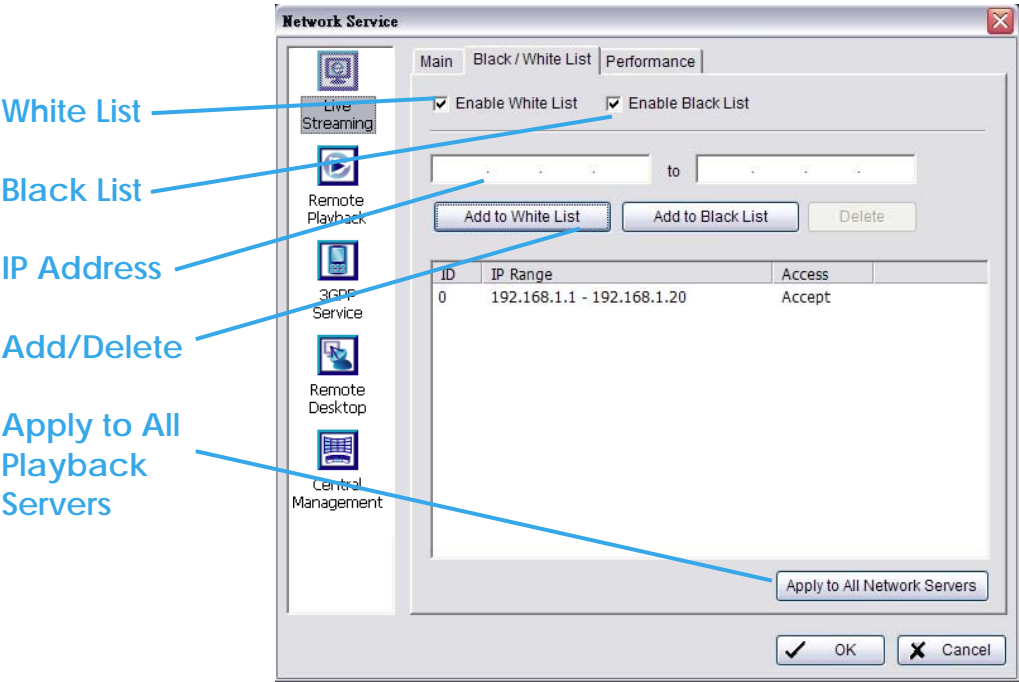
**Use Default Web Server:** Activate the Web server by checking the box; clients will be able to watch live video via Internet Explorer. The port for live streaming server is set to 80 by default. (\*must check this item for system access via IE)

**Save Log:** Save the log information at appoint folder.

**Use Original Video for Megapixel IP Camera:** Check this box for original megapixel resolution; otherwise, the resolution will be compressed for better transmitting quality purpose.

5. Configuration

Black/ White List



**White List:** Check the “Enable White List” box to activate the white list filter. Only IP from the white list is allowed to log in.

**Black List:** Check the “Enable Black List” box to activate the black list filter. IP from the black list will be blocked.

**IP Address:** Enter an IP address into the IP address field on the left. To add an IP address range to the system, enter 2 sets of IP address to indicate a series of IPs.

**Add/Delete:** To Add the IP(s) onto the list or remove it from the list.

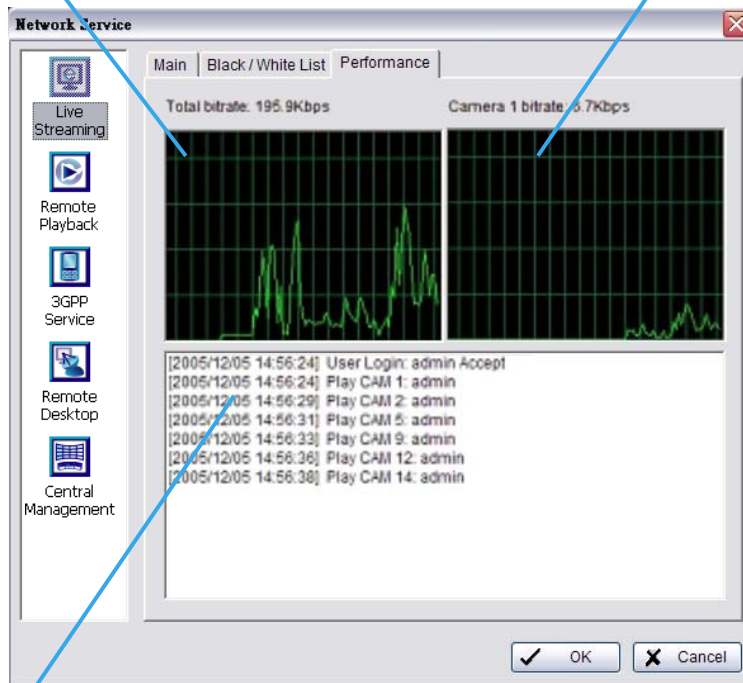
**Apply to All Playback Servers:** To apply the setting to both live streaming server and remote playback server.

## 5. Configuration

### Performance

Total bit rate

Individual Camera bit rate



Live Streaming Server log information

5. Configuration

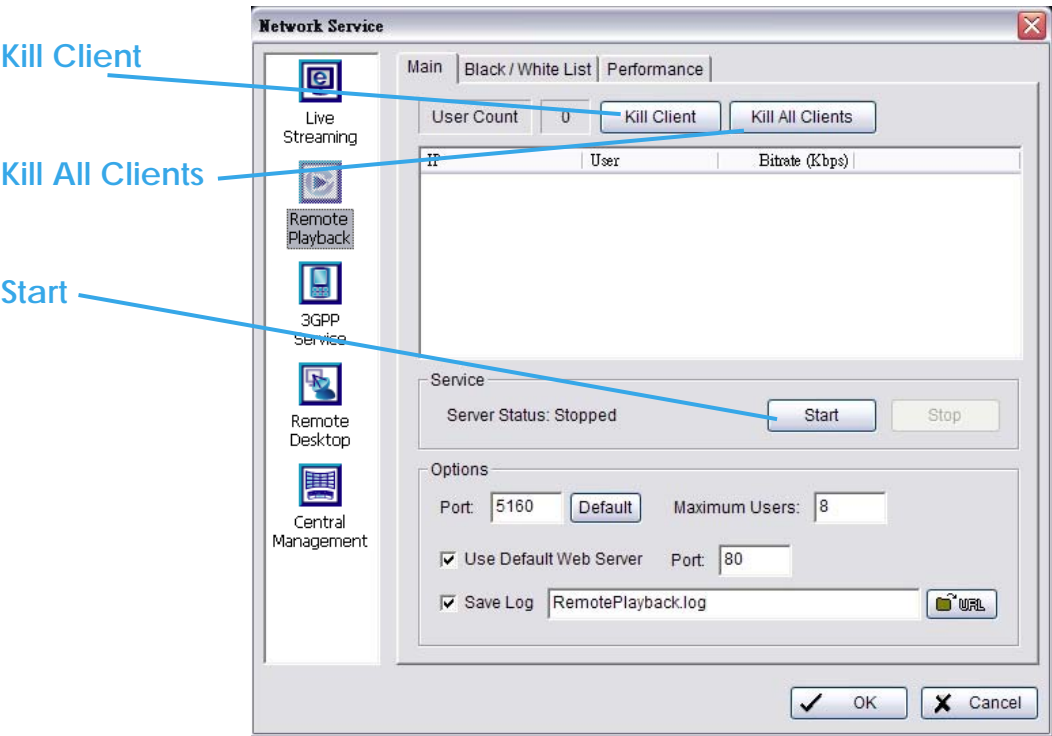
5.15.2 Remote Playback Server

When starting the remote playback function of your computer, you allow remote users to log on to the specific computer and withdraw data files that are stored on it. As system administrator, you are able to monitor the accounts that log on in order to maintain the system efficiency.

Main

On Remote Playback Server panel, you can see the clients who are currently logging on to your computer and watching the live video from the remote side.

**Start:** By starting the system, you turn the computer into a remote playback server; thus allow remote users to access the system.

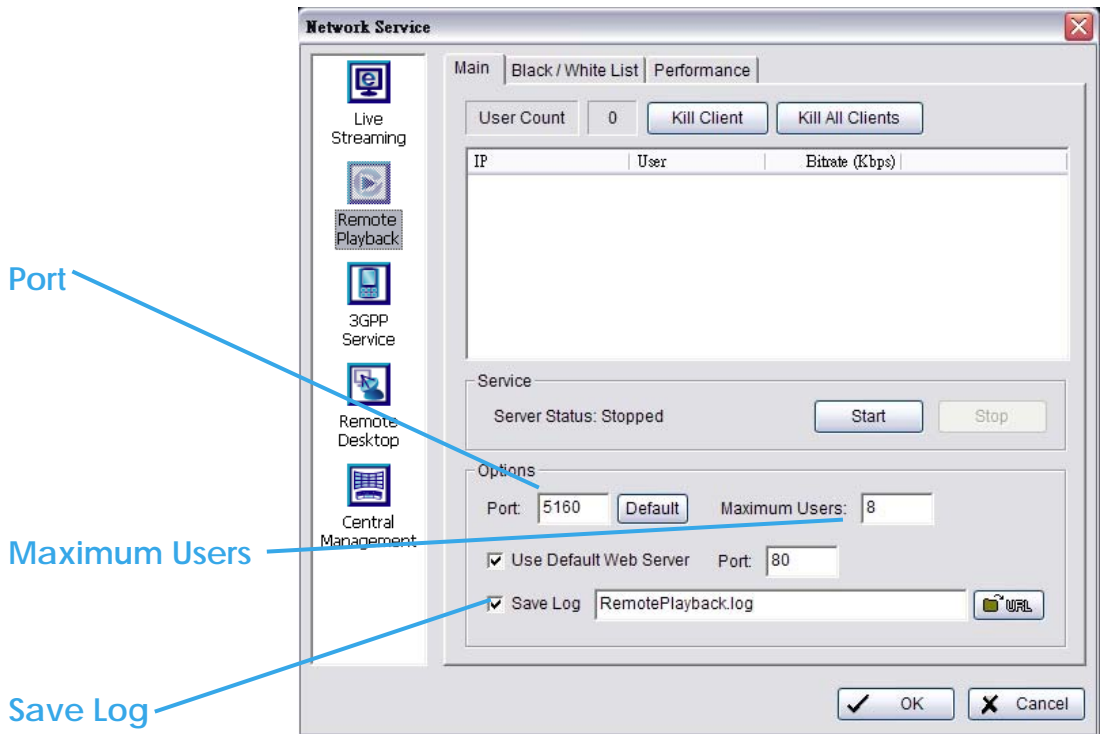


**Kill Client:** Highlight an IP address and click on the “Kill Client” button to block a client from your system.

**Kill All Clients:** By clicking on this button, you may block all the clients logging to your system.

## 5. Configuration

**Stop:** Stop broadcasting playback video.



**Options:** You may only adjust the setting when the server is stopped.

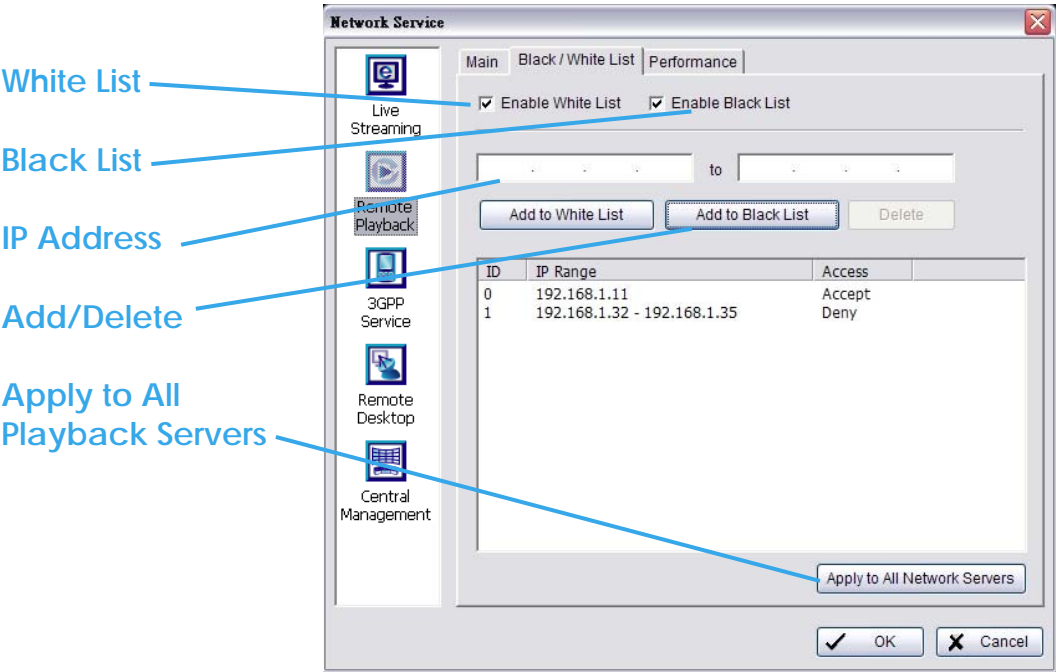
**Port:** Assign a port for the remote playback server to connect to your system to the network.

**Maximum Connections:** Number of connections that are allowed to connect to the Remote Playback Server. Default is 8 account and maximum is 64, one account counts as one connection.

**Save Log:** Save the log information at appoint folder.

5. Configuration

Black/ White List



**White List:** Check the “Enable White List” box to activate the white list filter. Only IP from the white list is allowed to log in.

**Black List:** Check the “Enable Black List” box to activate the black list filter. IP from the black list will be blocked.

**IP Address:** Enter an IP address into the IP field on the left. To add an IP range to the system, enter 2 sets of IP to indicate a series of IPs.

**Add/Delete:** To Add the IP(s) onto the list or remove it from the list.

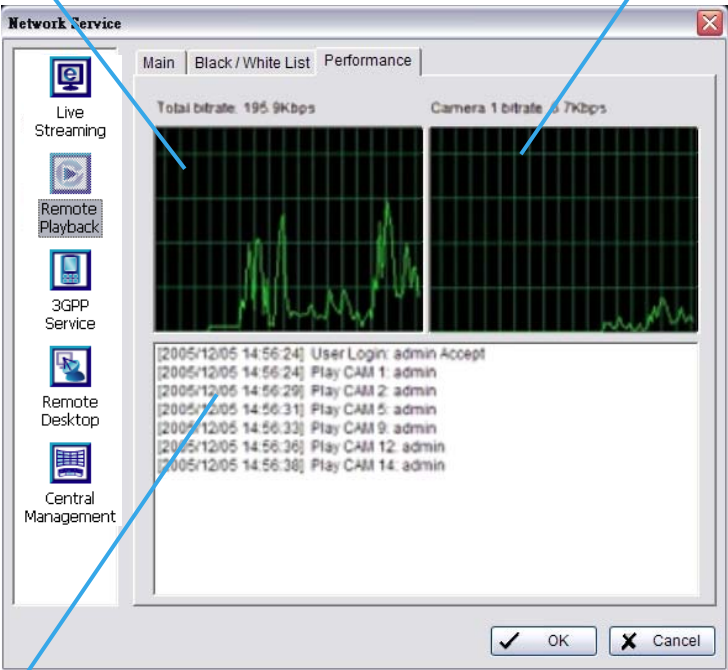
**Apply to All Playback Servers:** To apply the setting to both live streaming server and remote playback server.

5. Configuration

Performance

Total bit rate

Individual Camera bit rate

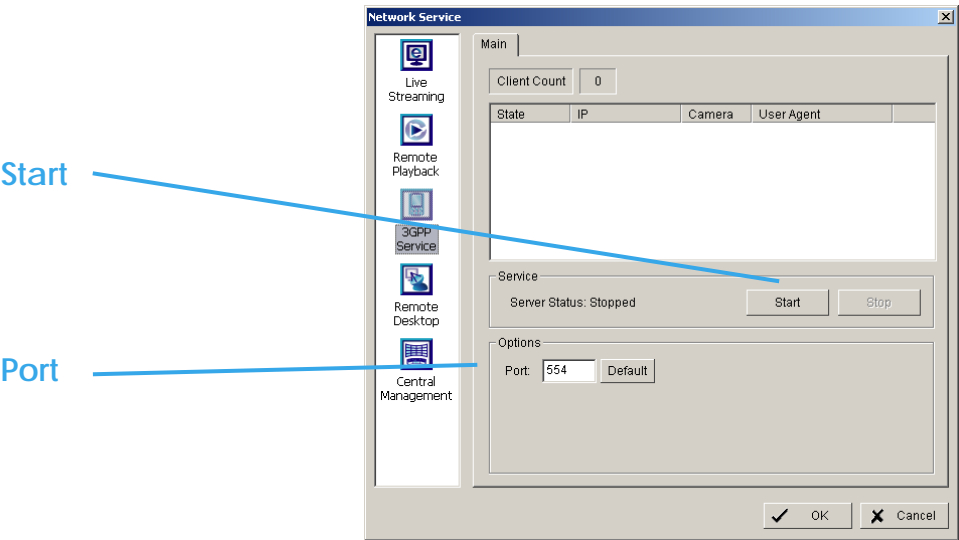


Live Streaming Server log information

5. Configuration

5.15.3 3GPP Service

When starting the 3GPP service function of your computer, you allow remote users to log on the 3GPP supported mobile phone and view cameras that are connected to it. See Appendix A for more details about 3GPP Service.



**Start:** By starting the system, you turn the computer into a remote playback server; thus allow remote users to access the system.

**Stop:** Stop broadcasting playback video.

**Options:** You may only adjust the setting when the server is stopped.

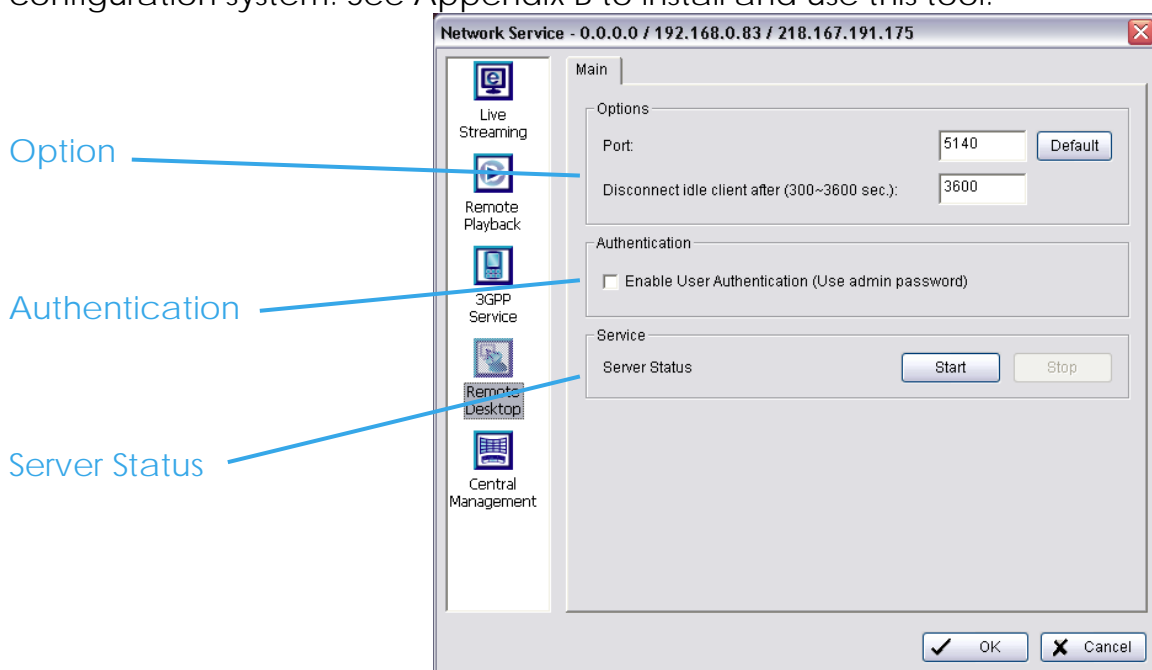
**Port:** Assign a port for the clients to connect to your system to the network.



## 5. Configuration

### 5.15.4 Remote Desktop

When starting the Remote Desktop option of your computer, you allow remote users to use NUUO Remote Desktop Tool to login and configuration system. See Appendix B to install and use this tool.



#### Options

**Port:** Assign a port for NUUO Desktop tool to login and configure system.

**Disconnect idle client after (300~3600 sec):** Auto discount the on-line user who idled more than setting period.

#### Authentication

Enable this option would only allow admin account to use NUUO Desktop tool to login system.

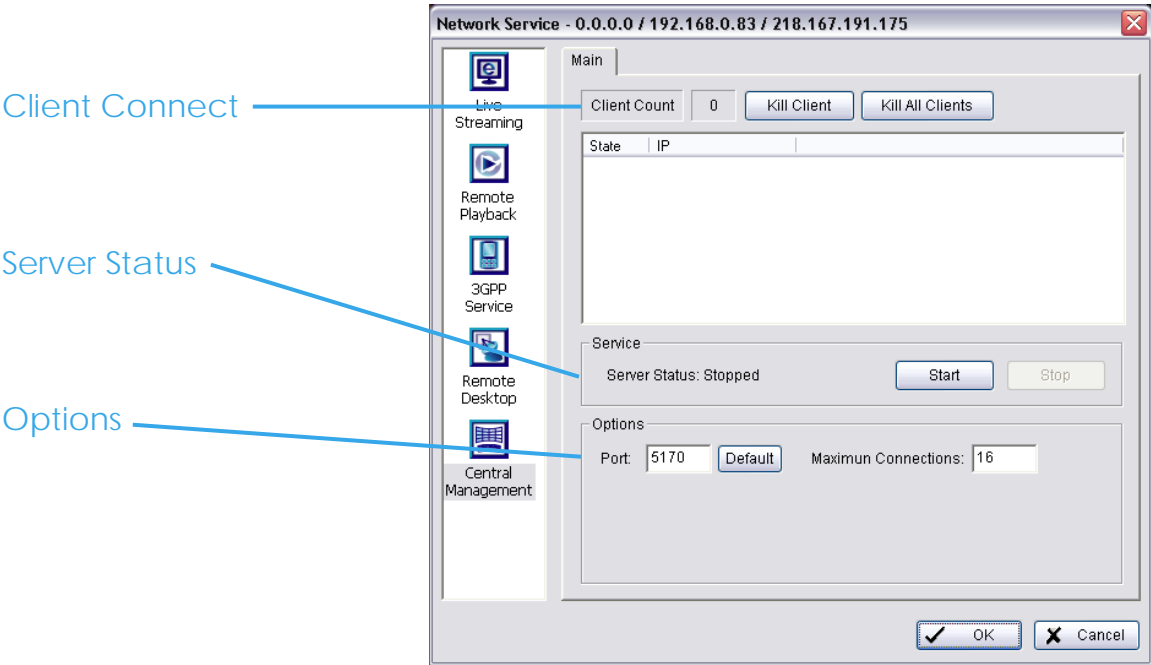
#### Server Status

Click on Start/Stop to turn on/off this option.

5. Configuration

5.15.5 Central Management Service

This service only supports **NUUO Central Management System** (NCS). When starting the Central Management Service option of your computer, the Main Console would send event which set action send to central management to NCS Server and allow NCS system to remote control IO device.



Client connect option

**Client Count:** Show total connect servers amount.

**Kill option:** Highlight an IP address and click on the “Kill Client” button to block a client from your system. Or click on the “Kill All Clients” button to block all clients.

Server Status

Click on Start/Stop to turn on/off this option.

Options

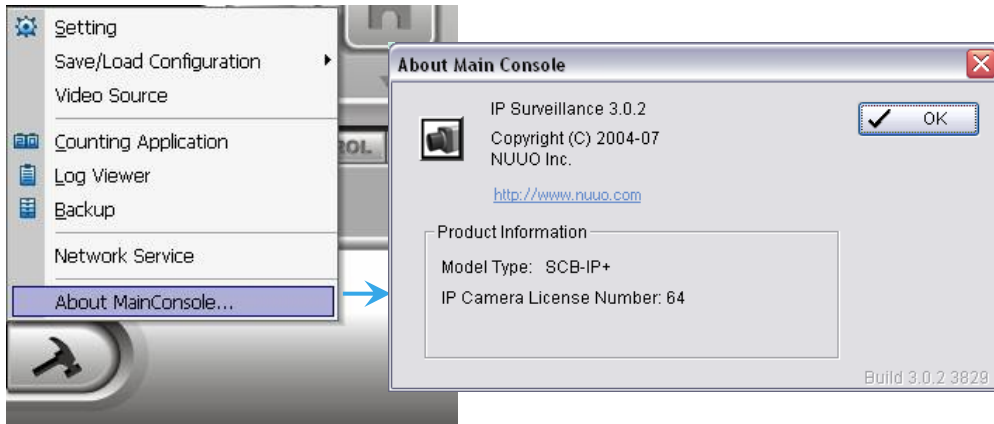
**Port:** Assign a port for NCS System to connect Main Console system.

**Maximum Connection:** Number of connections NCS Servers that are allowed to connect to your system. The default is 8 NCS Servers and maximum is 16.

## 5. Configuration

### 5.16 About Main Console

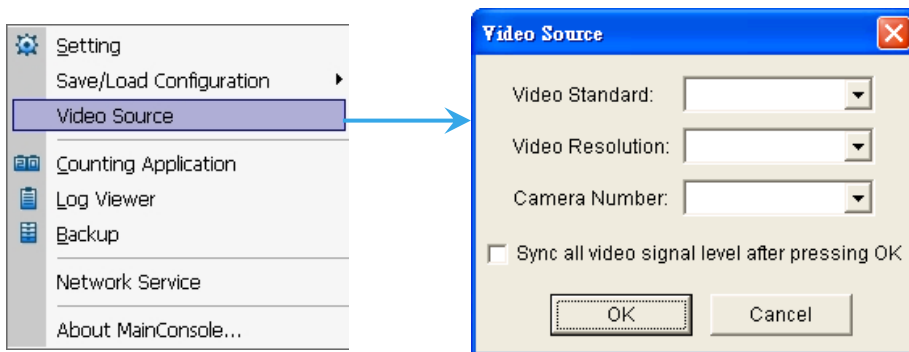
Go to About Main Console to view the version of your surveillance system and the hardware information.



### 5.17 Video Source

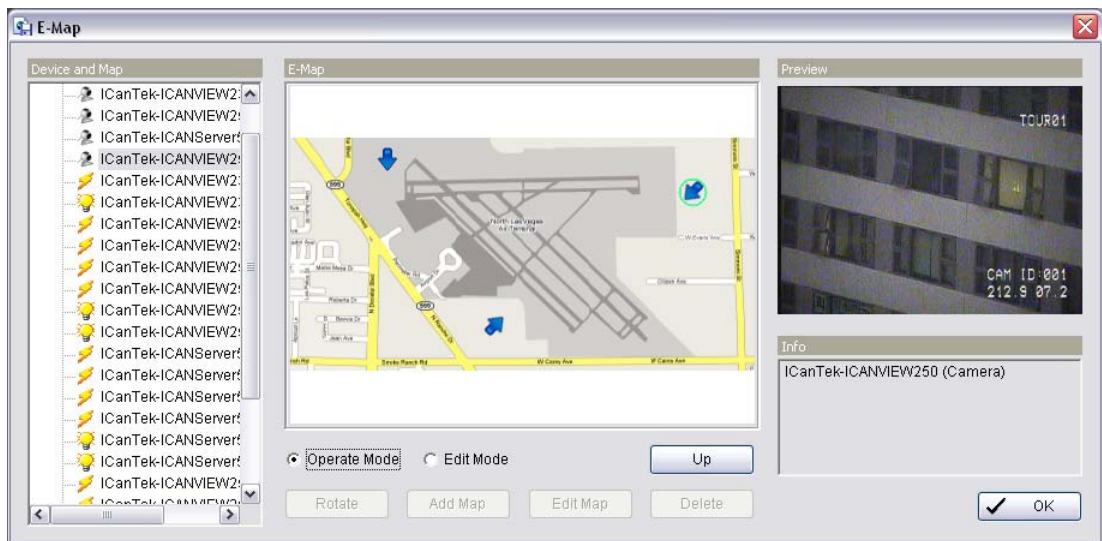
(For system with MP4 capture device only)

1. Go to Video Source to adjust the Video Standard to NTSC or PAL and adjust the maximum Video Resolution for all analog cameras.
2. Add new cameras in Camera Number.
3. Click Sync and press OK to synchronize video signal level.



## 6. E-Map

## 6. E-Map



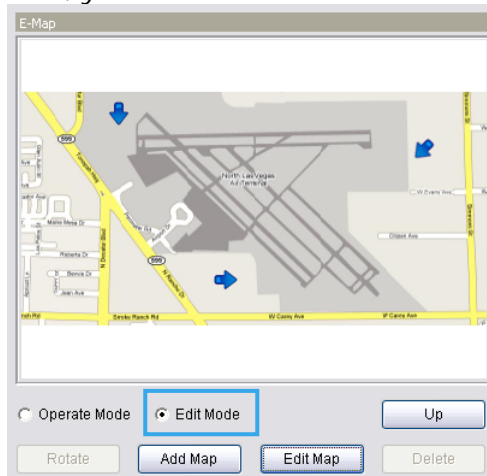
With E-Map, user can easy to find up devices. And instance response when event happened.

To launch E-Map application, simple click on start and select E-Map form start menu to open E-Map window.

## 6. E-Map


### 6.1 Edit Mode

To carry out edit function, you need to be in **Edit Mode**.



#### 6.1.1 Add/Edit/Delete Map


To add E-Map

- Step 1:** Ensure be in **Edit Mode** and all devices are inserted.
- Step 2:** Select on the icon for the map , then click "Add Map" button.
- Step 3:** Enter the required details.




- Step 4:** Click "OK". The map you added appears in the tree structure of the list window.
- Step 5:** The map indicator appears on the left-up corner of parent map. Drag it to the position you want.

To Edit E-Map

- Step 1:** Ensure be in **Edit Mode** and all devices are inserted.
- Step 2:** Select on the icon for the map , and then click "Edit Map" button.
- Step 3:** Edit the required details, and then click "OK" to save configuration.





### 6. E-Map

#### To Delete E-Map


- Step 1:** Ensure be in **Edit Mode** and all devices are inserted.
- Step 2:** Select on the icon for the map , and then click "Delete" button.

#### 6.1.2 Add/Rotate/Delete Device Indicator


#### To Add Indicator

- Step 1:** Ensure be in **Edit Mode** and all devices are inserted.
- Step 2:** Select on the icon for the map  which you want add device indicator to.
- Step 3:** Before add indicator, ensure that the map you want is displayed. Select device form list and directly drag a device to the desired location on the map.
- Step 4:** The device you added appears in the tree structure of the list window.  - Camera indicator,  - digital Input indicator,  -POS indicator.

#### To Rotate Indicator

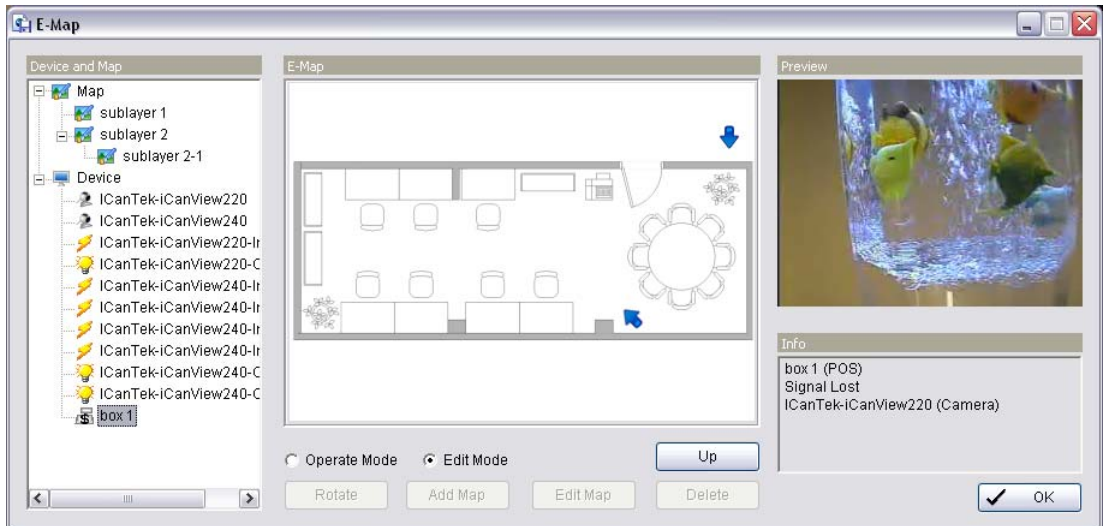
- Step 1:** Ensure be in **Edit Mode** and all devices are inserted. Select device indicator form map or form Device and Map list. The device indicator will make as a green ring .
- Step 2:** Click "Rotate" button, the indicator will rotate 45 degree.
- Note:** Only camera indicator allow to use rotate function.

#### To Delete Indicator

- Step 1:** Ensure be in **Edit Mode** and all devices are inserted. Select device indicator form map or form Device and Map list. The device indicator will make as a green ring .
- Step 2:** Click "Delete" button, the indicator will disappear form map.






## 6. E-Map

### 6.2 Operate Mode



#### Device and Map Tree list

This window will list all devices and map hierarchy; click list will show related information on right windows.

-  **Map** – Selected which map you want to show on E-Map Window.
-  **Camera** – Select which camera you want to preview video on preview window and mark indicator on E-map.
-  **Digital Input** – Select to show indicator and status on Info window. If the Digital Input is from IP camera, the preview window will display live video of camera.
-  **Digital Output** – Select to show indicator and status on Info window. If the Digital Output is from IP camera, the preview window will display live video of camera.
-  **POS** – Select to show indicator and display first associated camera live video.






#### E-Map picture

This window will show the map layer and indicators

- Indicator** – Select device indicators will as select device form Device and Map Tree to show related information on Preview and Info Windows.
- Map** – Select map indicator will enter the next map layer. If you want move to upper layer, simply click on **Up** button.

### 6. E-Map

#### Information and Preview window

-  **Map Info** – Show map name.
-  **Camera** – Show camera name and connecting status.
-  **Digital Input** – Show Digital Input name and status (0 or 1).
-  **Digital Output** – Show Digital Output name and status (0 or 1).
-  **POS** – Show POS device name, connecting status and first associated camera name and connecting status.



## 7. Remote Live Viewer

# 7. Remote Live Viewer



With the Remote Live Viewer console, remote users may watch real-time video from remote live streaming servers.

#### 7.1 Setup Panel



Click on the setup icon to obtain the setup panel

##### 7.1.1 Setup Panel—Server

Server Setting

The Server Setting:

**Step 1:** Enter the Server Name which you want to use.

**Step 2:** enter the Address, Port, User Name, Password which you want to use to log in server.

**Step 3:** Enable the Save Password if you don't want enter the password again when login. Also can enable Auto Login option to auto login when start the Remote Live Viewer.

**Step 4:** Click on Test Server to check the server setting is available.

## 7. Remote Live Viewer

**Step 5:** Click add to insert the setting to server list.

**Step 6:** Select a server from right server list, change the setting on light panel and click update to modify setting. Or click Delete to remove the server from server list after selecting one server.

**Note:** If you want to Re-open the Remote Live Viewer on the secondary monitor, please enable the Re-open Remote Live Viewer on 2<sup>nd</sup> Monitor.

### 7.1.2 Setup Panel—Group

You may put different cameras into the same group

**Step 1:** Go to the Group tab of the LiveView Setting panel.

**Step 2:** Log in to all the servers that contain the camera(s) you would like to put into the group(s).

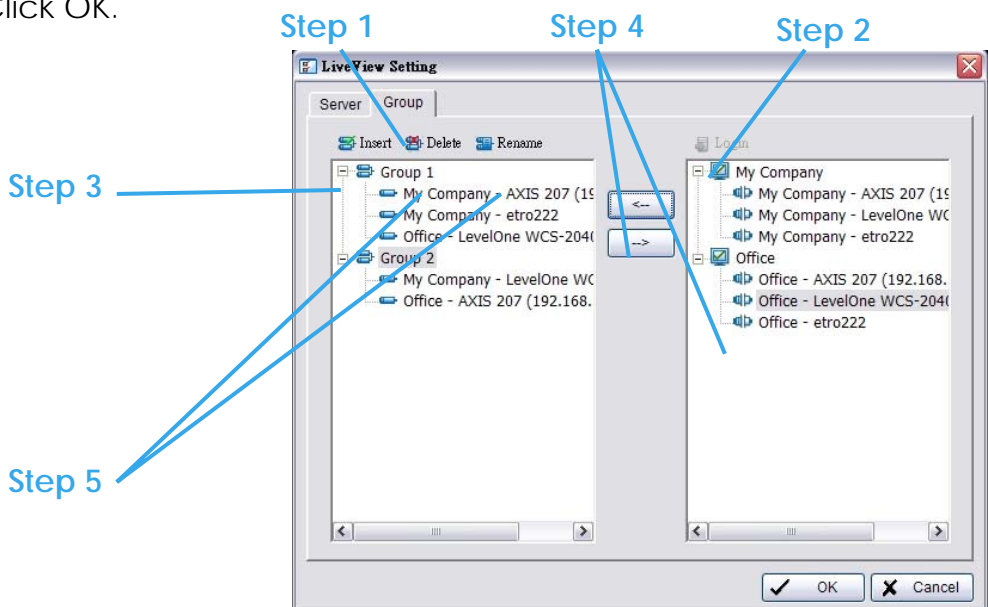
**Step 3:** Click "Insert" to create a new group; name the group for future reference.

**Step 4:** From the window at the right, highlight the camera(s) that you would like to add to a group and then click on the "<--" button. Repeat the process until you are satisfied with the group setting.

**Step 5:** Click on the Delete and Rename button to remove or rename a specific group.

**Step 6:** Repeat Step 3 to 5 until you are done with creating and setting groups.

**Step 7:** Click OK.



### 7. Remote Live Viewer

#### 7.1.3 Setup Cameras OSD

You may adjust font style on this panel,

**Step 1:** Enable camera OSD option.

**Step 2:** Select the font, font size, font color and any font effects desired.

**Step 3:** Select the information that you wish to see in the sub-screen of the camera.

#### 7.1.3 Setup Remote Joystick Control

Please switch to Joystick tab and the configuration is the same as on Main console, please refer page 82.

Note: The difference of Main Console is that the action of Goto camera option in Remote Live View is going to view of layout. Following is a complete list of all log types:

#### 7.2 Show Camera(s) On the Display Screen

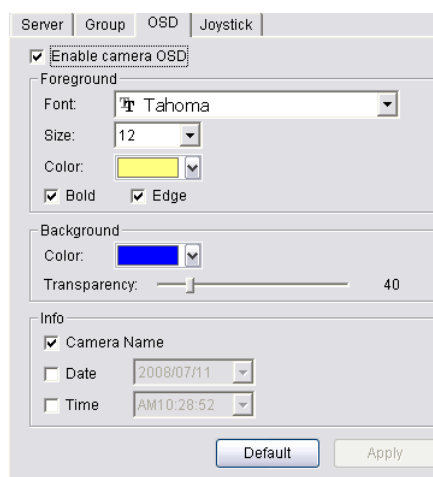
Select a camera(s) from the server/ camera list on the right and then drag it to where you want the image to be displayed.

On the server/ camera list, right click on a camera to connect/ disconnect it.

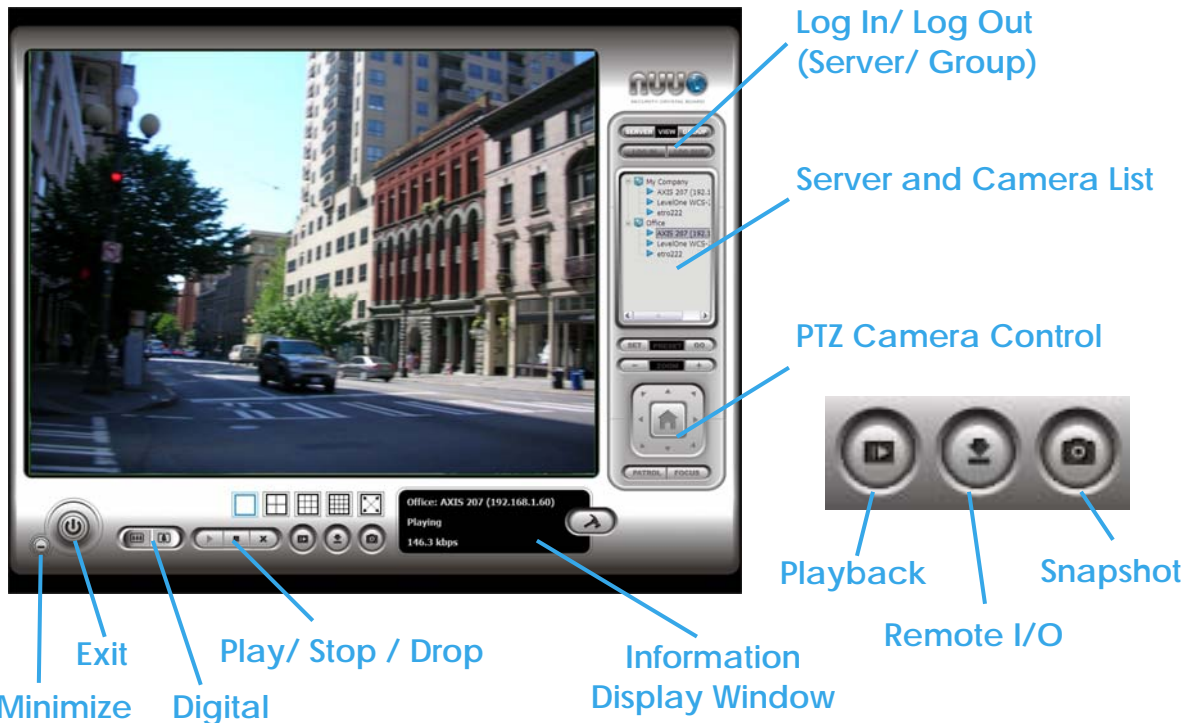
**Log In/ Log Out:** Select a server or a group and click on the log in/ out icon to access/ leave the server. You may also log in/ out from the server by right clicking on it.

**Server and Camera List:** Display a complete list of the server(s) and camera(s) that are added to the system.

**PTZ Camera Control:** You may control the camera view by utilizing the PTZ camera control panel to adjust the camera's view. This is only available with cameras that support PTZ function.



## 7. Remote Live Viewer



**Minimize:** Minimize the Remote Live View Console window.



**Exit:** Shut down the system or log out current user.




**Digital Zoom:** Click on the + and - signs to zoom in and out the view.

**Play / Stop/ Drop:** Select a camera/ video and click on this button to play/stop/disconnect a particular channel.

**Information Display Window:** Display video information including server name, video current status, and bit rate for a selected channel.

**Playback:** View playback video remotely.

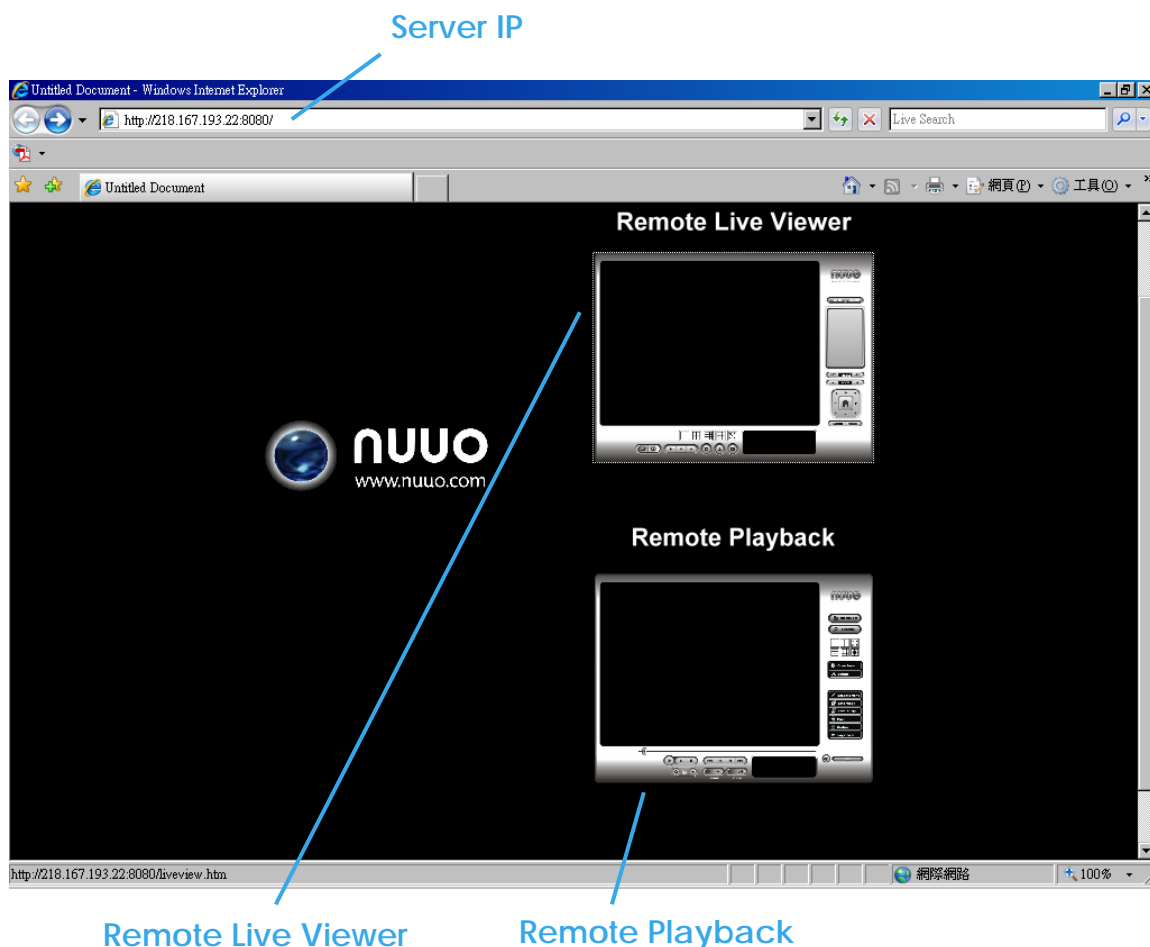
**Remote I/O:** User can remote adjust the Output Pins by turning it on or off (click on Status to turn  on or  off).

IO Devices		
Servers: New Server		Output pins
Device	Pin name	Status
210.193.60.169	Output 0	 OFF
210.193.60.169	Output 1	 OFF
LevelOne WCS-201...	Output 0	 OFF

**Snapshot:** Select the snapshot function to capture a specific video image immediately.

## 8. Web View

## 8. Web View



**Note:** Must make sure the Liver Stream Server is enabled. Check 5.15 Network Service for more detail.

**8.1 Server IP:** Open an Internet Explorer browser and enter the IP address or DDNS "name" of the server followed by the connecting port.  
Example: <http://192.168.1.16:8080/>

**Note:** 192.168.1.16 is the IP address of the server.  
8080 is the port specified in "Use Default Web Server" in Network Service.

## 8. Web Viewer

**8.2 Remote Live Viewer:** Press this icon to use Remote Live Viewer which functions are the same as Remote Live Viewer. See page 112.

**8.3 Remote Playback:** Press this icon to use Remote Playback which functions are the same as Playback but remote server and backup functions. See page 23.

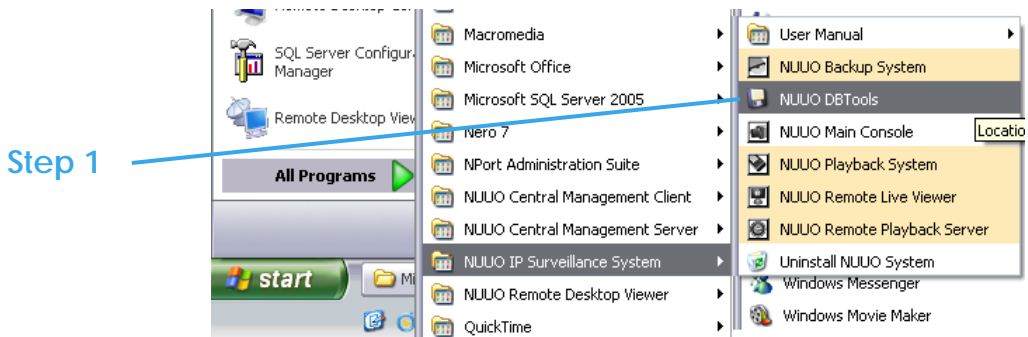
## 9. DB Tool

## 9. DB Tool

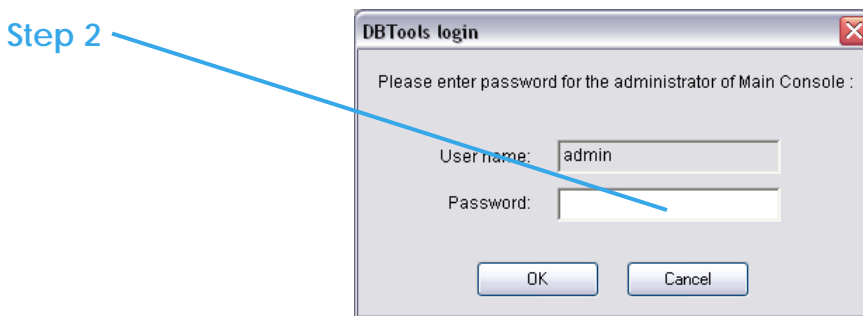
The DB Tool Export/import database files; Export configurations; and Edit storage location.

**Warning** : improper use of this DB Tool may cause lose of the recorded video data.

**Step 1:** Execute DB Tool from program files.



**Step 2:** Enter the password of administrator to login.





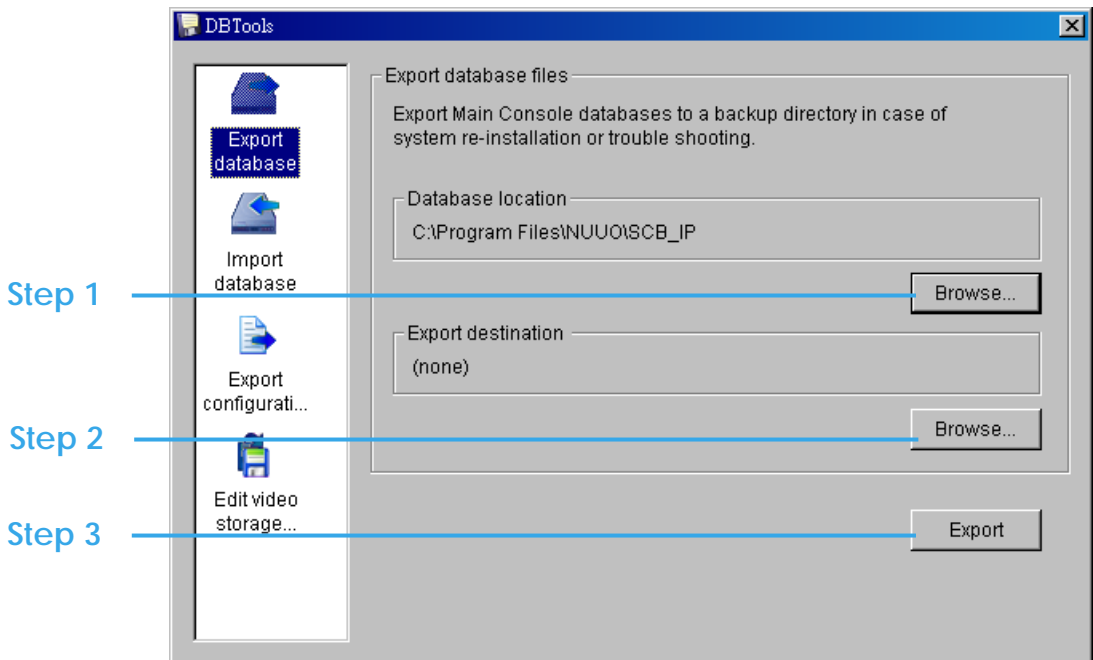
## 9. DB Tool

### 9.1 Export Database

**Step 1:** Select system database location (generally they will reside in c:\program files\your\_installation\_directory\).

**Step 2:** Select the destination you want to export.

**Step 3:** Press "Export" to start to export database.

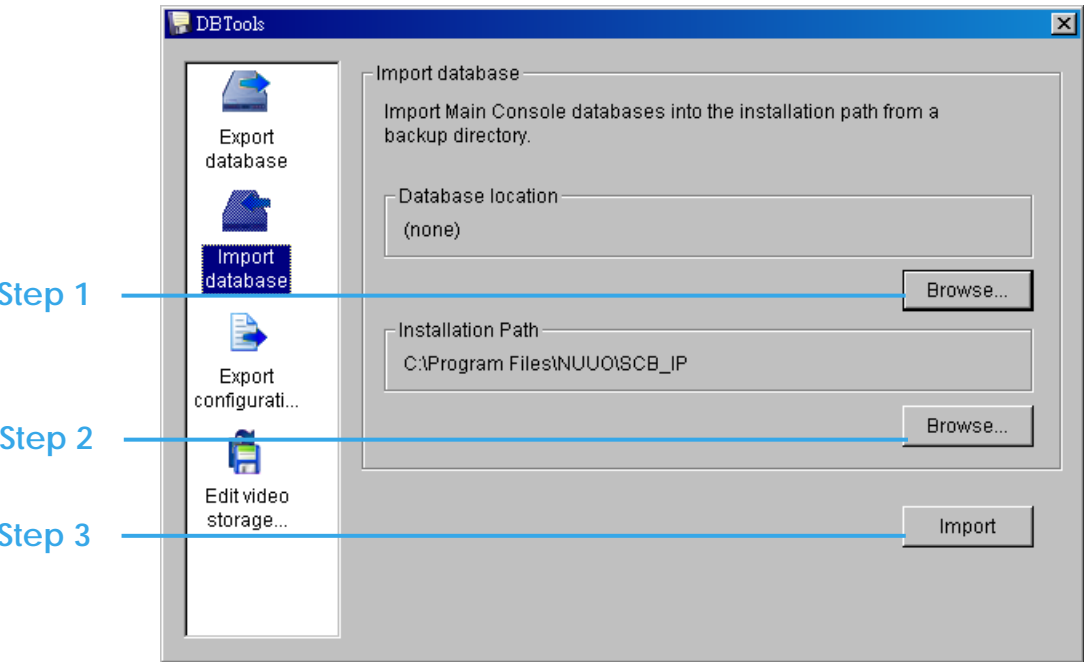


9.2 Import Database

Step 1: Select the database location you want to import.

Step 2: Select the installation path you want to import.

Step 3: Press “Import” to start to import database.

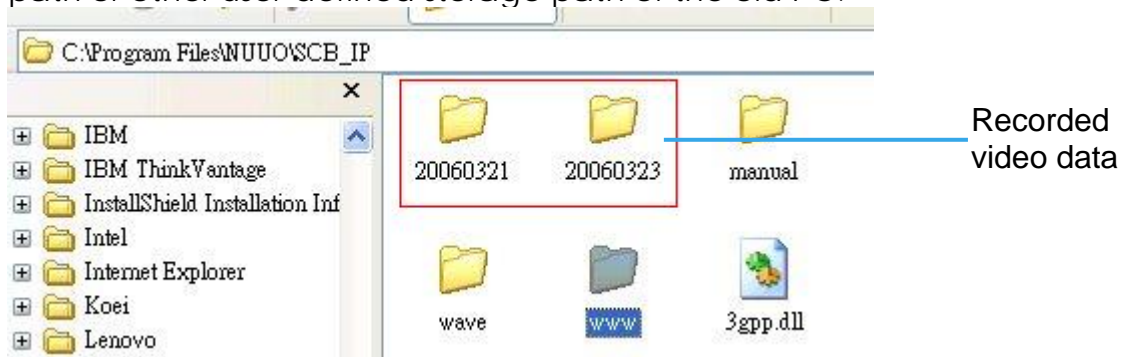


## 9. DB Tool

### Example of using export database and import database:

In certain case that when video data needs to be transfer from old PC to another new PC, user will need to perform the following procedure.

1. Manually copy all recorded video data from the default installation path or other user-defined storage path of the old PC.



2. Run "8.1 Export database" on old PC.

3. Manually paste all recorded video data to the default installation path or other user-defined storage path of the new PC

4. Run "8.2 Import database" on new PC

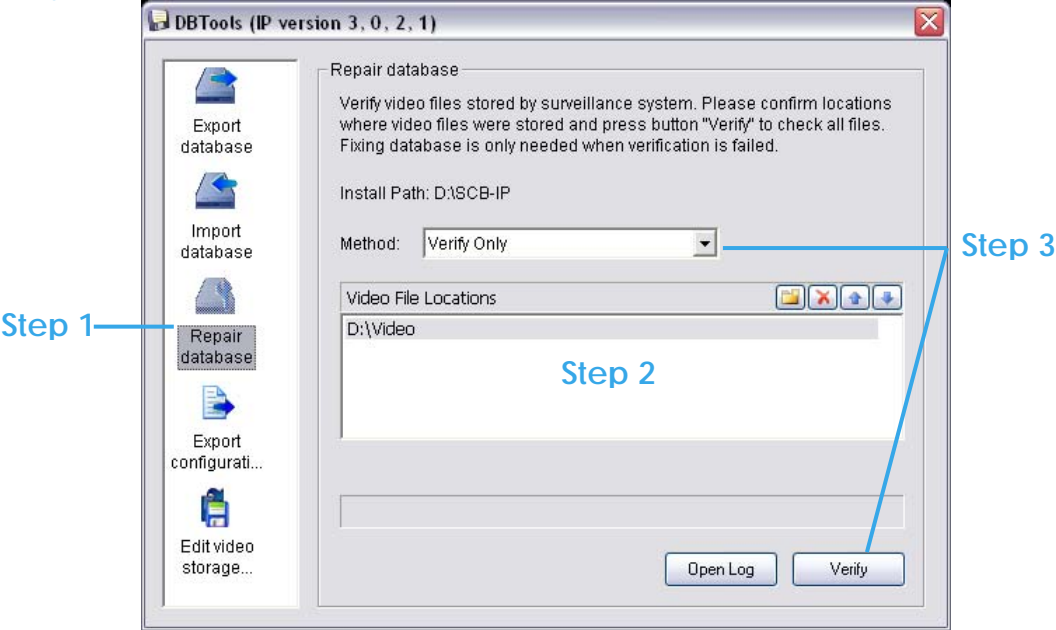
5. Old recorded video data can be viewed by NUUO playback system on the new PC.

9.3 Repair Database


This tool is using when your system have below problem:

- (1) If there are records in database, but no video file, use this DB Tools to delete records.
- (2) If there are video files but no record in database, use this DB Tools to rearrange the database and find these records.

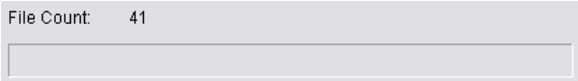
Step 1: Switch to Repair database windows.



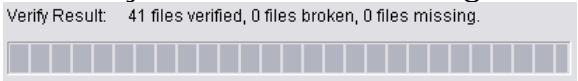
Step 2: Check the video location windows.

The system will list all video locations in table, but if there are any omit, please use  to insert.

Note: After inserting location, the system will show files count below table.

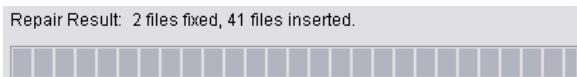


Step 3: Choose the method of "Verify Only", and click "verify". This method will only check the files without modify. Verify result will show how many files broken or missing.

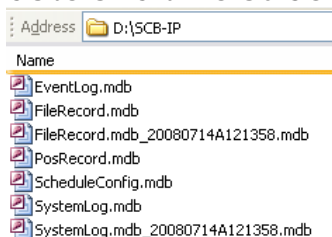


## 9. DB Tool

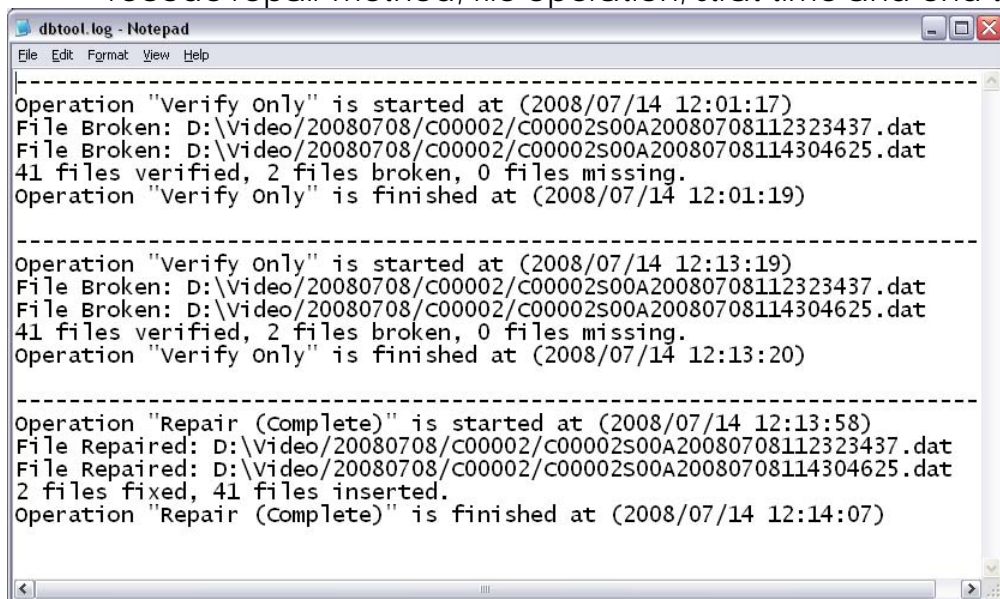
**Step 4:** Choose the method of "Repair(Complete)", and click "Repair" to repair. The Repair Result will show how many files are fixed and inserted.



**Step 5:** The repair new database will replace old ones. And the original database will change file names with extend repair date and time as below.

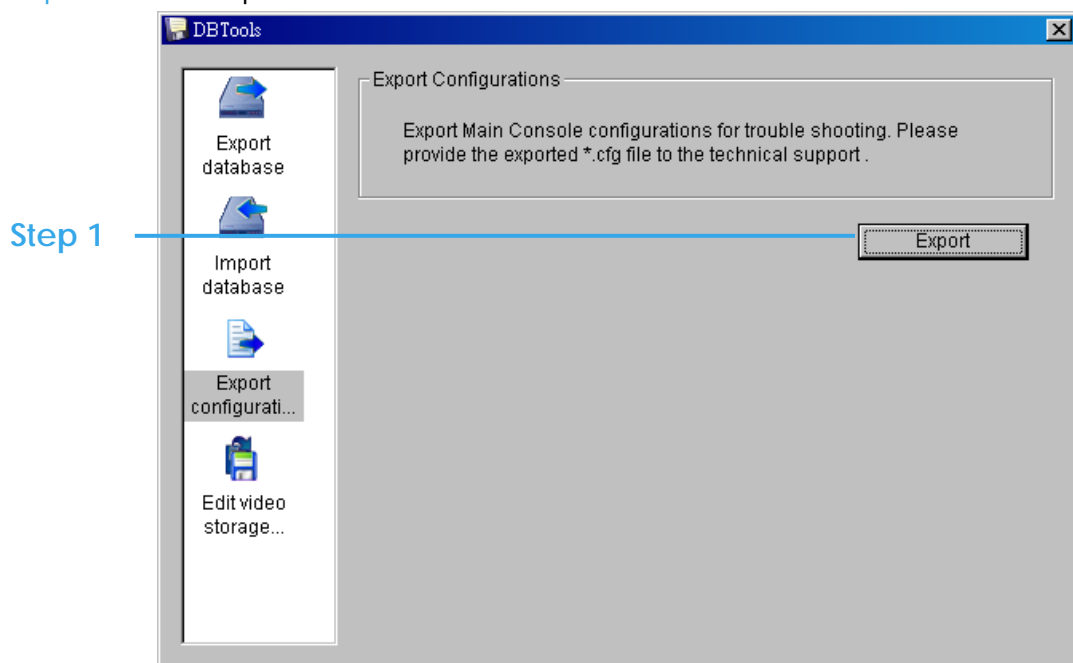


**Note:** Open Log is a tool to record repair database recode. It will recode repair method, file operation, strat time and end time.



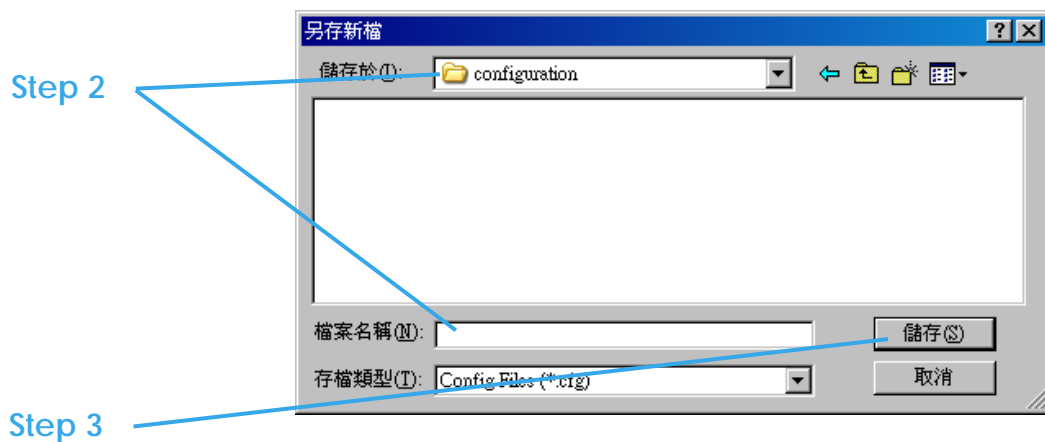
## 9.4 Export Configurations

Step 1: Press "Export".



Step 2: Select the location you want to Export and type the name of the configurations.

Step 3: Press "Save" to start to import database.



## 9. DB Tool

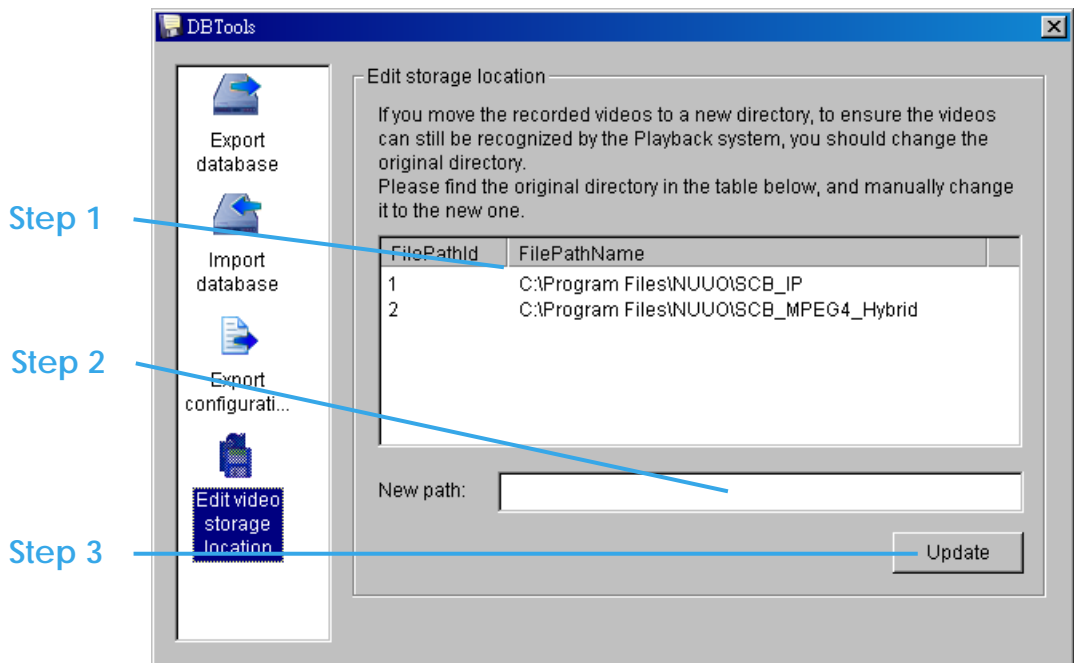
## 9.5 Edit Storage Location

If you move the recorded videos to a new directory, to ensure the videos can still be recognized by the Playback system, you should change the original directory.

**Step 1:** Select the original directory in the table.

**Step 2:** Change the selected path to the new directory for the moved video.

**Step 3:** Press "Update" to finish editing storage location.



# Appendix A

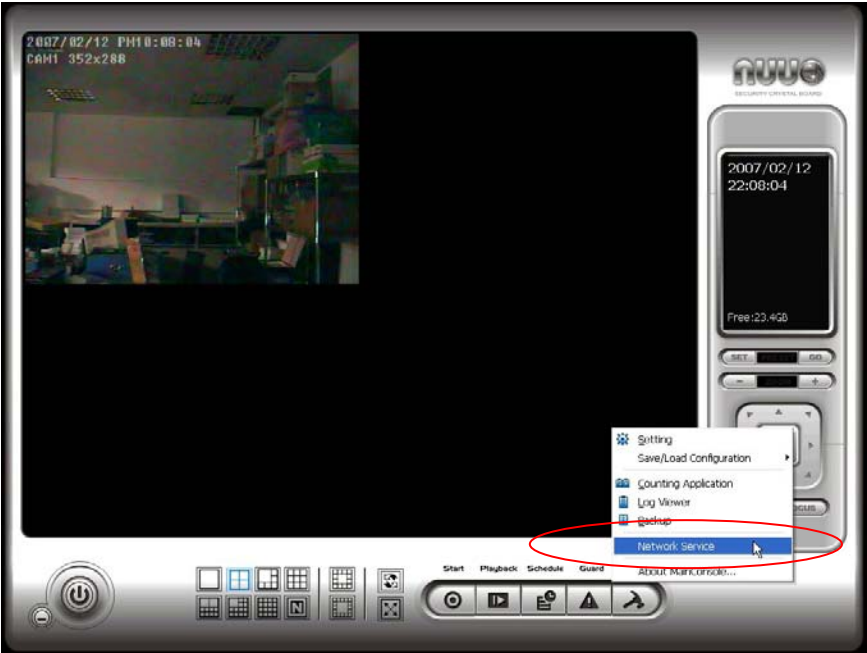
How to setup 3GPP streaming connection (using BenQ-Siemens mobile phones)

## System Configuration

NUUO DVR / NVR server v2.6	
CPU:	Intel core2 Duo 1.86 GHz
Memory:	512 DDR RAM
Ethernet:	Realtek RTL8168/8111 PCI-E
Hard Disk:	160GB
Graphic card:	ASUS Extreme AX550
Operating System:	Windows XP Professional SP2
Mobile Phone:	BenQ-Siemens E81

### 1.1 Configuration from NUUO server

Step 1 : Go to **Config** and select **Network Service**

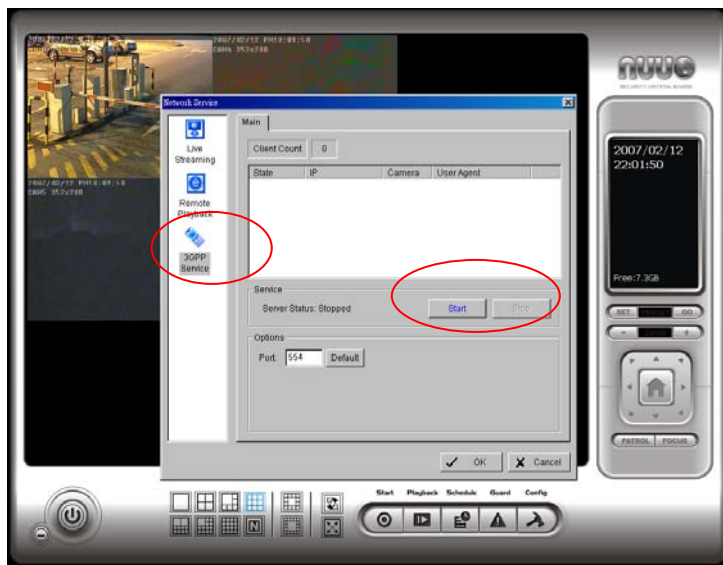




## Appendix A

Step 2 : Select **3GPP Service**, and then click **Start**

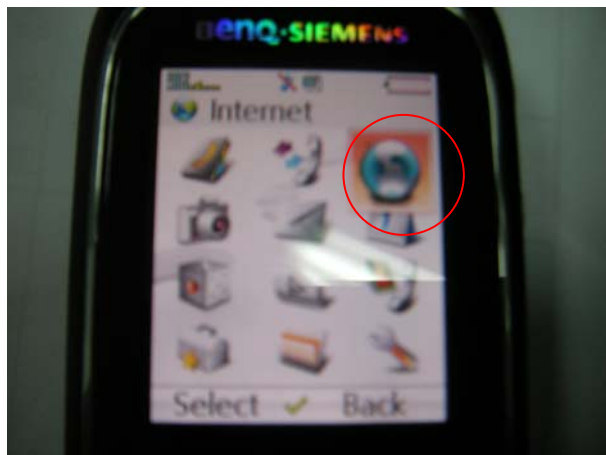
Note: In the Option item, the **port** selected here is the same port from mobile handset



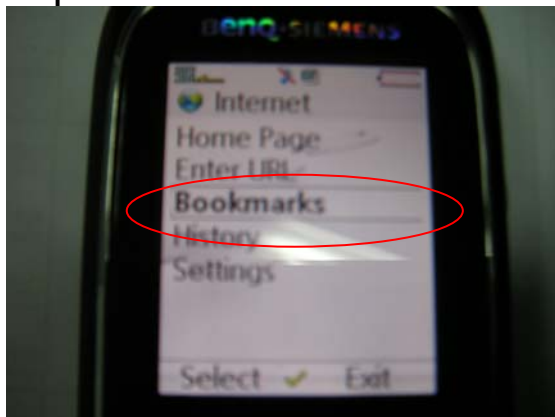
## 1.2 Configuration from 3G Mobile Phone

### 1.2.1 BenQ-Siemens E81

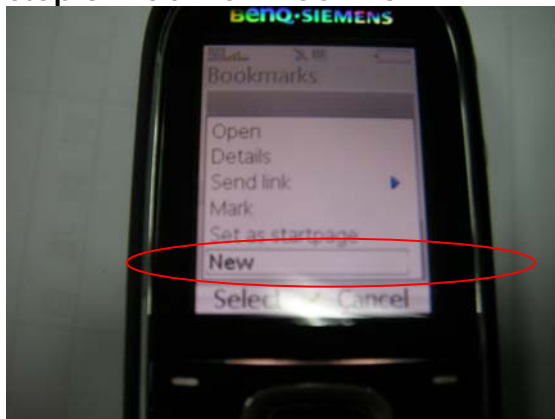
Step 1: Goto **Menu**, then **Internet**



#### Step 2: Select **Bookmarks**



#### Step 3: Add **New** Bookmark

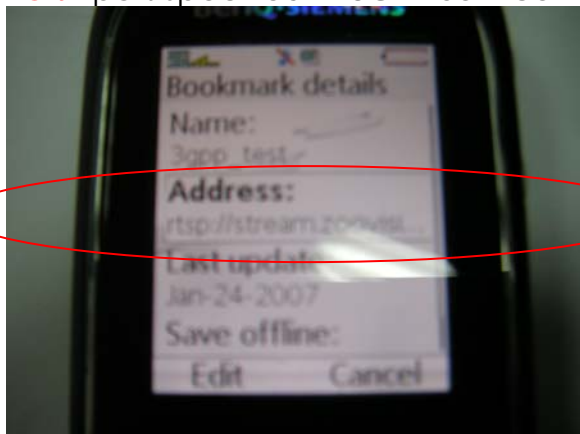


#### Step 4: Configure the Address setting as the following example.

Ex: `rtsp://61.216.97.69:554/media00.3gp`

**61.216.97.69:554** is the IP address of NUUO NVR or DVR system

**Port :** port specified in **3GPP Service** from NUUO NVR or DVR system



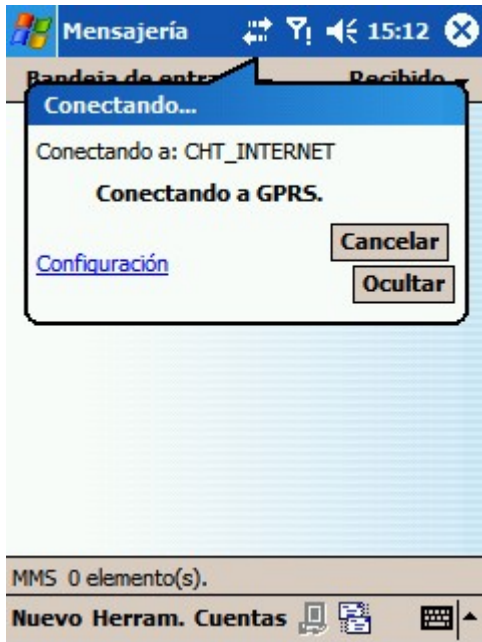
## Appendix A

**Step 5:** Save the settings and start playing



#### 1.2.2 BenQ P50

##### 1. Connect GPRS



##### 2. Download and install the [PLATFORM4] software.

##### 3. Execute NUUO Main Console.



## Appendix A

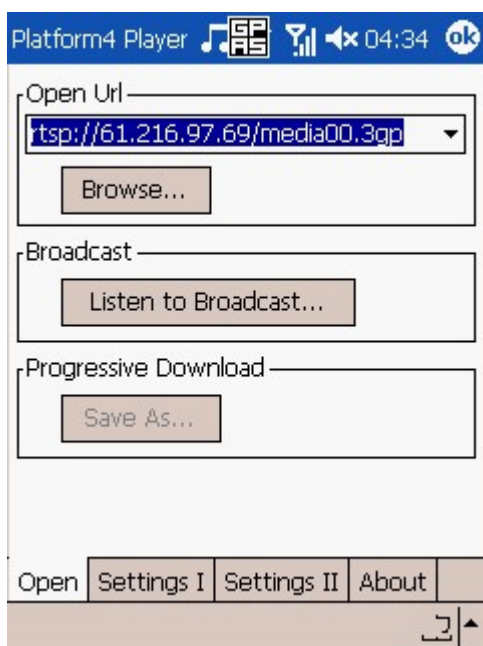
4. Press the [Config]→[Network Service]→[Start]



5. Open [PLATFORM4], press the button framed by red into Option



6. [Open Url] enter the rtsp address of the camera  
(EX: rtsp://61.216.97.69/media00.3gp→channel 1  
EX: rtsp://61.216.97.69/media01.3gp→channel 2  
EX: rtsp://61.216.97.69/media02.3gp→channel 3)



7. [Setting I] change the setting and press "OK"

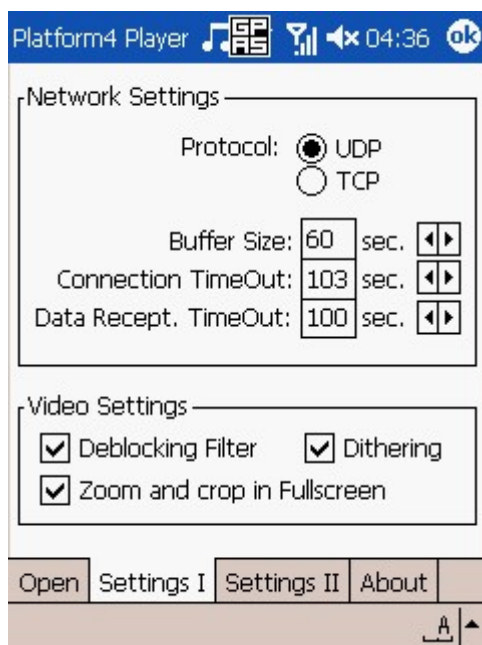
[Protocol] TCP

[Buffer Size] 60

[Connection TimeOut] 103

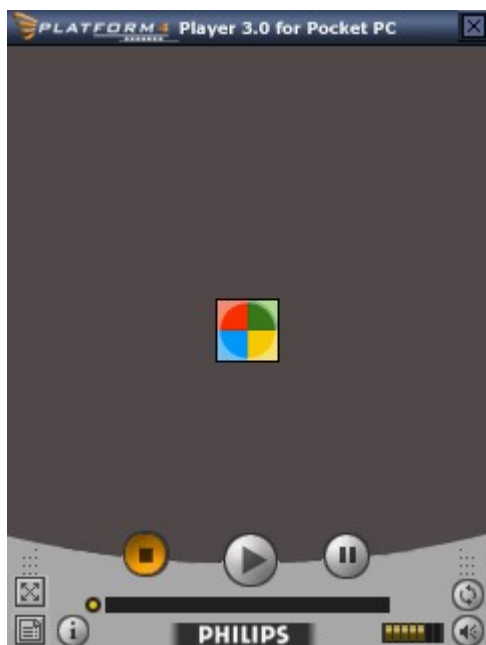
[Data Recept. TimeOut] 100

[Deblocking Filter] check



## Appendix A

8. Go back to PLATFORM4, searching and then getting the video



# Appendix B

How to install NUUO Remote Desktop Tool

**Step 1:** Insert the Installation CD.

**Step 2:** Please go to RemoteDesktopViewer directly and Run Setup.exe file.

How to Start NUUO Remote Desktop Tool

**Step 1:** Please point to Start > All Programes > NUUO Remote Desktop Viewer > Remote Desktop Viewer.

**Step 2:** Please enter address, Port, Password of server. Enable the option Use 8 bits color level to show steadier screen.

**Step 3:** Click OK to Start Remote Desktop.

