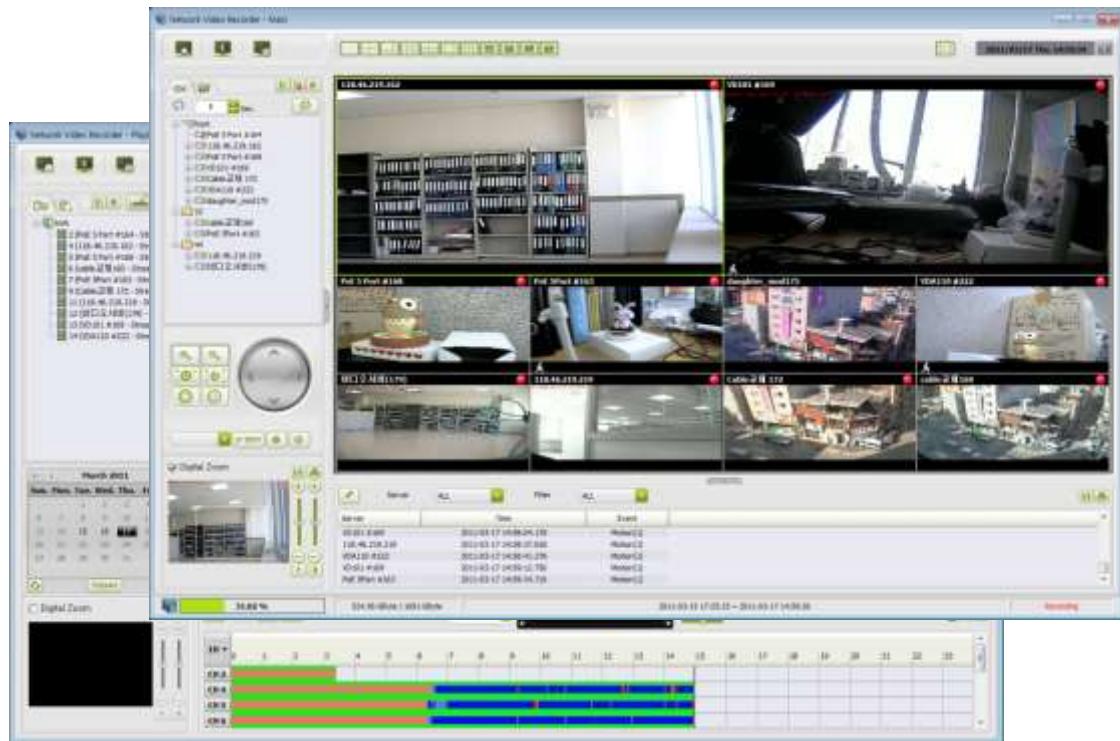


# NETWORK VIDEO RECORDER C/S

## USER MANUAL



Released on the 31th of Dec., 2015

# NETWORK VIDEO RECORDER C/S

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# NETWORK VIDEO RECORDER C/S

Network Video Recorder C/S is IP Video management software. It is widely used as a monitoring and recording system for small and midsize installation. And, because of Client/Server architecture, it can manage unlimited record server systems.

## 1. Feature Overview

Key features	Package	16	36	64	Unlimited
Number of cameras per recording server	16	36	64	Unlimited	
Multi server solution	Yes	Yes	Yes	Yes	
Number of cameras per NVR Client Live	16	36	64	128	
Number of cameras per NVR Client Playback	16	36	64	64	
Alarm Manager	Yes	Yes	Yes	Yes	
Map function	Yes	Yes	Yes	Yes	
Watchdog	Yes	Yes	Yes	Yes	

## 2. Minimum System Requirements

System requirements	NVR CS Server	NVR CS Client
CPU	Pentium Core2 duo 2.4	Pentium i3-3220 3.3GHz or higher
Graphic Card	128MB	128MB
Ram	2GB	2GB or higher
O/S	Windows 7	Windows 7
Network	Gigabit LAN	Gigabit LAN
HDD	Minimum 5GB Free	Minimum 1GB Free

## 3. Detailed Product Features

### 3.1. NVR CS Server

Function	Description
Recording Server	Saves transmitted video stream from IP cameras
	Intelligent recording functions ( Scheduling, Event Recording)
Relay Server	Relays video streams or events from IP cameras to the Client
Two way Audio Server	Transmits client's audio data to Camera
User Management	Manages the user group and the privilege of the user group
Watchdog	Monitors Recording Servers periodically and maintains stable recording operations.

# NETWORK VIDEO RECORDER C/S

## 3.2. NVR Client Live

Function	Description
Real-time Monitoring	Performs real-time monitoring of Max. 128 channels by remote access to Recording servers or IP Cameras.
Unlimited Server System	Provides unlimited server system by remote management of recording servers of IP Cameras
Quick Search	Provides up to x16 playback speed of recording data by each camera of Recording Server.
P/T/Z Control	Controls Pan/Tilt/Zoom of IP Camera.
Backup	Provides AVI file of Video Backup.
Panorama Control	Creates 360 degree panorama image of PTZ Camera and Controls the position of PTZ camera.
Display	Provides various screen modes (1/4/6/9/10/13/16/25/36/49/64ch)
Dual Monitoring	Supports Dual monitoring of up to 128 channels.

## 3.3. NVR Client Playback

Function	Description
Remote Search	Provides up to x16 playback speed of recording data by each camera of Recording Server.
Display	Provides various screen modes (1/4/6/9/10/13/16/25/36/49/64ch)
Backup	Provides AVI file of Video Backup.
Digital Zoom	Provides digital zoom in playback mode

## 3.4. NVR Client E-map

Function	Description
E-map management	Provides unlimited number of E-map pages
Event Link	Supports various event notifications when event triggered.
User-friendly Interface	Provides User-friendly interface of Drag&Drop setting

## 3.5. NVR Client Setup

Function	Description
Remote Setup	Sets the functions of Recording Servers and IP Cameras remotely.
Log View	Displays the list of Event information of IP Cameras registered on the NVR Server.

## 4. Program Installation

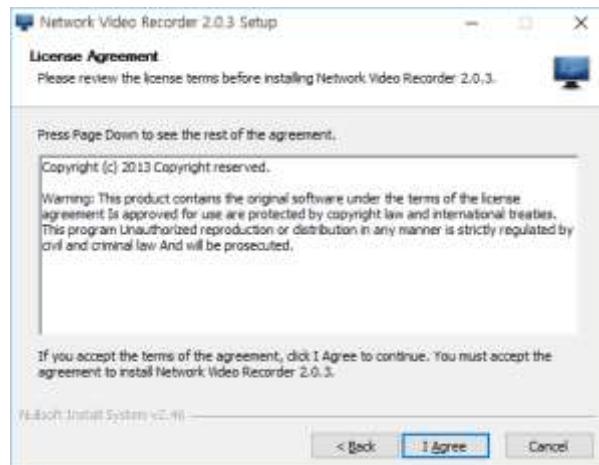
### 4.1. Running Installation file

- 1) Run the NVR\_CS\_Install\_xx.exe file in the provided CD or in the folder of your PC.
- 2) Click "Next" button to continue.



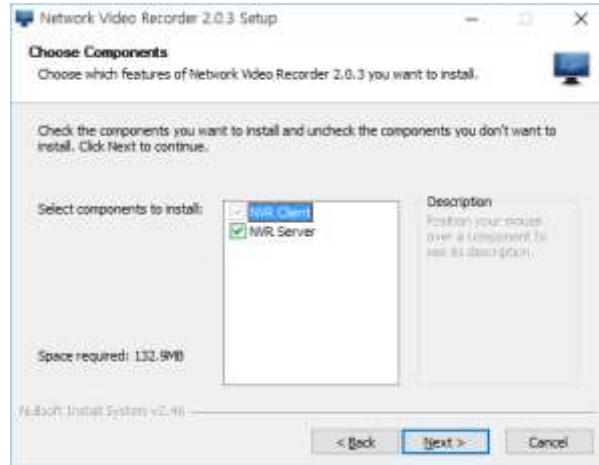
### 4.2. License Agreement

Read the license agreement carefully And then click "I Agree" button.



### 4.3. Choose Components

Choose the components you want to install.  
Click "Next" to continue.

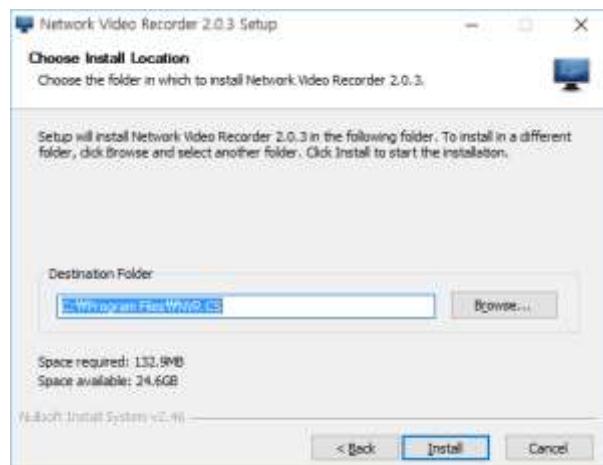


**Note.** To install all components as standalone type, in one computer, please click " NVR Server".

# NETWORK VIDEO RECORDER C/S

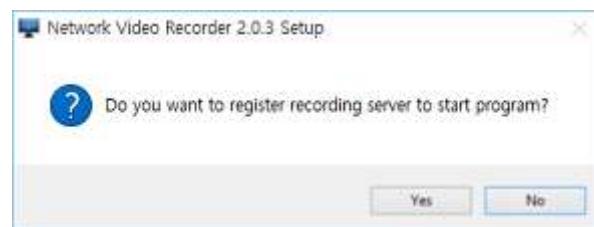
## Choose Install Location

Define the destination folder and click “Install” button.  
(Default folder is C:\Program Files\NVR CS)



## 4.4. Registering NVR Server in the Windows Startup program.

If you choose the NVR Server of components, the popup window for Startup registry will appear. Then Click “Yes” Button to register it to Startup program.



## 4.5. Installation Completion

Upon completion, you can run NVR Recording Server by clicking “Finish” button with checked on the check box of **Reboot now**.



After installation completion, 6(six) shortcut icons will be created on Desktop as follows;



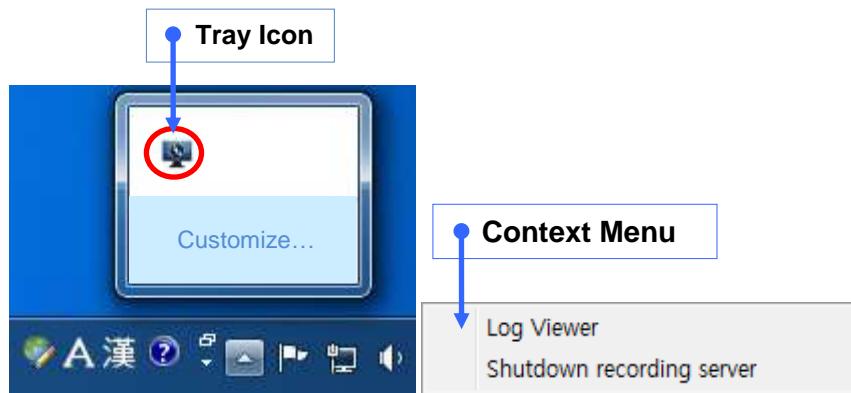
## Uninstalling NVR CS,

To uninstall NVR CS, you can run `uninst.exe` on the below location/ way.  
Start-up Menu → All Programs → NVR CS → Uninstall (`uninst.exe`)  
In the **control panel** → open **uninstall a program** → Network Video Recorder → Uninstall

## 5. NVR Server/ Watchdog

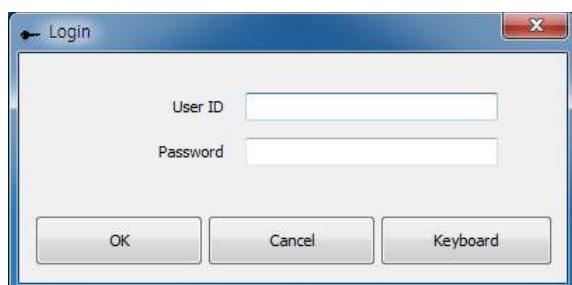
NVR Server's main roles are a Recording server and a Relay server. When the program runs, the icon [  ] is added to the notification area on the taskbar. It does not have its own separate UI. It runs in the background.

### 5.1. User Interface



(1) Select the [  ] icon and right click on it to open the context menu.

- A. Log Viewer: shows log viewer of watchdog
- B. Shutdown recording server: shuts down the NVR Server program.

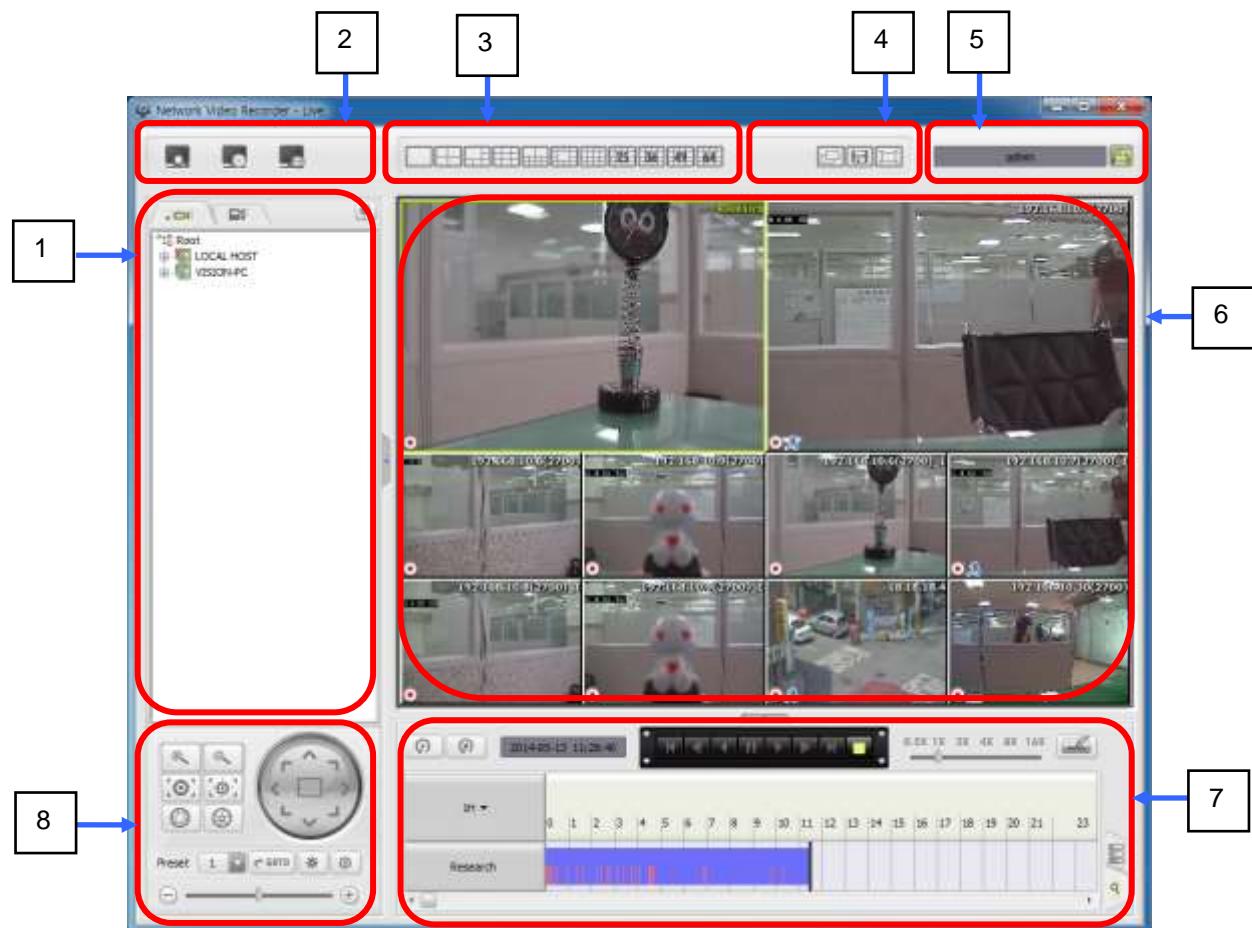


(2) Enter the ID and password and click "OK".

# NETWORK VIDEO RECORDER C/S

## 6. NVR Client Live

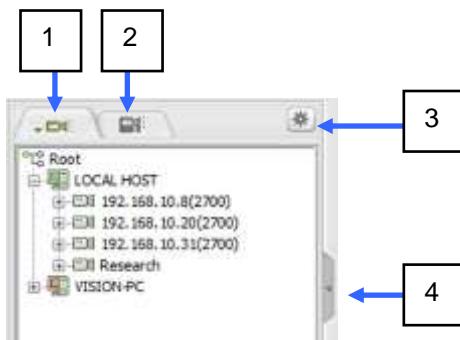
### 6.1. User Interface



No.	Item	Icon	Description
1	Server & Group List		Server List & Group List
2	Program Icons		Select components to switch.
			NVR Playback
			NVR Setup
			NVR E-map
3	Display mode		Selects the desired screen channel
4	Function Button (Screen mode)		Dual Screen mode
			Snapshot Saving & Print
			Full Screen mode
5	Login info		Shows Login Info ( Log in/out)
6	Display screen		Shows all desired
7	Timeline		Playback the recorded data
8	PTZ Control		Can control PTZ cameras remotely

# NETWORK VIDEO RECORDER C/S

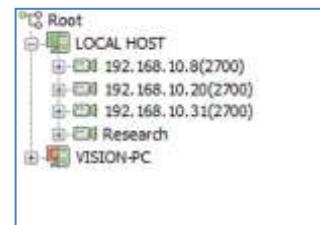
## 6.1.1. Status Window and Server List



No.	Icon	Item
1		Server List
2		Group List
3		Option Setup
4		Status Window

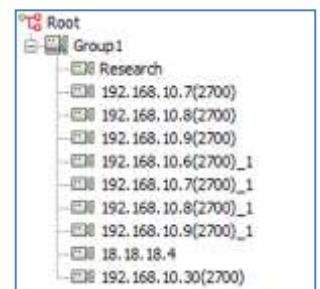
### 6.1.1.1. Server List

Shows registered servers and their status



### 6.1.1.2. Group List

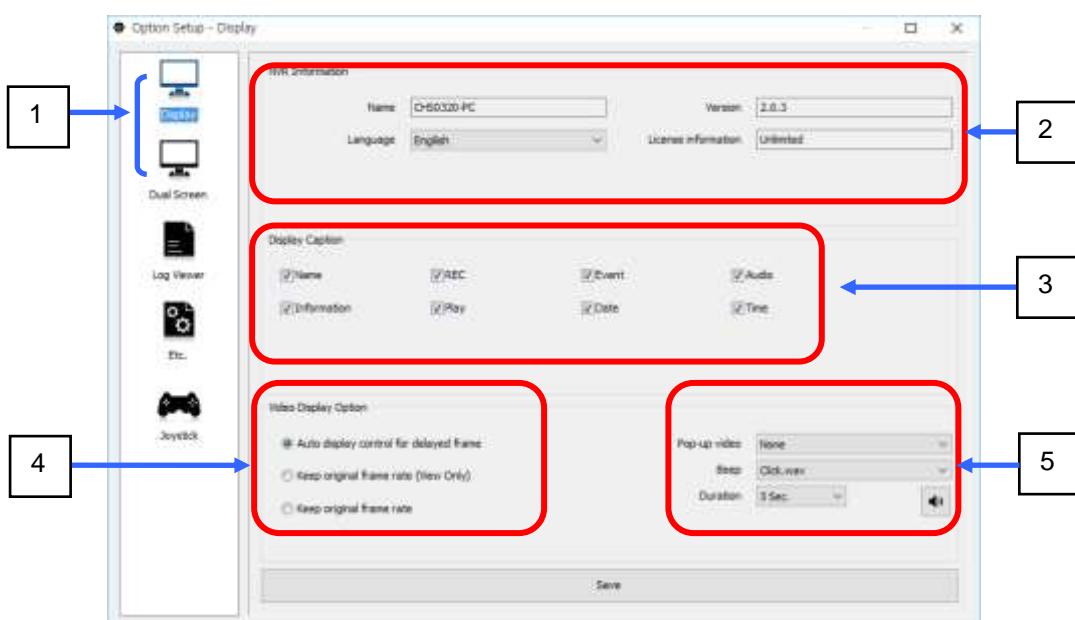
Shows Registered Groups and their status.



### 6.1.1.3. Option Setup

Click Option [ ] button. Setup Window appears.

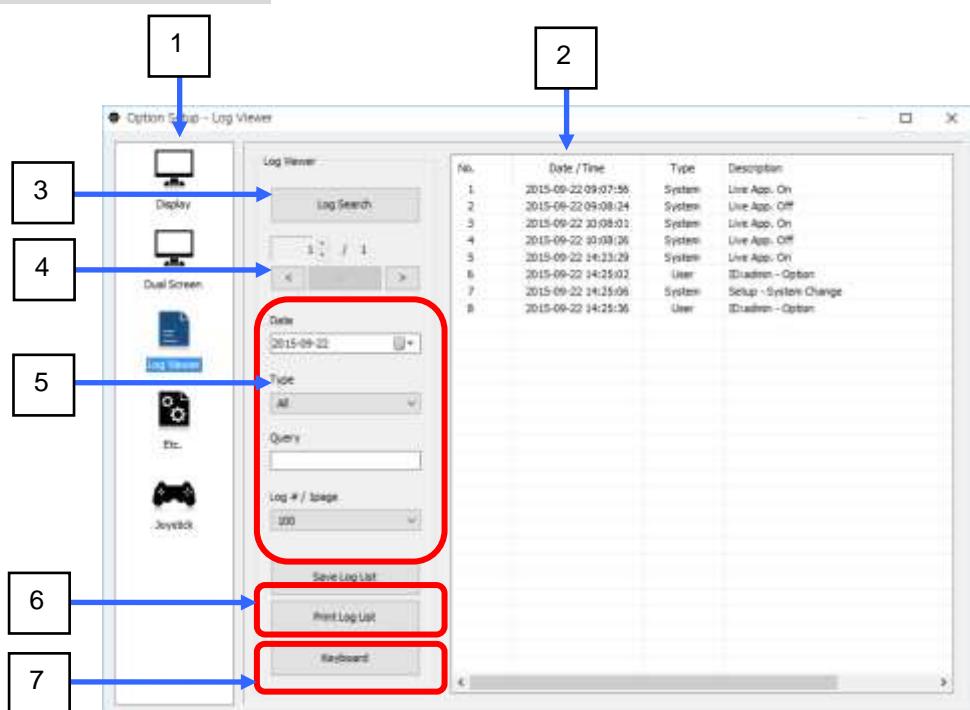
## Display Setup Window



# NETWORK VIDEO RECORDER C/S

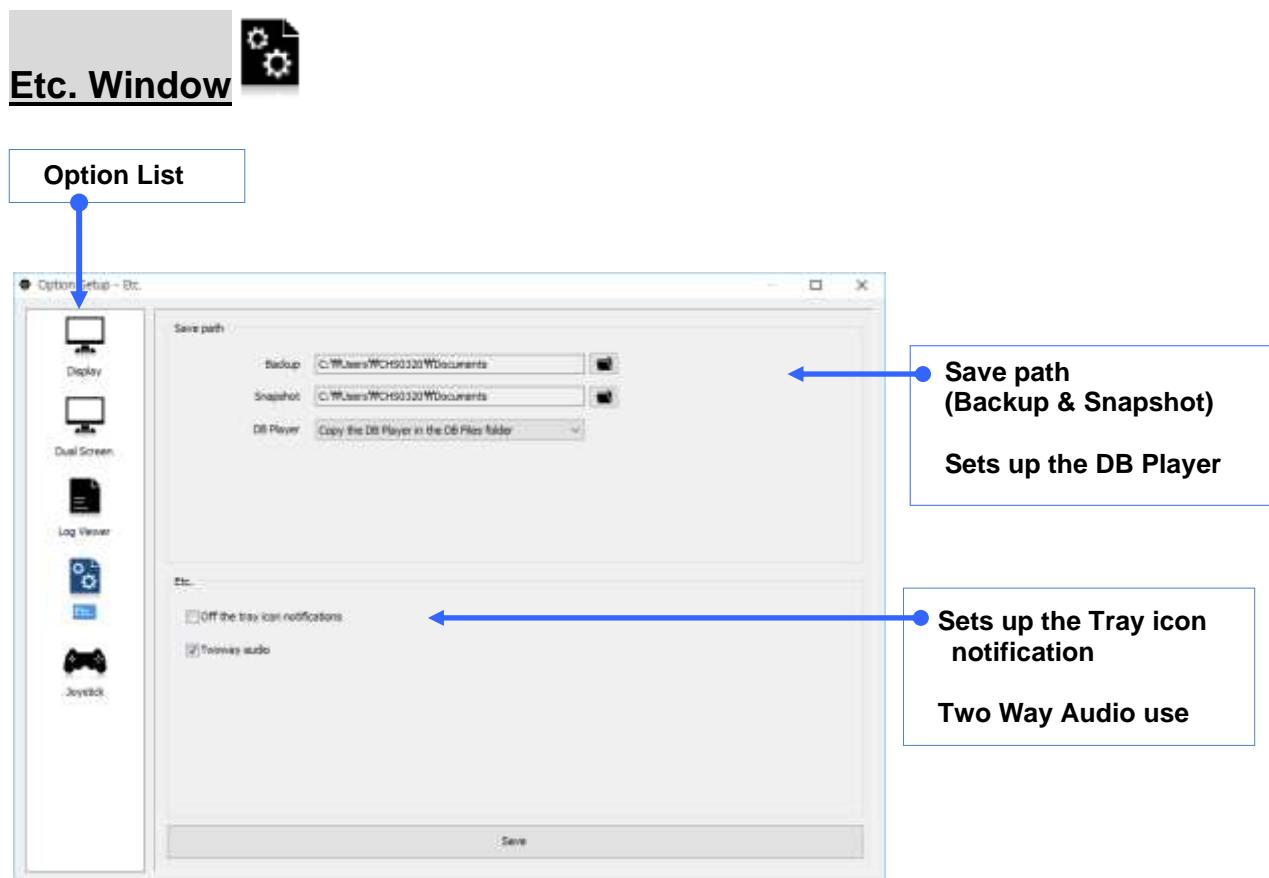
No.	Item	Description
1	Option List	Display
		Dual Screen
2	Information Language	Changes Language
3	Display Caption	Sets up the captions
4	Video Display	Sets up the video display
5	Popup video	Sets up the event video popup

## Log Viewer Window



No.	Item	Icon	Description
1	Option List		Log Viewer
2	Log List		Shows the log list
3	Log Search		Searches list of
4	Page Selection		Turns to the selected page
5	Date, Type, Query		Choose Search types
6	Print Log List		Print the searched list
7	Keyboard		On-Screen Key Board

# NETWORK VIDEO RECORDER C/S

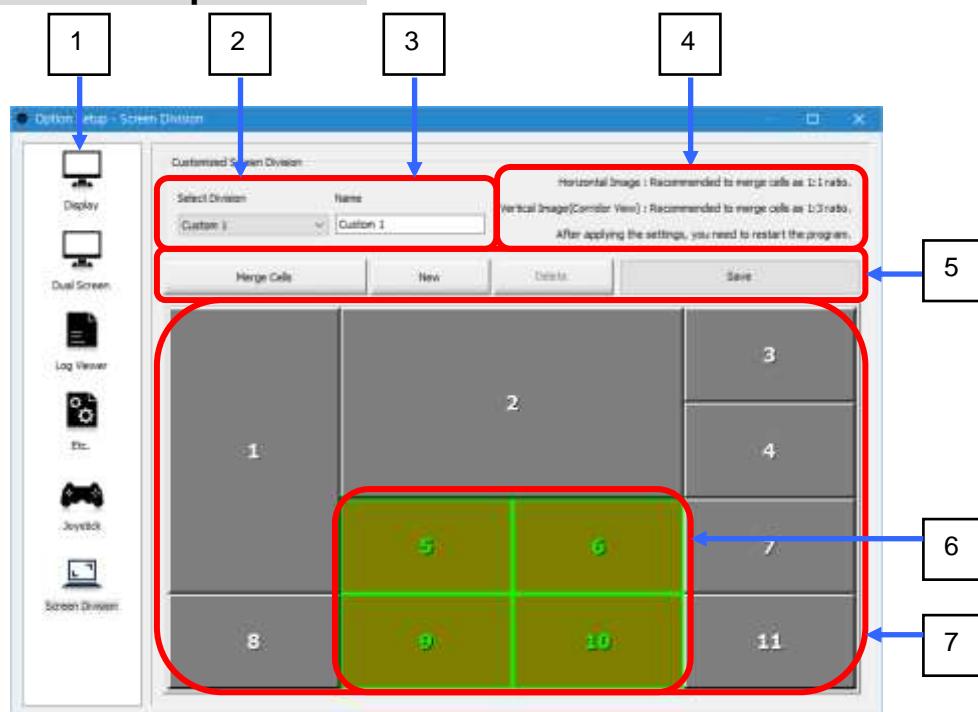


### Joystick Setup Window

# NETWORK VIDEO RECORDER C/S

No.	Item	Icon	Description
1	Option List		Joystick setup
2	Setup		Joystick use and model information
3	PTZ mode		Sets up buttons in PTZ mode
4	Live mode		Sets up buttons in Live mode
5	1 division <-> N division		Selected channel 1 and multi-division change
6	PTZ mode <-> Live mode		PTZ mode and Live mode change

## Screen Division Setup Window



No.	Item	Icon	Description
1	Option List		Screen Division setup
2	Select Division		Select customized screen division
3	Name		Name of selected screen division

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4	Recommendations and description	1. Horizontal Image : Recommended to merge cells as 1:1 ratio. 2. Vertical Image(Corridor View) : Recommended to merge cells as 1:3 ratio. 3. After applying the setting, you need to restart the program.
5	1. Merge Cells 2. New 3. Delete 4. Save	1. Merge selected cells 2. Create NxN division 3. Delete selected screen division 4. Save selected screen division
6	Selected Cells	Select cells by using a mouse clicking
7	Cell editing screen	1. Select customized screen division 2. Create NxN division by [New] button 3. Select cells by using a mouse clicking 4. Merge selected cells by [Merge Cells] button 5. Save selected screen division by [Save] button

## 6.1.2. Program Icons

- |  |                    |   |
|--|--------------------|---|
|  | NVR Live :         | shows real-time live video for monitoring                                   |
|  | NVR Playback :     | you can search and play back recorded data                                  |
|  | NVR Setup :        | you can set up / configure Network Video Server                             |
|  | NVR Event viewer : | Shows live video when events triggered                                      |
|  | NVR E-Map :        | Displays live video and Alarms on user's defined map when events triggered. |

## 6.1.3. Display Mode

You can set the modes: 1/4/6/9/10/11/16/25/36/49/64 channel mode



You can set the modes: 1/2/3/4 customized screen division mode



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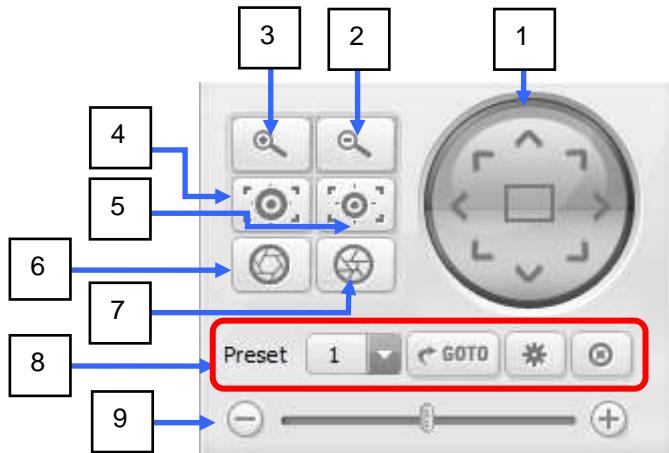
## 6.1.4. Display Screen



1  
2

No.	Item/ Icon	Description
1	Camera Name	Shows the name of camera
2	Recording/Playback in progress	The status of Audio output/ Microphone
	The status of Audio output/ Microphone	When Motion event is detected
	Alarm In/Out	Joystick

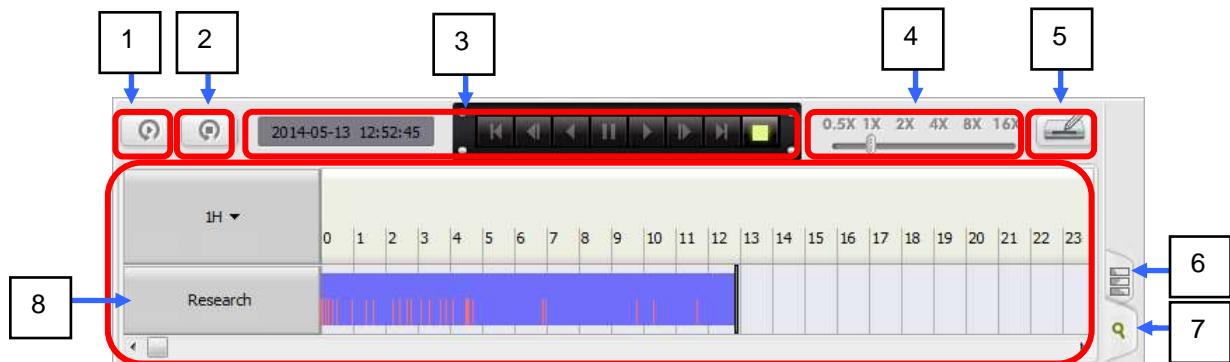
## 6.1.5. PTZ Control



No.	Item	Icon	Description
1	PTZ Jog		Adjusts the selected position and Controls PTZ operation/menu.
2	Zoom out		Zooms out to smaller image
3	Zoom in		Zooms in to bigger image
4	Focus in		Adjust the focus range to closer distance
5	Focus out		Adjusts the focus range to further distance
6	Iris Open		Sets to Smaller F number for more light exposure
7	Iris Close		Sets to higher F number of Iris for less light exposure
8	Preset set-up		Select Preset Number
			Go to Preset Number
			Saves a Preset
			Clears Preset
9	PTZ Speed		Controls PTZ Speed (Slow or Fast)

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## 6.1.6. Time Line & PTZ Panorama

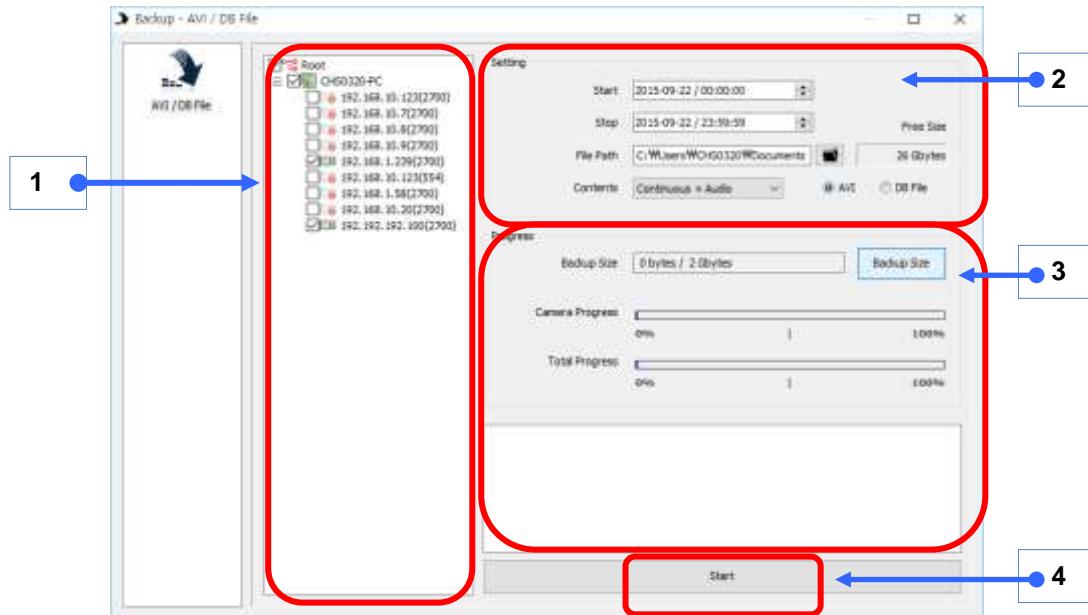


No.	Item	Icon	Description
1	Sync all		Synchronizes all on-screen playback to the time of a searching camera
2	Stop all		Stop all playback
3	Playback time & Control	2014-05-13 12:52:45	Shows the playback point of time in the time line
			Pause / Stop playback
			Backward Playback/ Forward Playback
			Backward one frame / Forward one frame
			Moves to the first frame/ Moves to the last frame
4	Playback Speed		Sets the speed to 0.5x, 1x, 2x, 4x, 8x, 16x.
5	Backup		Opens Backup set-up Window ( The final backup file format is "*.avi" format.)
6	Panorama		Use scanned 360 Panoramic image for easy PTZ control
7	Timeline		Use the time line of Searching Data Grid
8	Research		Shows the name of camera

### 6.1.6.1. How to backup Search Dada

- 1) Select Cameras from the list
- 2) Specify the desired time from the Setting section.  
Start/stop time & File Path.  
Contents types(Continuous, Event, Audio) & AVI / DB File backup.
- 3) Click “Backup size” button for checking the backup size.
- 4) Click “Start” button.

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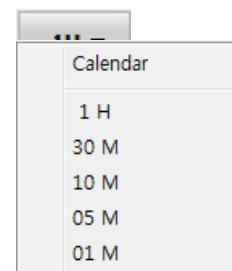
## 6.1.6.2. How to Search Data Grid

Displays the recorded data of the desired camera in the search grid. Drag the black line to a desired point of time to playback.



### 1) Search Time Scale

You can choose Calendar, timeline scale for Search Grid  
Calendar, Scale  
Calendar, Scale:  
(1 hour, 30 minutes, 10 minutes, 5 minutes, 1 minute)



### 2) Recording status

Color	Description
Blank	No recorded data
Blue	Continuous recording with blue bar
Green	Audio recording with Green bar
Red	Event recording with Red bar

### 3) In the search data grid, the black vertical line is the current playback point of time

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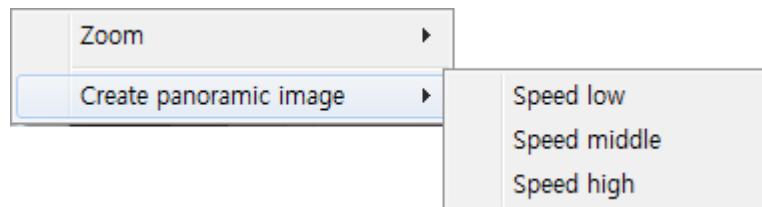
### 6.1.6.3. PTZ Panorama

(limited to the PTZ panorama supporting PTZ cameras)

On the PTZ Panorama 360 degree image, you can click at the desired position to move a PTZ camera.



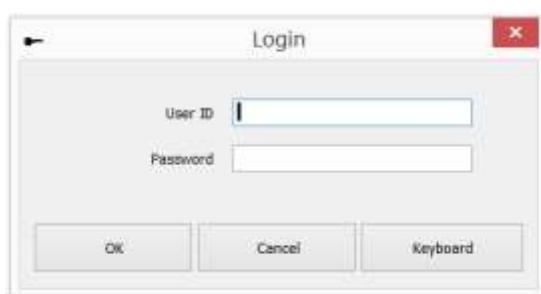
To create the PTZ panorama 360-degree image, right click on the image to open the context menu. There are three speed steps (low, middle, high) to scan 360-degree. Lower speed is higher image quality.



### 6.1.7. Login Information

You can click the [ Log off ] button and enter the User ID and password in the login window:

After login [ ], the ID will be displayed

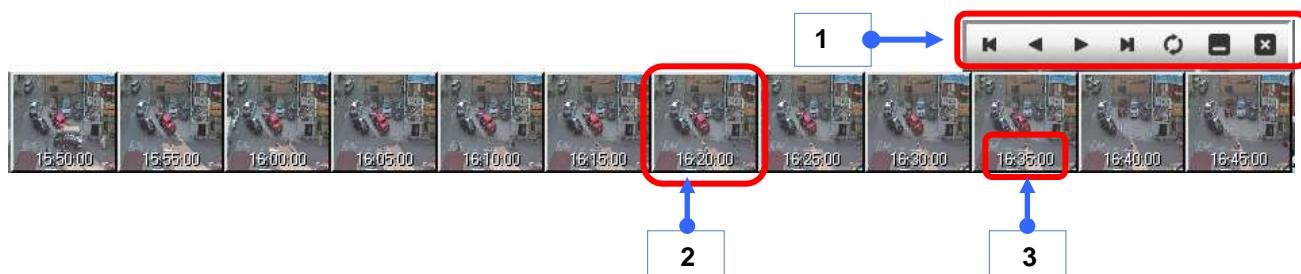


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## 6.1.8. Thumbnail Search

You can use the thumbnail search in the 1 division mode, and operates in sync with the timeline.

Click on the thumbnail screen to a desired point of time to playback.



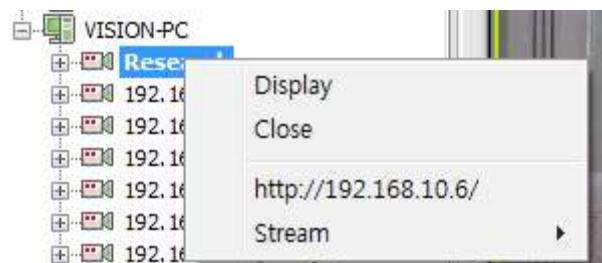
No.	Item	Icon	Description
1	Thumbnail Search Control	◀ ▶	Step Backward / Step Forward
		◀◀ ▶▶	Previous page / Next page
		⌚	Synchronized with Timeline
		[-] [□] [X]	Minimize / Maximize / Close
2	Thumbnail Screen		Click on the thumbnail screen to a desired point of time to playback.
3	Thumbnail Time	16:35:00	Shows the thumbnail time.

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## 6.2. Server/Group List and Display Menu

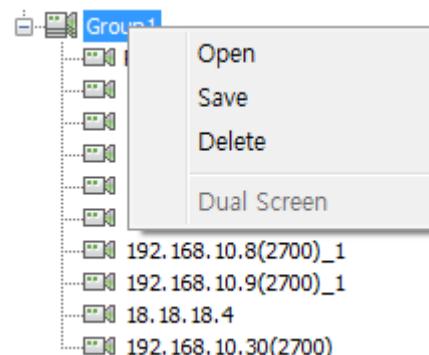
### 6.2.1. Server List Menu

Context	Description
Display	Display videos on the screen
Close	Close videos on the screen
http://	Open the web page of the cameras
Stream	Auto control of delayed frames Or Fixed channel setup



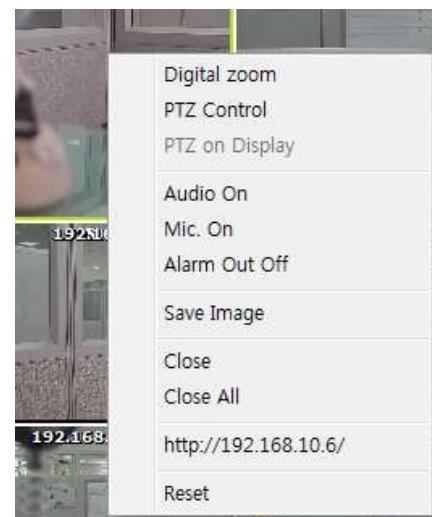
### 6.2.2. Group List Menu

Context	Description
Open	Display groups on the screen
Save	Saves groups on the screen
Delete	Deletes groups
Dual screen	Display groups on the dual screen



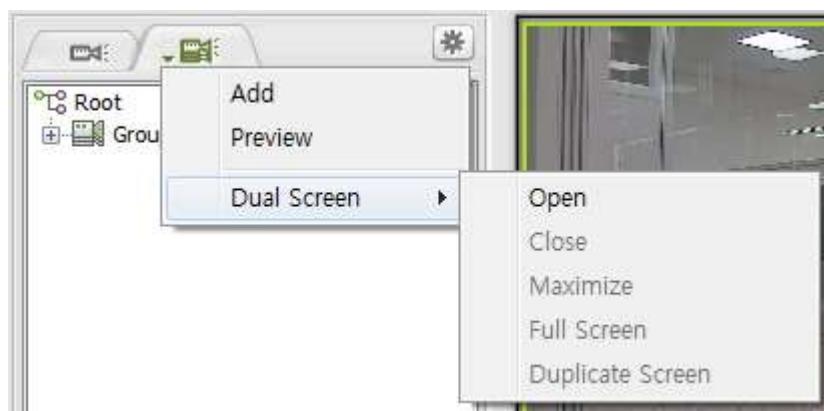
### 6.2.3. Display Screen Menu

Context	Description
Digital zoom	Provides enlarging the video image by drag (returns to its original size, click on display)
PTZ Control	Controls PTZ on display (supports for only PTZ Cameras)
PTZ on Display	Moves to the "Mouse click" position (supported model only)
Audio On/Off	Turns on or off Audio
Mic. On/Off	Turns on or Off Mic.
Alarm Out On/Off	Turns on or off Alarm Out
Save Image	Saves or prints Snapshot Image
Close	Closes the display screen
Close All	Closes all the display screens
http:// ~ /	Moves to the webpage of the camera
Reset	Moves to the previous display.

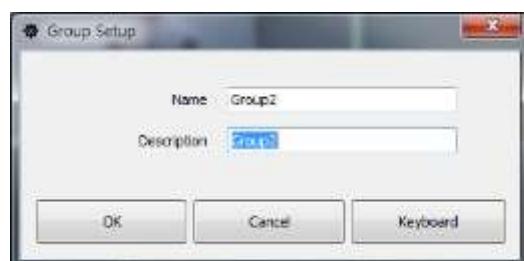


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## 6.2.4. Group Main Menu



Context	Description
Add	Adds a group
Preview	Displays groups to a preview icon
Dual Screen	Controls Dual screen options Open Close Maximize Full Screen Duplicate Screen



< Group Setup Window>

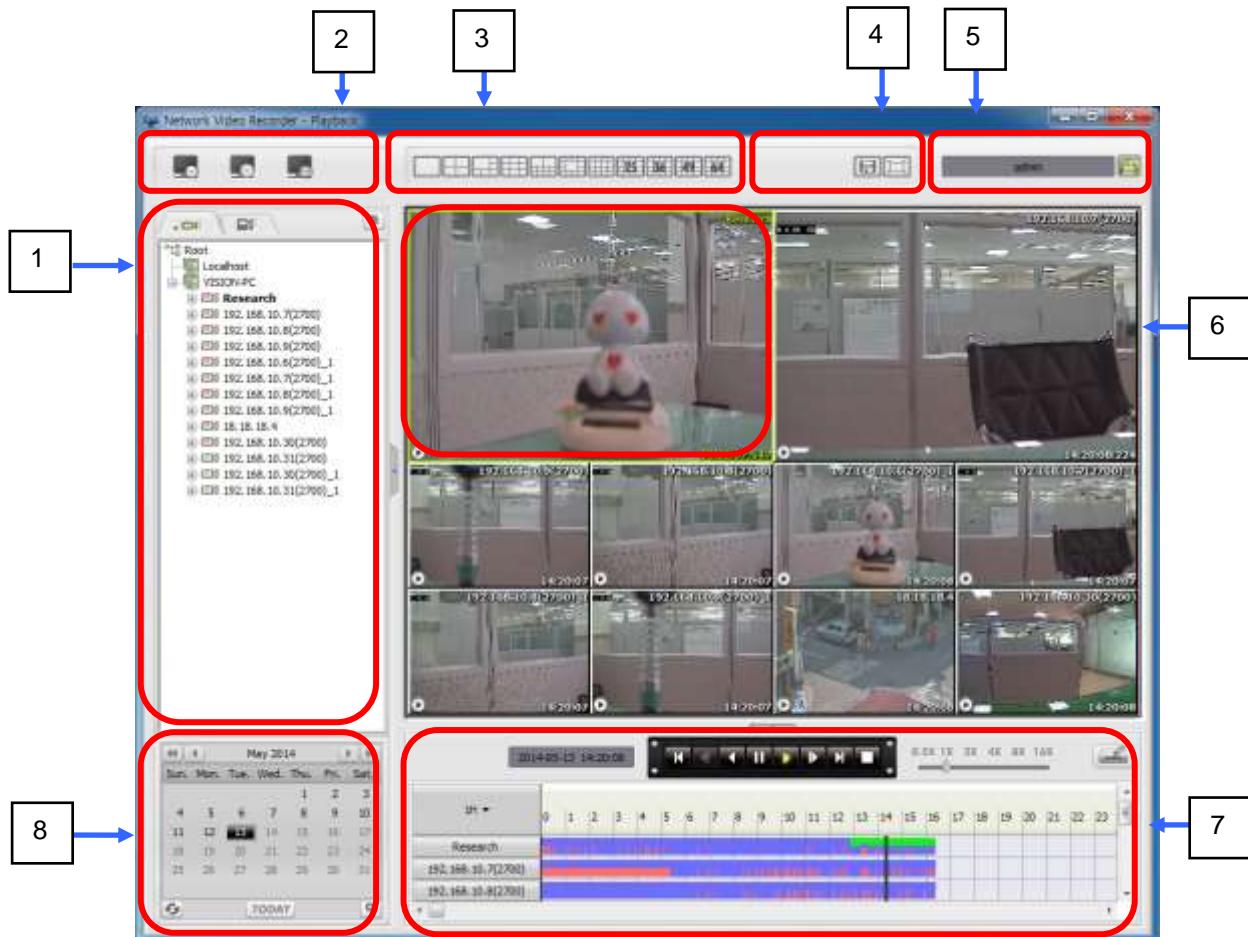


<Icon of group preview>

# NETWORK VIDEO RECORDER C/S

## 7. NVR Client Playback

### 7.1. User Interface



No.	Item	Icon	Description
1	Server & Group List		Server List & Group List
2	Program Icons		Select Components to switch.
3	Display modes		Selects the desired screen channel
4	Function Button (Screen modes)		Snapshot Saving & Print/ Full Screen mode
5	Login info		Shows Login Info ( Log in/out)
6	Display		Shows all desired
7	Timeline		Playback the recorded data
8	Calendar		Playback the recorded data

All the features of NVR Client playback are almost the same of NVR Client Live.  
The differences are;

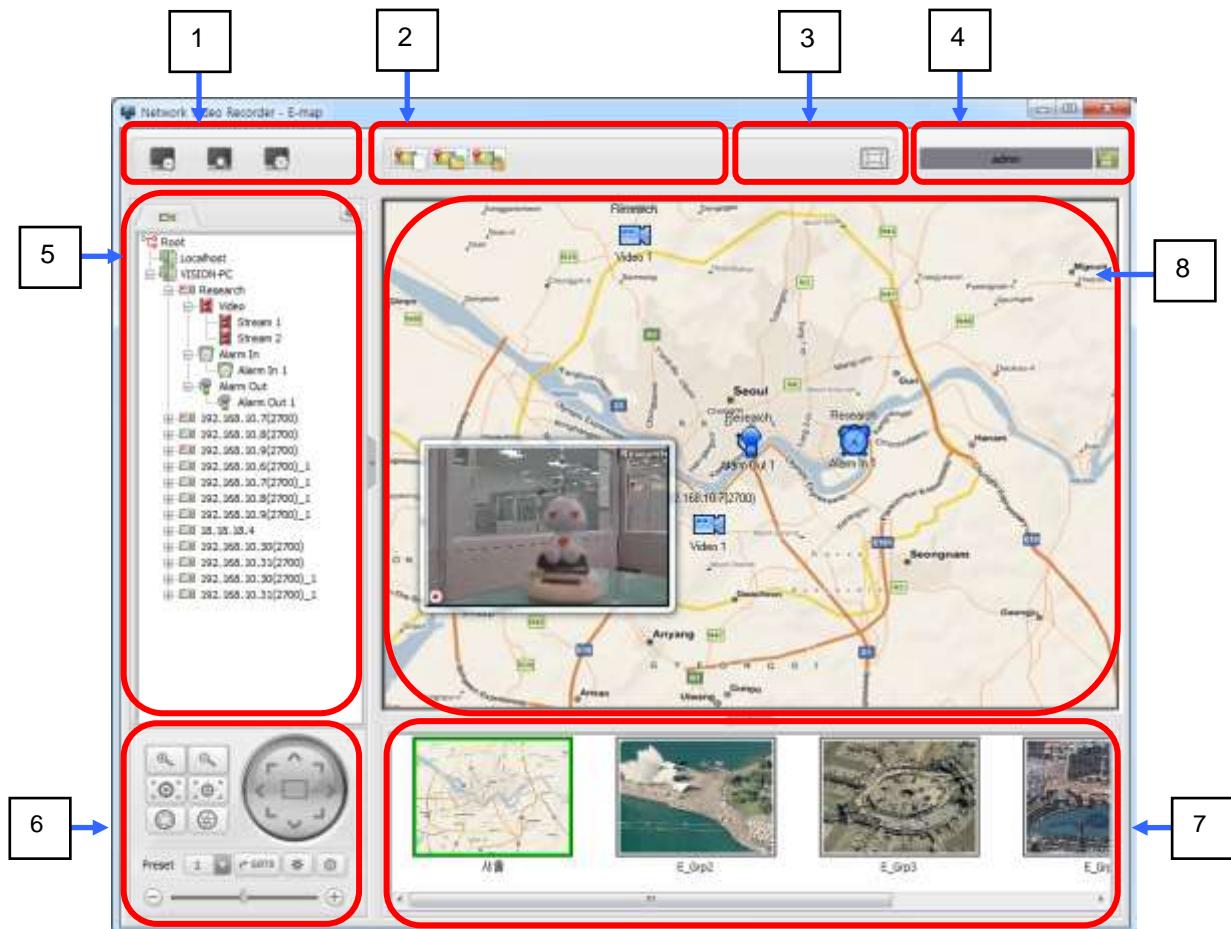
Display/ Close screens are available only on the [ ] stop playback .  
On the search grid, all the timeline of display cameras are listed.

Playback all the cameras simultaneously. (Independently in NVR Client Live)  
After screens being configured, select the date from the calendar.

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## 8. NVR Client E-Map

### 8.1. User Interface



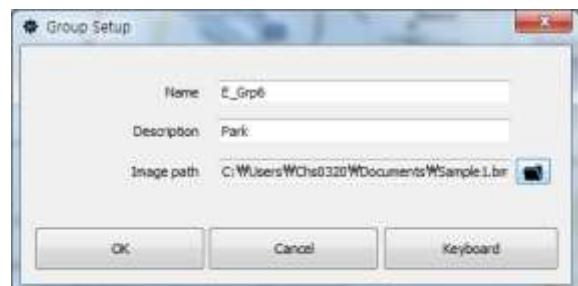
No.	Item	Icon	Description
1	Program Icons		Selects Components to switch.
2	E-map Manager		Creates new E-map Group
			Opening /Editing E-map Group
			Locks E-map Group (Monitoring mode)
			Unlocks E-map Group (Editing mode)
3	Function Button		Full Screen mode
4	Login info		Shows Login Info ( Log in/out)
5	Server List		Server List & E-map Item
6	PTZ Control		Can control PTZ cameras remotely
7	E-map Group List		Shows the saved E-map group.
8	E-map Screen		E-map Screen

# NETWORK VIDEO RECORDER C/S

## 8.2. E-map Group

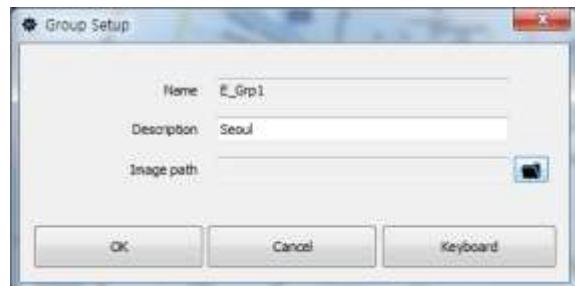
### 8.2.1. To add E-map Group

1. Click [  ] button to create new E-map.
2. In the Group Setup window, enter Name & Description and define Image path by clicking [  ] button.
3. Click [OK] button and then the new E-map will appear on the E-map Group List



### 8.2.2. To edit E-map Group

1. Click [  ] button to edit Description or Image of E-map Group. (Enter Description or click [  ] button to change Image Path)
2. Click [OK] button



### 8.2.3. To lock or unlock E-map Group

You can click Lock [  ] button or Unlock [  ] button to switch the E-map mode.

Monitoring mode	Editing mode
[  ]	[  ]

Note. In the Editing mode, [  ] button and [  ] button are deactivated.

### 8.2.4. To open/ delete E-map

1. Double click to open an E-map in the E-map Group list.
2. Or, click right mouse button on it to open context menu.
3. You can open or delete the E-map.



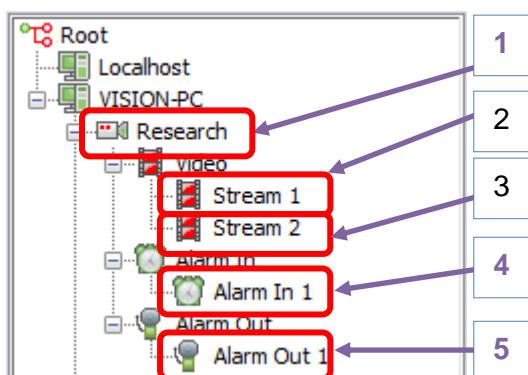
# NETWORK VIDEO RECORDER C/S

## 8.3. E-map Items

To add/ edit/ delete items (Camera, Stream1, Stream2, Alarm In, Alarm Out) is only available in the Editing [  ] mode.

### 8.3.1. To add items to E-map

- 1) Click an item and drag it to the E-Map.
- 2) Drop onto the desired position.



No.	Icon	Item
1		Camera
2		Stream1 (Display)
3		Stream2 (Display)
4		Alarm In 1
5		Alarm Out 2

### 8.3.2. To edit/delete items on the E-map

You can move an item on the E-map by drag-n-drop.  
And you can delete it by context menu (right mouse button)

No.	Icon	Item
1		Camera
2		Stream1 (Display)
3		Stream2 (Display)
4		Alarm In 1
5		Alarm Out 2

For Display items, Stream1, Stream2, or Pop-up display, you can move/resize a display. Click right mouse button to open context menu to Delete item or set up Event link or Dwell time setting.



Context menu	Description
Delete item	
Event link	Motion, Alarm In, Alarm Out
Dwell time	Continuous, 5sec, 10sec, 30sec, 60sec

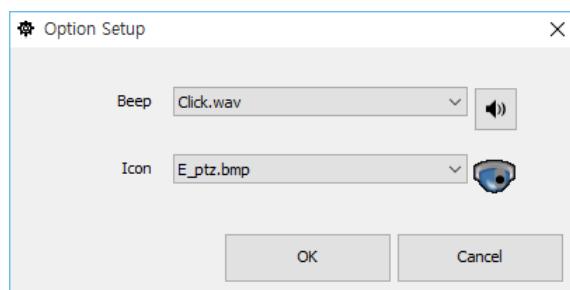
## NETWORK VIDEO RECORDER C/S

### 8.3.3. To save items to E-map

- 1) To save E-map, click [  ] button and it will be switched to [  ] button.
- 2) In a confirmation pop-up window, click [OK] button.

### 8.3.4. To set up options of items

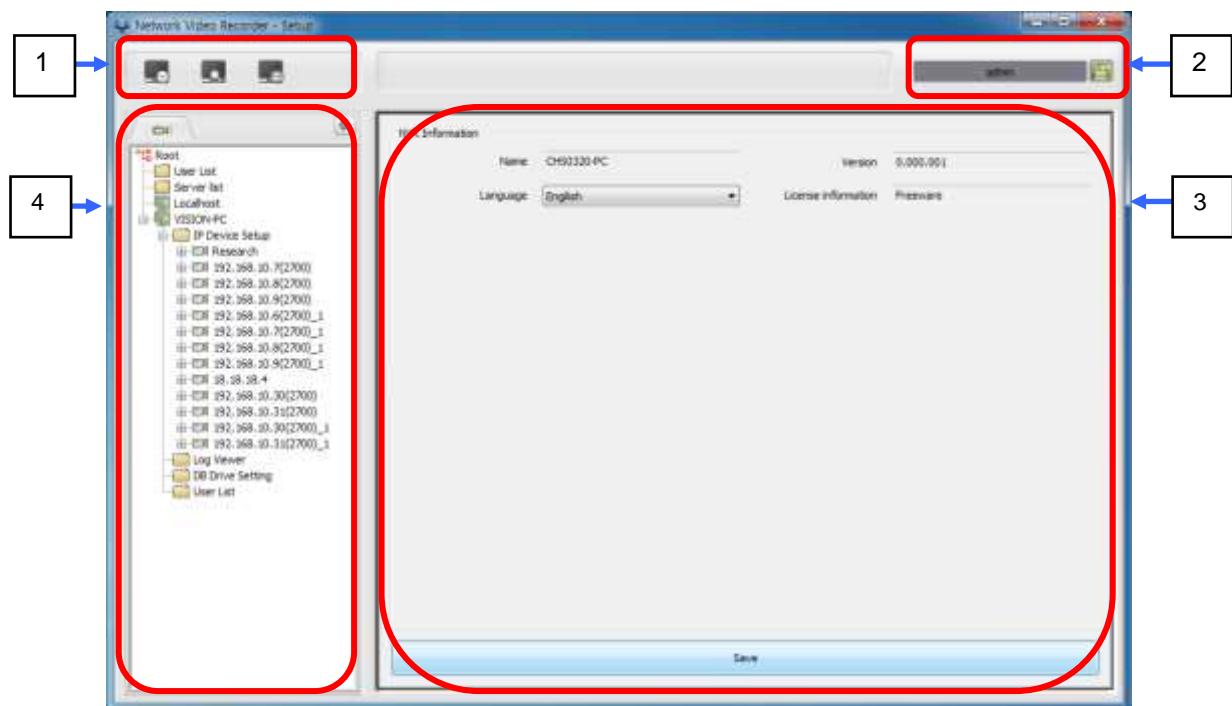
- 1) You can set up options of items by context menu (right mouse button).
- 2) Sets up beep: click [  ] button and you can hear a beep.
- 3) Sets up icon: icons can be found through a [  ] picture shown in the right.
- 4) To save, click [OK] button.



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## 9. NVR Client/Server Setup

### 9.1. User Interface



No.	Items	Icons	Description
1	Program Icons		Selects Components to switch.
2	Login info		Login buttons
3	Setup Window		Setup Window for detailed setup
4	Server List and Setup Menu		NVR information & Display Language
			Registers/ Adds NVR Servers
			Shows NVR Sever System
			Adds/Edits/Deletes IP Devices
			Views Log information of NVR Server

### 9.2. NVR Information ( )

: NVR information & Language setup

1). Click [ ] and it displays NVR information & Current display language.

2) You can set the language for NVR.

Available languages: English/ Korean/ Russian/ Spanish/ Portuguese/ Japanese

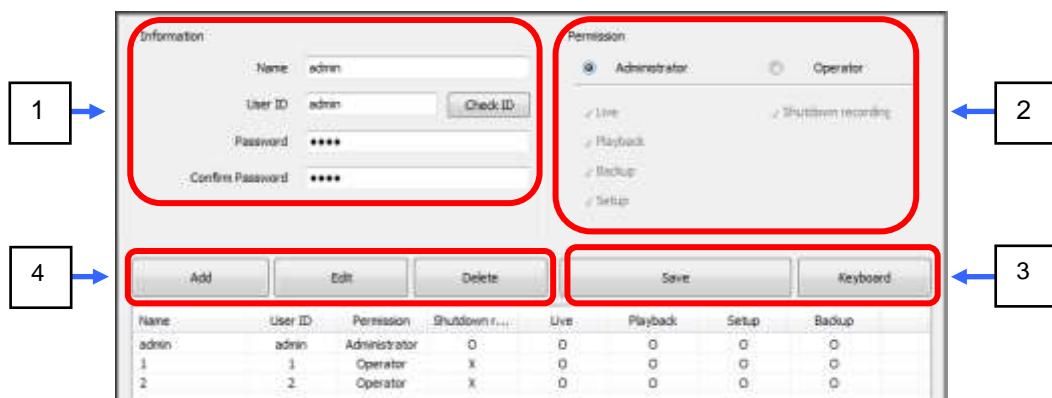
3) After the language is checked, click [Save] button to save it to the NVR Client.



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## 9.3. User List ( User List )

You can register users to the user list of NVR.

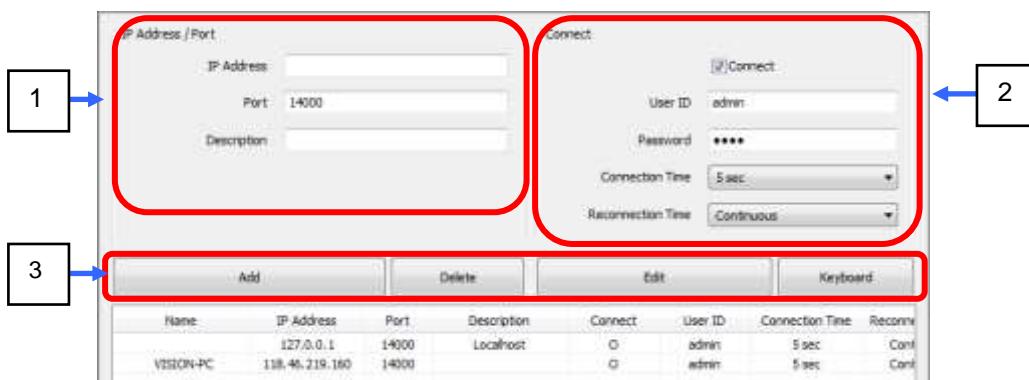


The screenshot shows the 'User List' configuration screen. It has two main sections: 'Information' and 'Permission'. The 'Information' section contains fields for Name (admin), User ID (admin), Password (\*\*\*\*), and Confirm Password (\*\*\*\*). The 'Permission' section includes a radio button for 'Administrator' (selected) or 'Operator', and checkboxes for Live, Playback, Backup, Setup, and Shutdown recording. Below these are buttons for Add, Edit, Delete, Save, and Keyboard. A table at the bottom lists existing users with columns for Name, User ID, Permission, and various permissions like Live, Playback, Backup, Setup, and Shutdown recording.

No.	Items	Description
1	Information	Name, User ID, Password, Confirmation Password
2	Permission (management)	Administrator: has all permissions Operator: its permission can be specified; Live/ Playback, Backup/ Setup/ Shutdown recording
3	Add/ Edit/ Delete	Adds/ Edits/ Deletes the selected users
4	Save	Saves User's list to NVR client

## 9.4. Server List ( Server list )

It is used to register NVR Server/Client Server (IP Address, User ID & Password)



The screenshot shows the 'Server List' configuration screen. It has two main sections: 'IP Address / Port' and 'Connect'. The 'IP Address / Port' section contains fields for IP Address, Port (14000), and Description. The 'Connect' section includes a checkbox for 'Connect', fields for User ID (admin) and Password (\*\*\*\*), and dropdowns for Connection Time (5 sec) and Reconnection Time (Continuous). Below these are buttons for Add, Delete, Edit, and Keyboard. A table at the bottom lists existing servers with columns for Name, IP Address, Port, Description, Connect, User ID, Connection Time, and Reconn.

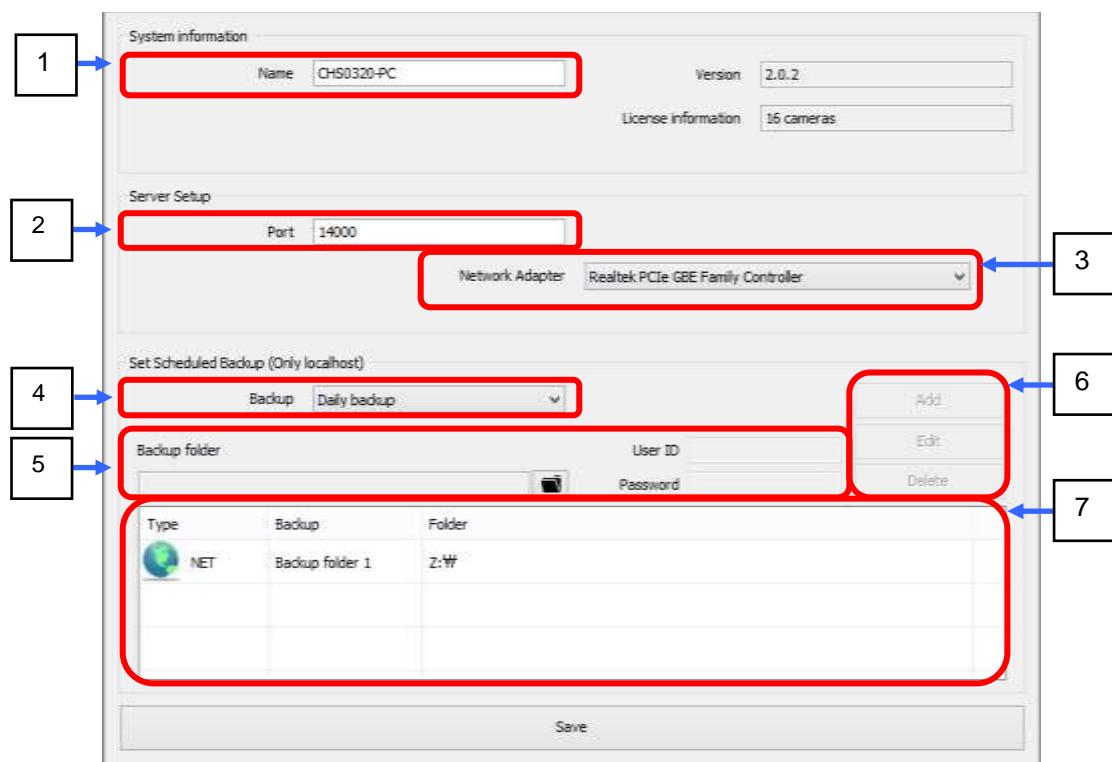
No.	Items	Description
1	IP Address/ Port	Set IP Address, Port & Description of NVR Server
2	Connection setting	Server connection information (User ID, Password, Connection Time, Reconnection Time)
3	Add Server	Adds/ Edits/ Deletes the desired sever from Server list

# NETWORK VIDEO RECORDER C/S

## 9.5. NVR Sever

### 9.5.1. System Setting (VISION-PC)

You can set up System of NVR Server.

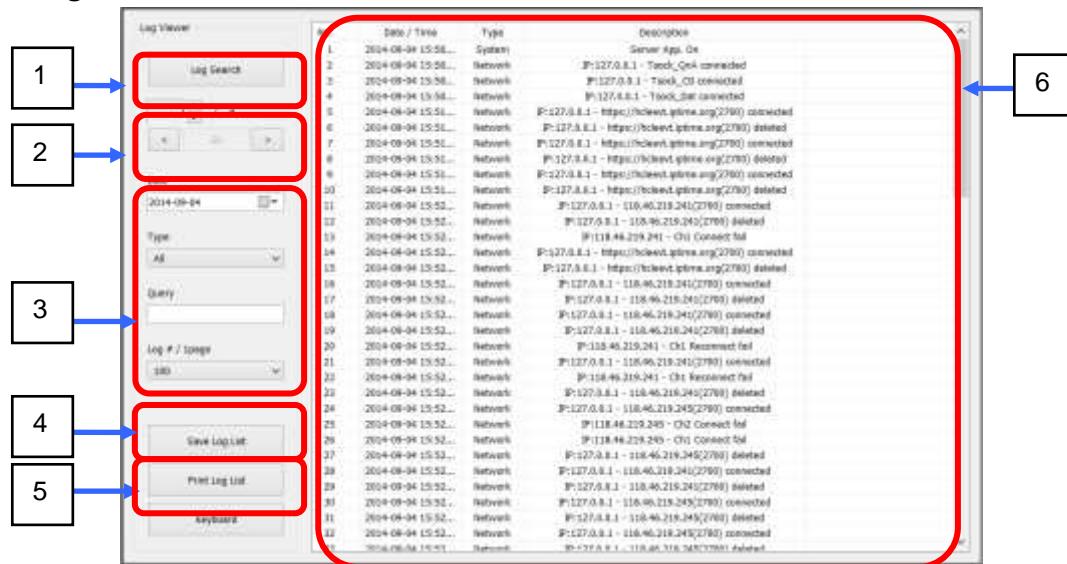


No.	Items	Description
1	System Information Name	You can set a name for NVR Server
2	Port Setup	NVR Server port setup
3	Network Server network adapter setup	Sets up when using dual network adapters.
4	Backup	Local host NVR server scheduled backup settings (Remote NVR server is not supported)
5	Backup folder	Backup folder settings If a network drive, Set User ID and Password.
6	Add, Edit, Delete	Adds/ Edits/ Deletes the selected backup folder
7	Backup folder List	Displays the backup folder list (The backup is set to "Daily Backup" and the backup folder is added, you can set scheduled backup for each camera.)

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### 9.5.2. Log Viewer( Log Viewer )

You can view all the log information (System, User, Network, Event) on the NVR Server and search them with various ways. And you can save or print the searched log list.



No.	Items	Description
1	Log Search	Search button
2	Page Search	Turns to the selected page
3	Select Date/ Log type/ Query	Choose Search types ( Date, Log types, Query, Log # per page).
4	Save Log List	Saves log list
5	Print Log List	Print log list
6	Log List	Displays the log list

# NETWORK VIDEO RECORDER C/S

## 9.5.3. DB Drive Setting (📁 DB Drive Setting)

You can set up DB Drive of NVR Server.

The screenshot shows the 'DB Drive Setting' interface. On the left, there's a sidebar with icons for 'All Drive' (selected), 'Volume 1', 'Volume 2', and 'Volume 3'. The main area displays a table of drives:

Drive	Volume	Total Size	Free Size	DB Size
C:\W	System	1863 GB	1826 GB	0 GB
D:\W	Volume1	1863 GB	0 GB	1842 GB
E:\W	Volume2	1863 GB	0 GB	1861 GB
F:\W	Volume3	162 GB	0 GB	161 GB
G:\W	Volume3	70 GB	0 GB	69 GB

A red box highlights the table. Below it, a detailed view for drive C:\W - System shows a progress bar from 0% to 100%. At the bottom, there are buttons for 'Add', 'Delete', 'Volume auto-config' (with a gear icon), and 'Save'. Numbered callouts point to these elements:

- 1: Points to the 'All Drive' icon in the sidebar.
- 2: Points to the table of drives.
- 3: Points to the detailed view of drive C:\W.
- 4: Points to the 'Volume auto-config' button.
- 5: Points to the 'Delete' button.
- 6: Points to the 'Volume auto-config' button.

**Table: DB Drive Setting Items and Descriptions**

No.	Items	Description
1	Volume List	Shows Volume list
2	Drive List	Show DB Drive list
3	Drive information & Size Setting	Show the Volume information of Selected Drive and sets up the size of DB drive
4	Volume Add button	Add the volume.
5	Drive Delete button	Delete the drive from volume
6	Volume auto-configuration button	Automatically configures the volumes

Volume: a unit of recording database (DB) of NVR server. It is a bunch of Drives.

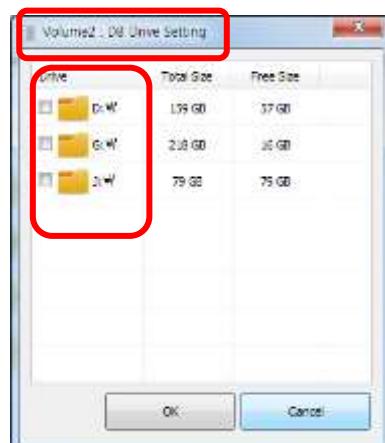
**It is recommended to configure (set up) one physical Hard Drive into one Volume.**

An O/S installed drive is excluded in the Volume configuration.

You can select a desired volume for recording by each camera/device individually. **It is for stable distributed recording of several cameras by volume.**

### To add a volume

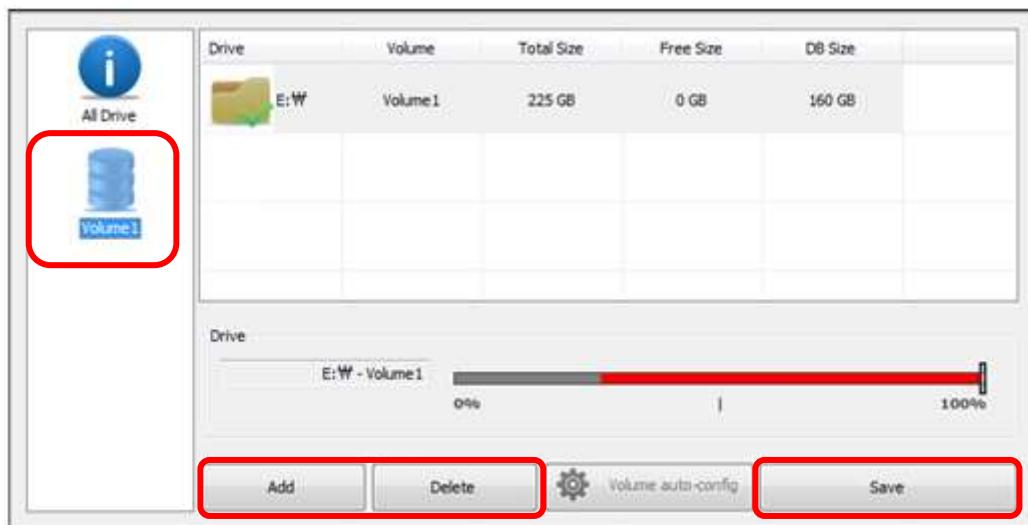
- 1) Click "Add" button.
- 2) The Volume Add window appears.
- 3) Select a desired Drive and click "OK" button.



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## To Edit a Volume,

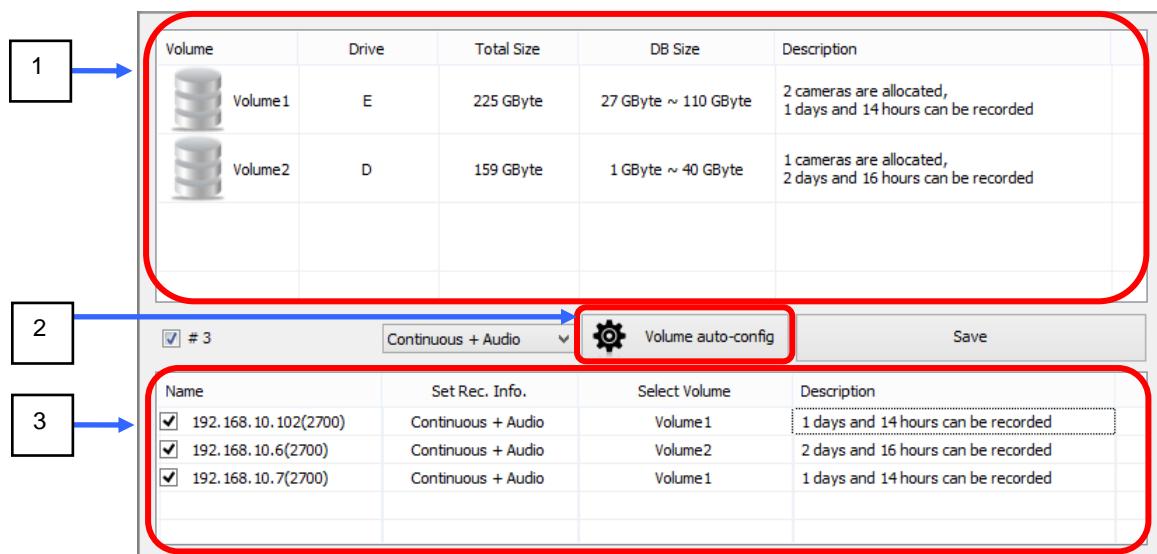
- 1) Select a volume of Volume list.
- 2) To add a drive, click the “Add” button and the Volume add window appears. Select a desired drive.
- 3) To delete a drive from volume, select the drive. And click “Delete” button.
- 4) When done, click “Save” button to apply to NVR server.



# NETWORK VIDEO RECORDER C/S

## 9.5.4. DB Recording Channel Setup ( DB Recording Channel Setup )

You can set up DB Recording Channel Setup of NVR Server.

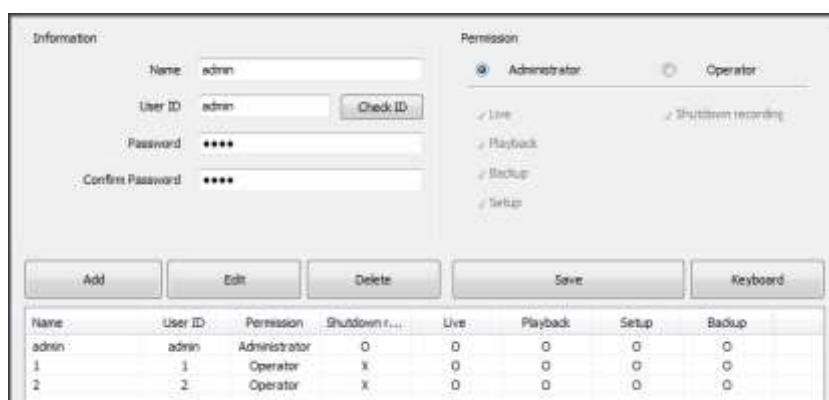


No.	Items	Description
1	Volume List	Shows Volume list and information
2	Volume auto-configuration button	Automatically configures the volume of camera
3	DB Recording Channel List	List of camera recording schedule and volume settings

## 9.5.5. User List of NVR Server ( User List )

You can register the User group of Selected NVR Server.

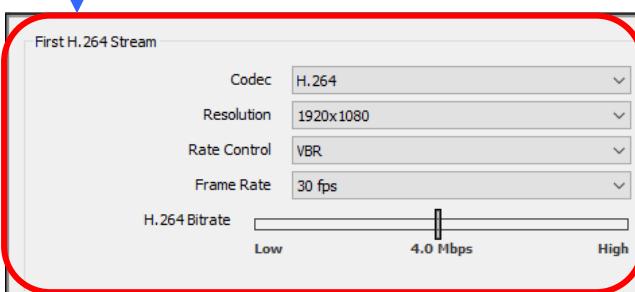
(the same-format window of User list of NVR Client)

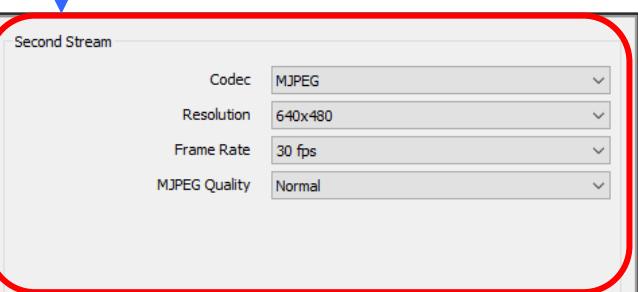


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## 9.5.6. Stream Setup ( Stream Setup )

You can set up Stream Setup of NVR Server.

1  


2  


Stream List											
<input checked="" type="checkbox"/> # 6		Rate Control	1 - Codec	1 - Resolution	1 - fps	1 - bps	2 - Codec	2 - Resolution	1 - fps	2 - bps	2 - MJPEG Quality
<input checked="" type="checkbox"/>	Research	VBR	H.264	1280x1024	30 fps	4.0 Mbps	H.264	720x480	7 fps	1.0 Mbps	
<input checked="" type="checkbox"/>	192.168.10.8(2700)	VBR	H.264	1920x1080	30 fps	4.0 Mbps	H.264	640x480	20 fps	1.0 Mbps	
<input checked="" type="checkbox"/>	192.168.10.7(2700)	VBR	H.264	1920x1080	20 fps	4.0 Mbps	H.264	640x480	30 fps	1.0 Mbps	
<input checked="" type="checkbox"/>	192.168.10.9(2700)	VBR	H.264	1920x1080	30 fps	4.0 Mbps	H.264	640x480	30 fps	1.0 Mbps	
<input checked="" type="checkbox"/>	192.168.10.20(2700)	VBR	H.264	1920x1080	30 fps	4.0 Mbps	MJPEG	640x480	10 fps	1.0 Mbps	
<input checked="" type="checkbox"/>	192.168.1.239(2700)	VBR	H.264	1920x1080	30 fps	4.0 Mbps	H.264	640x480	15 fps	1.0 Mbps	Low

3

No.	Items	Description
1	First H.264 Stream	Sets up 1'st h.264 stream of selected cameras
2	Second Stream	Sets up 2'nd stream of selected cameras
3	Camera List to setup	Name : Registered camera name on the server Rate Control : CBR / VBR, H.264 only 1 - Codec : Codec of 1'st stream (H.264) 1 - Resolution : Resolution of 1'st stream 1 - fps : Frame rate of 1'st stream 1 - bps : Bitrate of 1'st stream 2 - Codec : Codec of 2'nd stream (H.264 / MJPEG) 2 - Resolution : Resolution of 2'nd stream 2 - fps : Frame rate of 2'nd stream 2 - bps : H.264 Bitrate of 2'nd stream 2 – MJPEG Quality : MJPEG Quality of 2'nd stream

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## 9.5.7. Import / Export ( Import / Export )

You can import / export Camera Settings of NVR Server.



No.	Items	Description
1	The file path for import	Select the file "porting.ini" to import -> Active the [Import] button and add cameras to import to the list
2	Import	Add cameras or update settings of selected NVR Server
3	Camera List to import	<ul style="list-style-type: none"> <li>1. Action : None / Add / Update None - The camera is present on the server and the settings are the same. -&gt; disable anything Add - Add the camera and apply the settings. Update - Update the settings of the camera.</li> <li>2. IP Device Setup : If the same setting is indicated by "=" . If you do not want to apply the setting, choose the "X". (Hereinafter the same)</li> <li>3. Set Record Information : Except the volume setting</li> <li>4. Set Scheduled Backup : Except the backup folder setting</li> <li>5. PTZ on Display</li> </ul>

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4	The folder for export	Select the folder and display the folder path to export
5	Export	Export camera settings of the selected NVR server

1. Select the [Import / Export] tab of the NVR server to export the camera settings.
2. Select the folder path to export.
3. [Export] Run.
4. Select the [Import / Export] tab of the NVR server to import the camera settings.
5. Select the file “porting.ini” of the server folder in the [Export] folder.
6. Off camera checks do not apply settings in the camera list.
7. If you do not want to apply some settings, choose the “X” in the camera list.
8. [Import] Run.

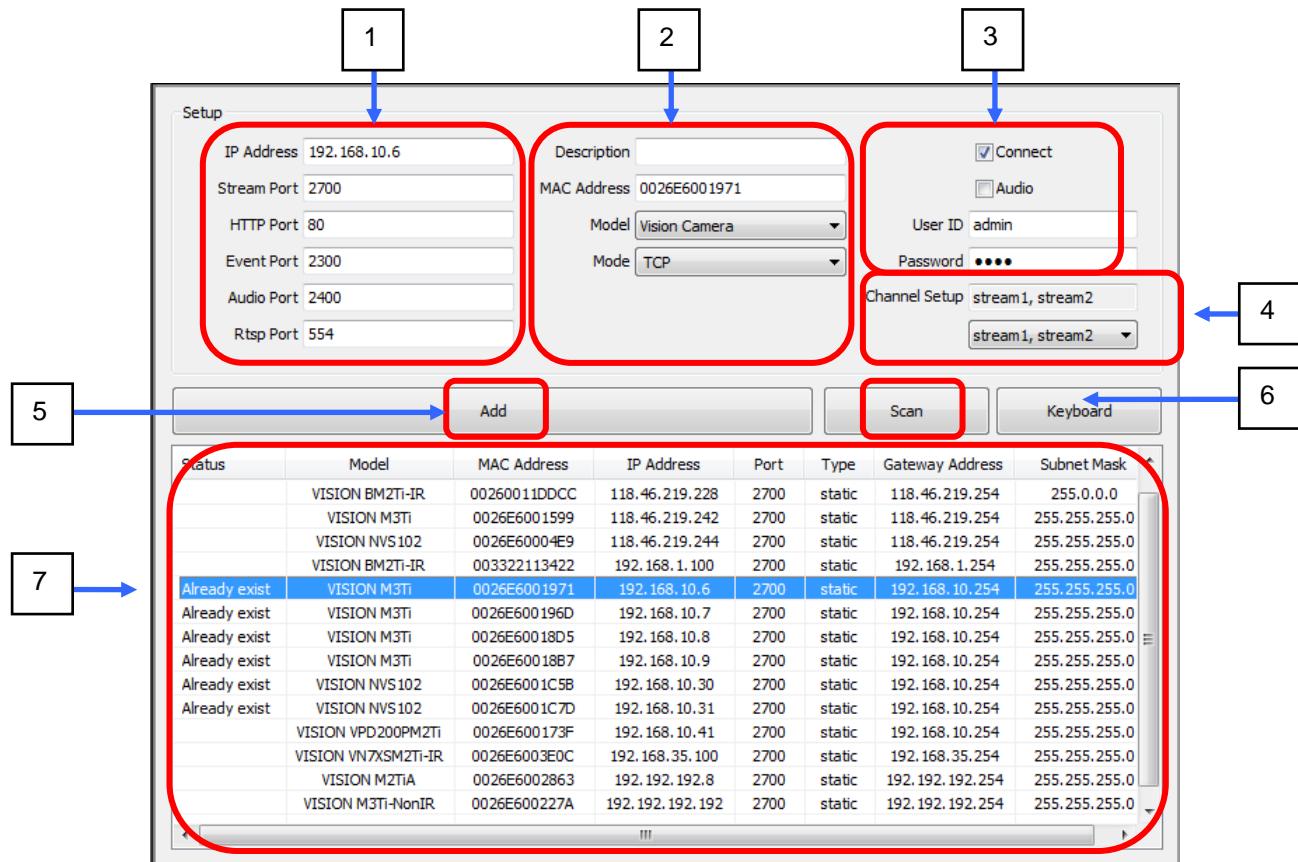
# NETWORK VIDEO RECORDER C/S

## 9.6. Camera

### 9.6.1. Adding IP Devices (Camera & Video Servers)

 IP Device Setup : Searching and Adding IP Devices

Click "IP Device Setup" and then Setup window will appear.



No.	Items	Description
1	IP Address & Port	Sets up IP address and Port of IP Cameras
2	Camera Description & MAC address	Edit Description & MAC address
3	Camera ID & Password	Edit Camera ID & Password
4	Camera channel Setup	Sets up Streaming types of Channels
5	Camera Add Button	Add Camera
6	Scan Button	Displays Camera list
7	Scanned Device List	<b>Discovered device list</b> (When you select desired device from the list, the device information is displayed on the setup)

#### Caution:

When you select a desired device from the discovered device list, all is set to "DEFAULT" except IP Address, Stream & HTTP Port, MAC Address and Model information.

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## 9.6.2. Camera Setup

Research (IP address (Port) or Description): You can edit information of a registered device

It has the same format of IP Device Setup. But, **IP Address, Stream Port** cannot be edited. In the bottom, the connected IP device video will be displayed.

## 9.6.3. Set Record Information

Set Rec. Info.: It is to set up DB Recording by schedule.

Select Volume							Pre-time		Post-time	
Volume 1 4 cameras are allocated in Volume1							5		5	
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		Holiday		
0	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	0	X		
1	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	1	X		
2	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	2	X		
3	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	3	X		
4	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	4	X		
5	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	5	X		
6	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	6	X		
7	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	7	X		
8	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	8	X		
9	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	9	X		
10	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	10	X		
11	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	11	X		
12	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	12	X		
13	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	13	X		
14	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	14	X		
15	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	15	X		
16	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	16	X		
17	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	17	X		
18	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	18	X		
19	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	19	X		
20	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	20	X		
21	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	21	X		
22	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	22	X		
23	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	E+C+A	23	X		

**Volume Selection** → **Recording Schedule (Weekly)**  
**E : Event**  
**C : Continuous**  
**A : Audio**  
**(Mouse click or Dragging)**

**Recording type** →  None  Continuous  Event  Audio

**Camera numbers in the selected volume**

**Pre/Post time setup**

**\*Holiday Recording schedule Setup**

**Save the schedule to NVR server**

**Save**

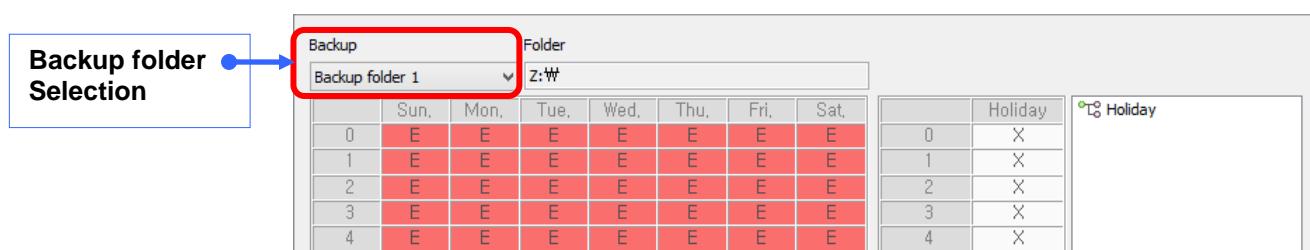
\* Holidays Recording schedule setup : You can add recording schedule for holidays by setting date, description

# NETWORK VIDEO RECORDER C/S

## 9.6.4. Set Scheduled Backup

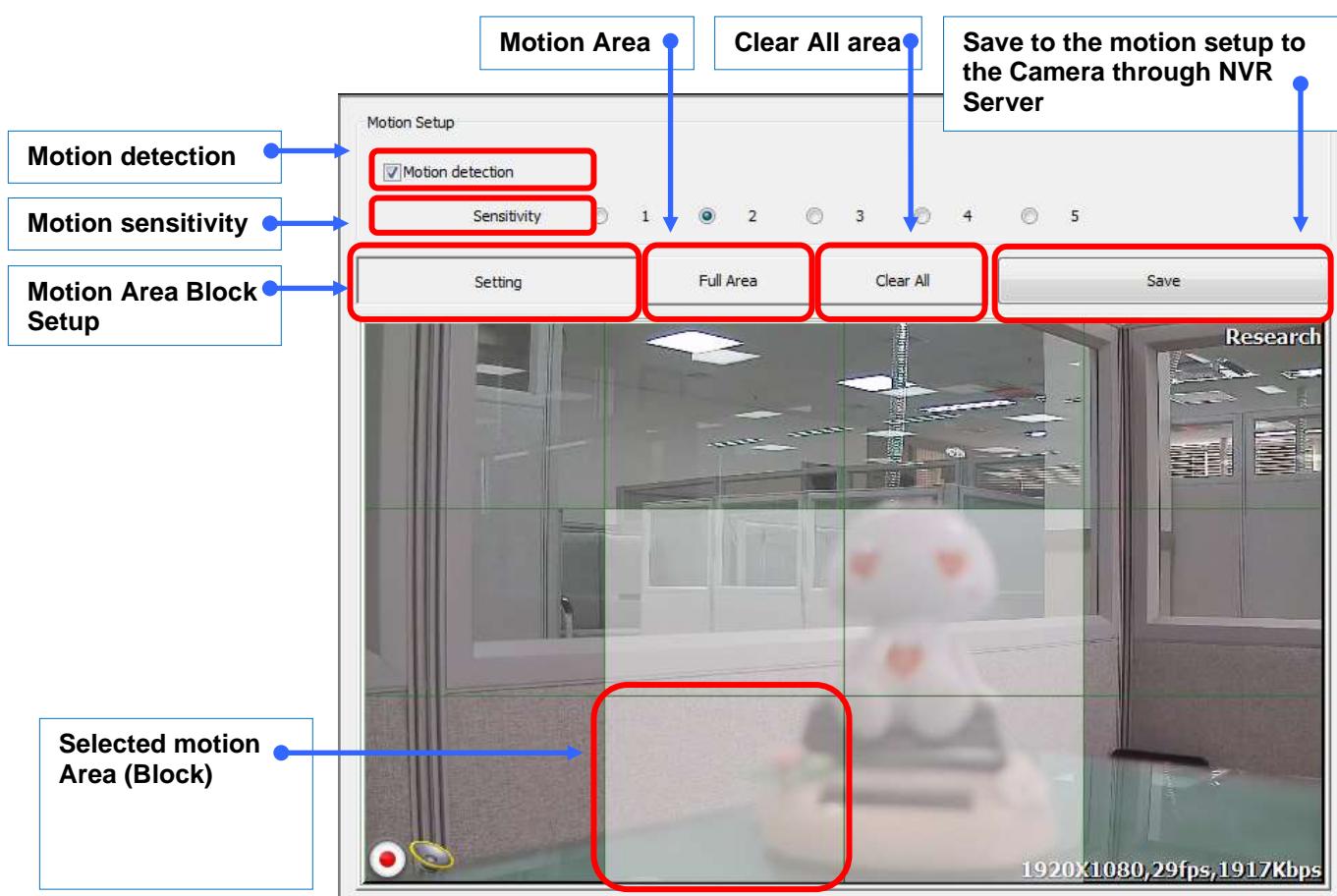
**Set Scheduled Backup** : It is to set up scheduled backup.

You can set up scheduled backup by selecting the backup folder is added in the system settings of the NVR server setup. The remaining portion of the setup is the same as the "Set Record Information".



## 9.6.5. Motion Setup

**Motion Setup** : Motion Area Setup Pane



You can select or delete Motion area by clicking the mouse and dragging.

# NETWORK VIDEO RECORDER C/S

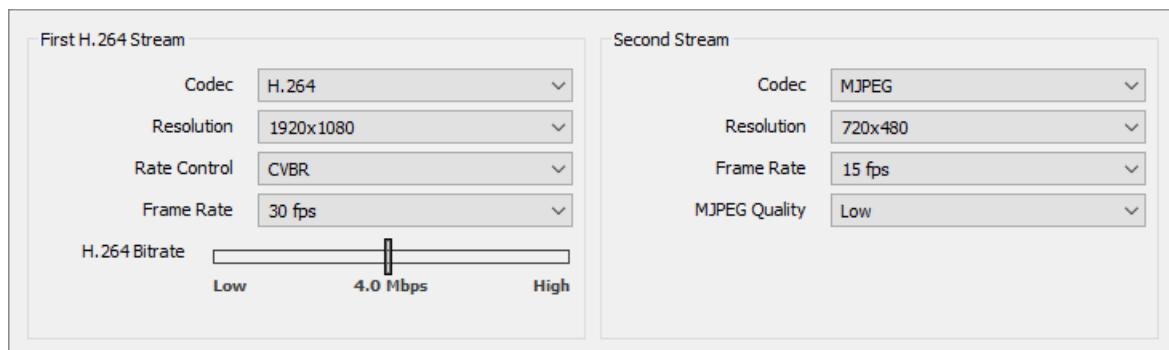
## 9.6.6. Stream Setup

 Stream Setup: Stream Setup Pane.

You can set up dual streams.

The first stream is possible only H.264 setup.

The second stream can be H.264 / MJPEG settings.

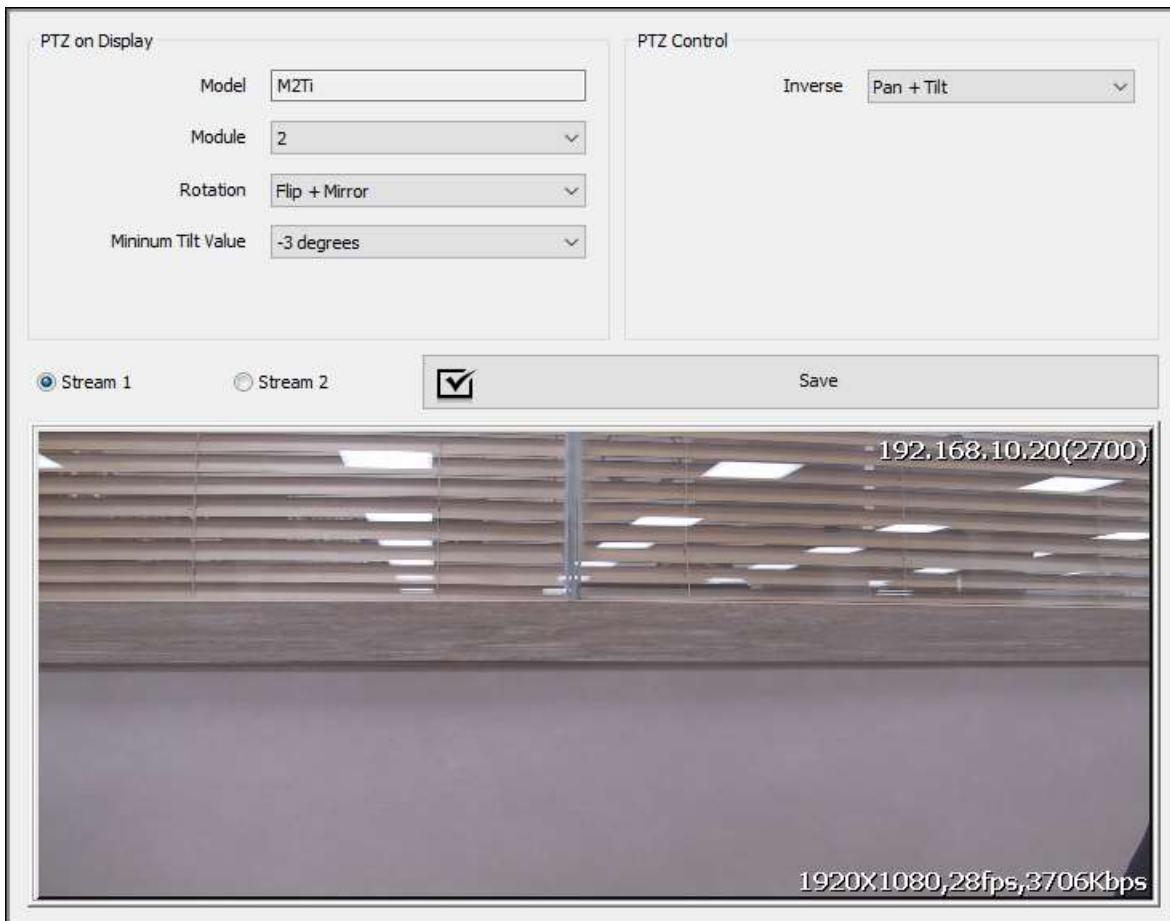


No.	Items	Description
1	Codec	Sets up Codec. (H.264 / MJPEG)
2	Resolution	Sets up Resolution.
3	Rate Control	Sets up Rate Control. (VBR / CBR, H.264 only)
4	Frame Rate	Sets up Frame Rate. (1~30 fps)
5	H.264 Bitrate	Sets up Bitrate (H.264 only)
6	MJPEG Quality	Sets up MJPEG Quality (low / normal / high, MJPEG only)

# NETWORK VIDEO RECORDER C/S

## 9.6.7. PTZ on Display

 [PTZ on Display](#) : PTZ on Display Setup Pane.

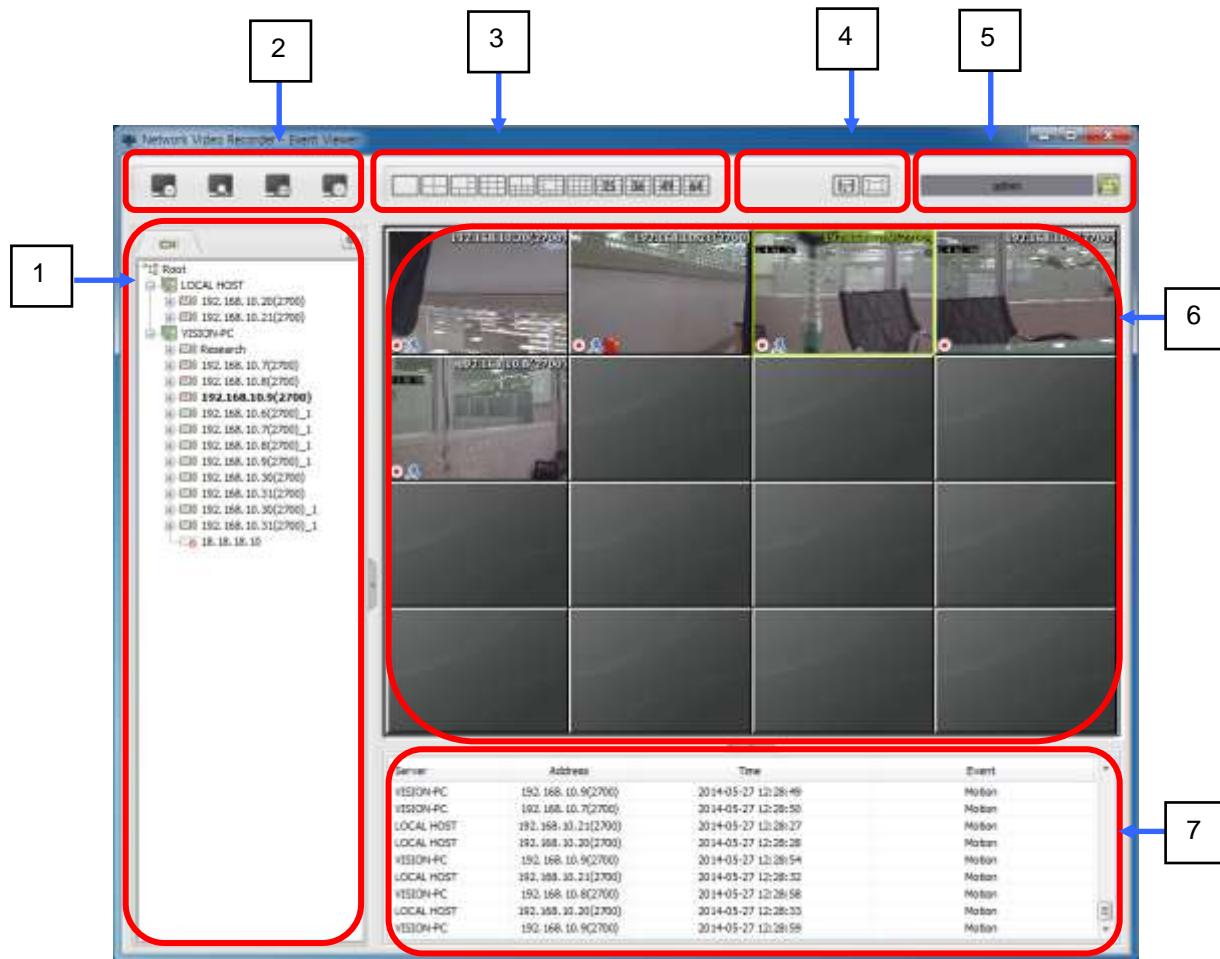


No.	Items	Description
1	Model	Model Name.
2	Module	Sets up Module Number.
3	Rotation	Sets up Rotation. (None / Flip / Mirror / Flip + Mirror) Apply to PTZ on Display and PTZ Panorama.
4	Minimum Tilt Value	Sets up Minimum Tilt Value. (0 / -3 / -38 degrees ) Apply to PTZ on Display and PTZ Panorama.
5	Inverse	Sets up Inverse. (None / Pan / Tilt / Pan + Tilt) Apply to Pan and Tilt.
6	Display Screen	Verify the settings on the screen directly over the control of PTZ on Display.

# NETWORK VIDEO RECORDER C/S

## 10. NVR Client Event Viewer

### 10.1. User Interface



No.	Item	Icon	Description
1	Server List		Server List
2	Program Icons		Select Components to switch
3	Display modes		Selects the desired screen channel
4	Function Button (Screen modes)		Snapshot Saving & Print
			Full Screen mode
5	Login info		Login / Logout
6	Display		Displays Event Triggered Video
7	Event Log		Show Event logs

# NETWORK VIDEO RECORDER C/S

## 10.2. Setup Event Viewer

- A. Connect to an IP Camera (or device) and register Server Address of Event Viewer as follows;

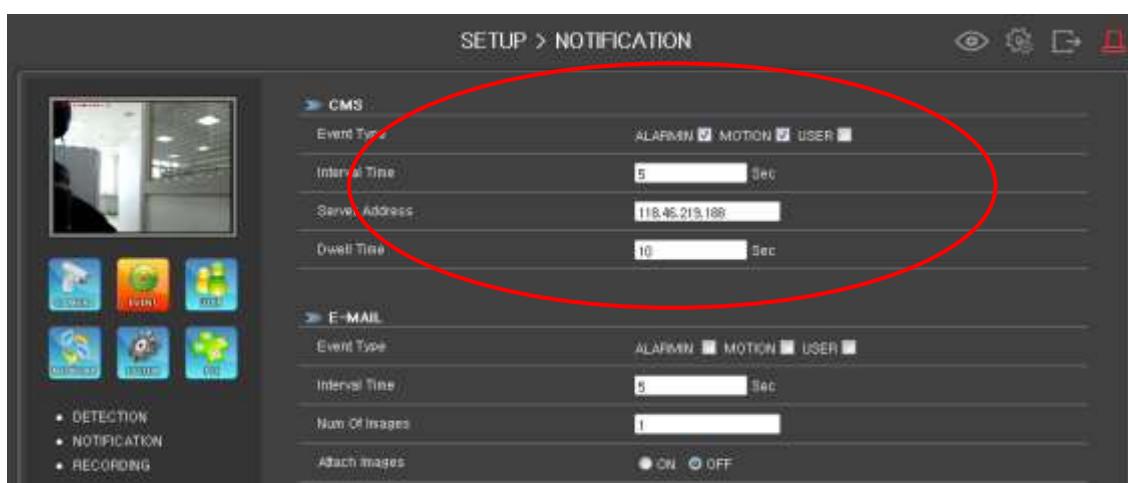
Setup → Event → Notification → Check and enter related info on CMS

Event type: Alarm, Motion, User

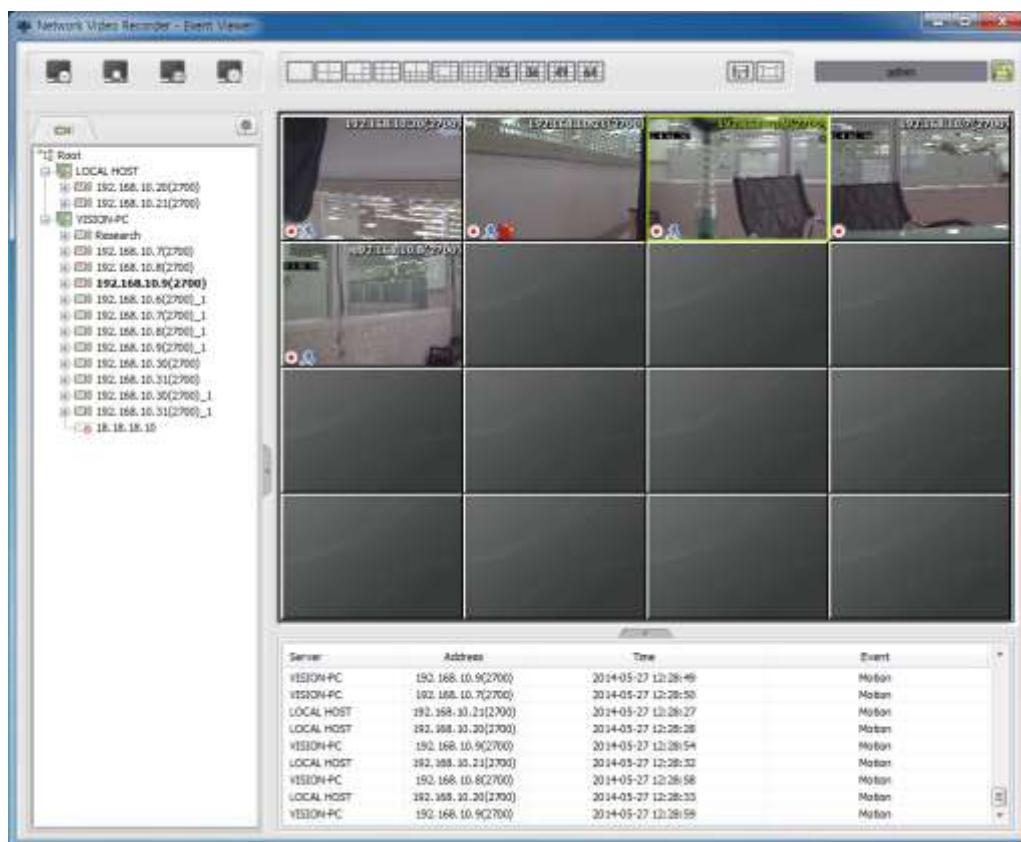
Interval time: sec

Server Address: IP address of NVR Server

Dwell time: sec



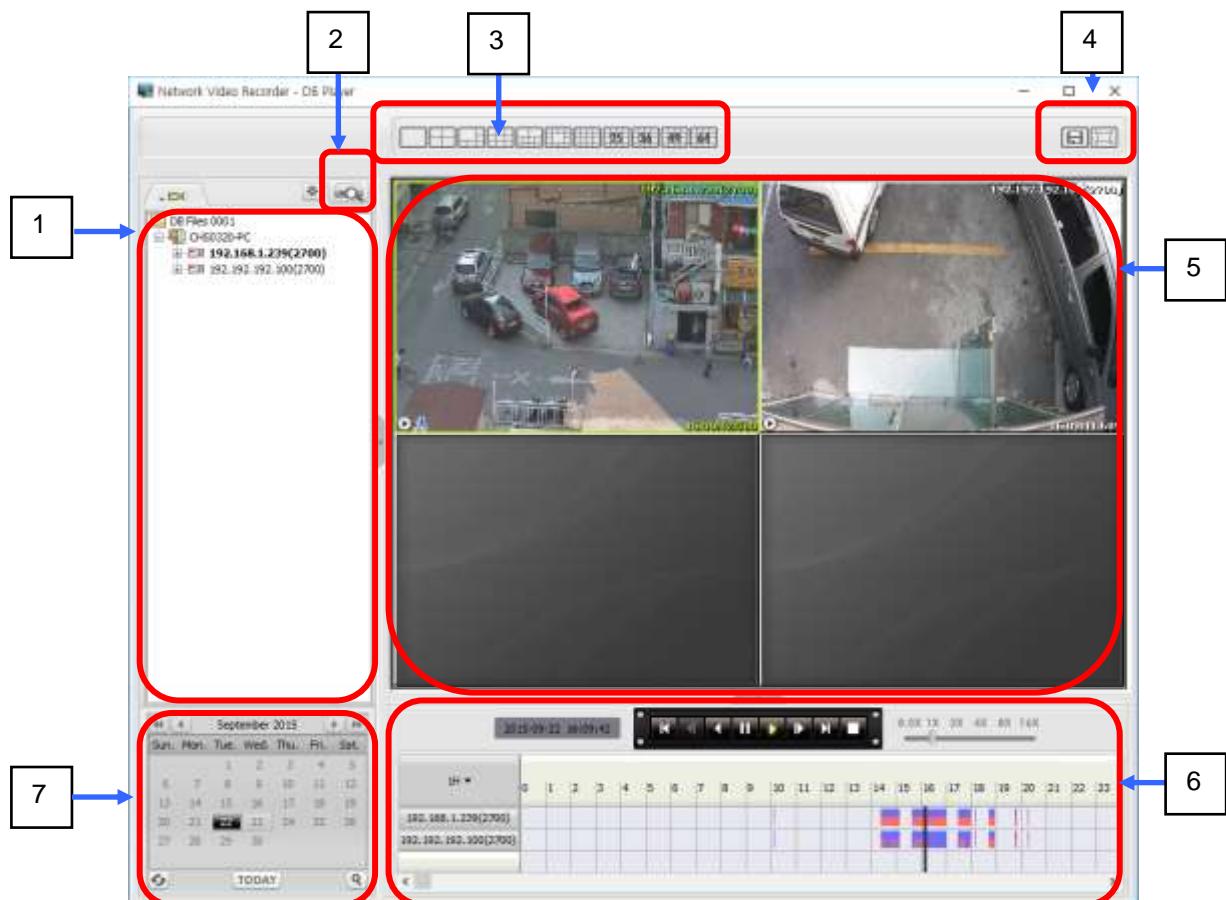
- B. When event triggered, its event info added to the Event log and it will appear on the display screen during the defined "Dwell time".



# NETWORK VIDEO RECORDER C/S

## 11. NVR – DB Player

### 11.1. User Interface



No.	Item	Icon	Description
1	Backup List		Backup List
2	Open Backup Button		Open Backup DB Files
3	Display modes		Selects the desired screen channel
4	Function Button (Screen modes)	 	Snapshot Saving & Print Full Screen mode
5	Display		Shows all desired
6	Timeline		Playback the recorded data
7	Calendar		Playback the recorded data

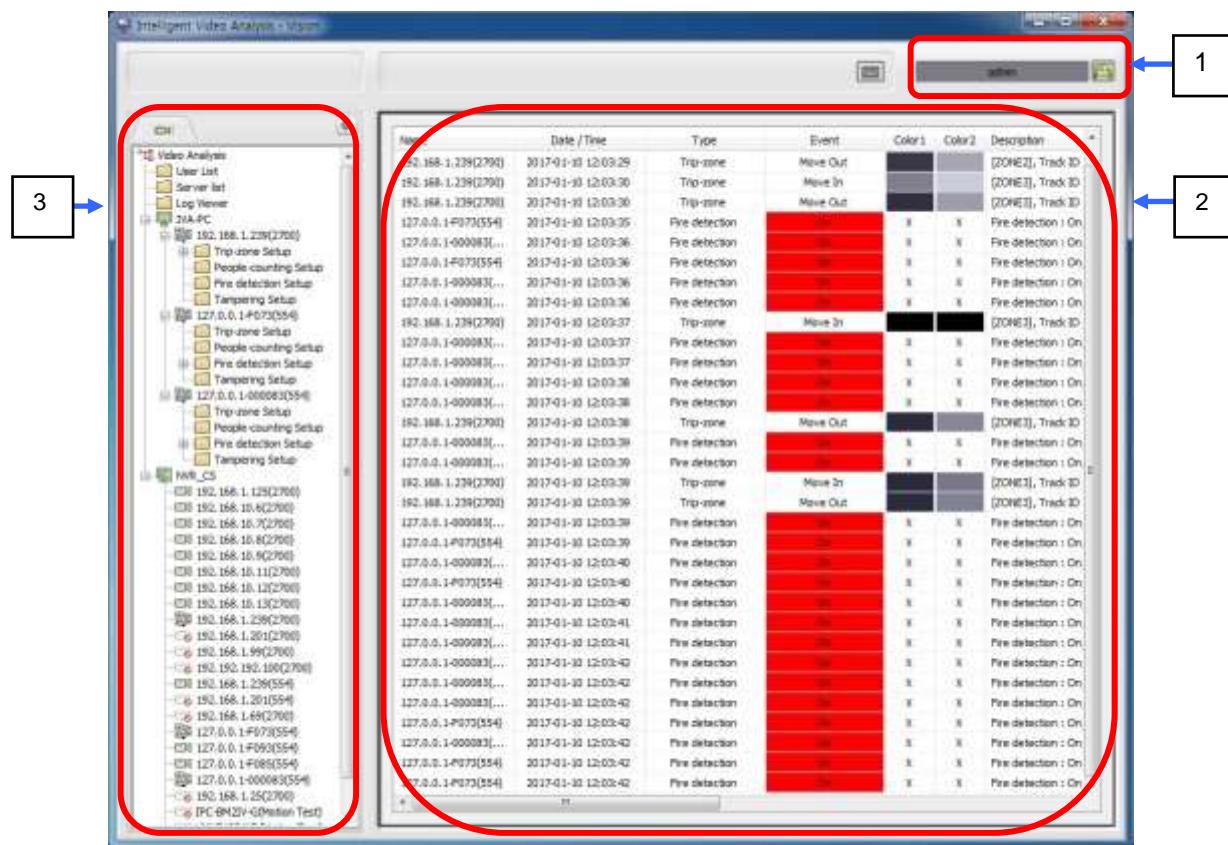
All the features of NVR - DB Player are almost the same of NVR Client Playback.

If you run DB\_Player.exe in the backup folder [DB Files xxx] DB-Player window appears, you can use the same as NVR Client Playback. It is also possible to play at the same time another backup file using the [Open Backup] button. After screens being configured, select the date from the calendar.

# NETWORK VIDEO RECORDER C/S

## 12. IVA Client/Server Setup

### 12.1. User Interface

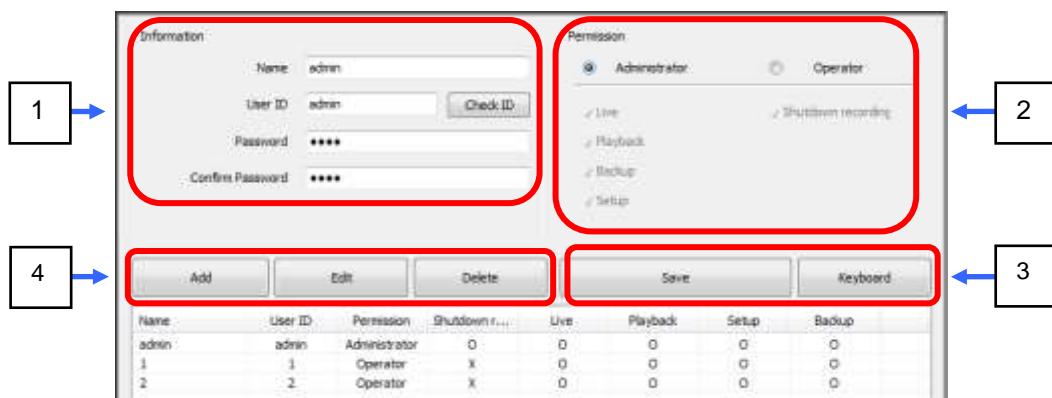


No.	Items	Icons	Description
1	Login info		Login buttons
2	Live event log window		
3	Server List and Setup Menu		Live event log display
			Register users of IVA CS & Permission
			Registers/ Adds NVR Servers
			Views Log information of IVA CS
			Shows IVA CS System & Camera info.
			Shows NVR Sever System & Camera info.
			Trip-zone Setup
			People-counting Setup
			Fire detection Setup
			Tampering Setup

# NETWORK VIDEO RECORDER C/S

## 12.2. User List ( User List )

You can register users to the user list of IVA CS.

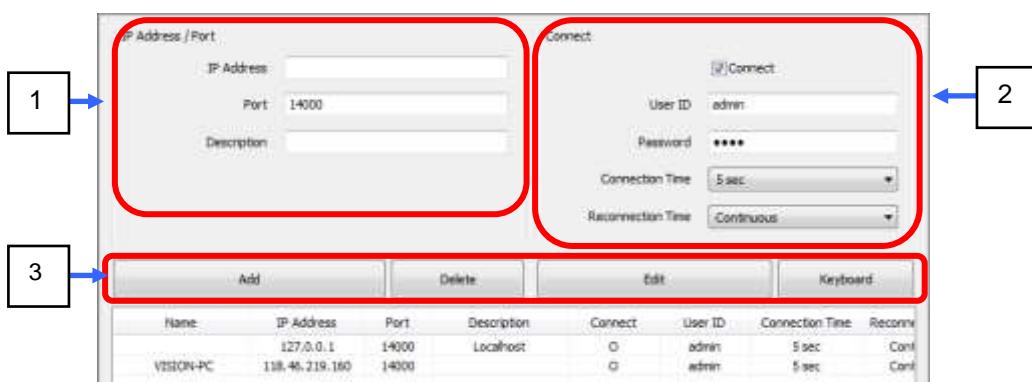


The screenshot shows the 'User List' configuration screen. It has two main sections: 'Information' and 'Permission'. The 'Information' section contains fields for Name (admin), User ID (admin), Password (\*\*\*\*), and Confirm Password (\*\*\*\*). The 'Permission' section includes a radio button for 'Administrator' (selected) or 'Operator', and checkboxes for various permissions: Line, Playback, Backup, Setup, and Shutdown recording. Below these sections is a table of existing users. At the bottom are buttons for Add, Edit, Delete, Save, and Keyboard. Callouts numbered 1 through 4 point to the Name field, the Permission section, the Add button, and the Save button respectively.

No.	Items	Description
1	Information	Name, User ID, Password, Confirmation Password
2	Permission (management)	Administrator: has all permissions Operator: its permission can be specified; Live/ Playback, Backup/ Setup/ Shutdown recording
3	Add/ Edit/ Delete	Adds/ Edits/ Deletes the selected users
4	Save	Saves User's list to NVR client

## 12.3. Server List ( Server list )

It is used to register NVR Sever (IP Address, User ID & Password)



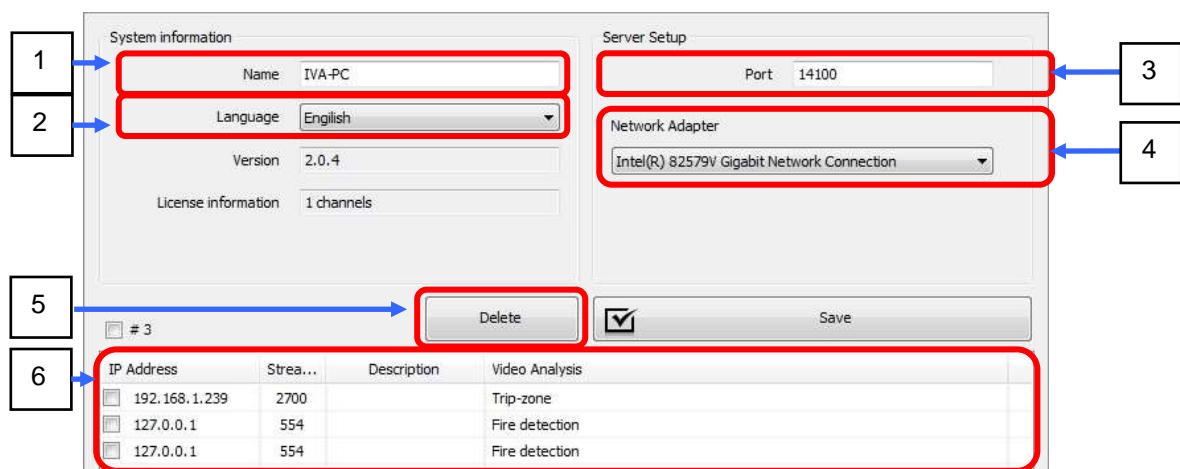
The screenshot shows the 'Server List' configuration screen. It has two main sections: 'IP Address / Port' and 'Connect'. The 'IP Address / Port' section contains fields for IP Address, Port (14000), and Description. The 'Connect' section contains fields for User ID (admin), Password (\*\*\*\*), Connection Time (5 sec), and Reconnection Time (Continuous). Below these sections is a table of existing servers. At the bottom are buttons for Add, Delete, Edit, and Keyboard. Callouts numbered 1 through 3 point to the IP Address/ Port section, the Connect section, and the Add button respectively.

No.	Items	Description
1	IP Address/ Port	Set IP Address, Port & Description of NVR Server
2	Connection setting	Server connection information (User ID, Password, Connection Time, Reconnection Time)
3	Add Server	Adds/ Edits/ Deletes the desired sever from Server list

# NETWORK VIDEO RECORDER C/S

## 12.4. IVA CS System ( IVA-PC )

You can set up System of IVA CS



No.	Items	Description
1	System Information Name	You can set a name for NVR Server
2	Language Setup	You can set a language
3	Port Setup	IVA CS Server port setup
4	Network Server network adapter setup	Sets up when using dual network adapters.
5	Delete	Deletes the selected cameras.
6	Camera List	Displays the camera list of IVA CS & Video Analysis information.

# NETWORK VIDEO RECORDER C/S

## 12.5. IVA Camera ( 192.168.1.239(2700) )

Shows Camera & Video Analysis information



No.	Items	Description
1	Video Analysis Info.	Video Analysis information list
2	Camera information	Camera IP, Port, Mac address & description
3	Delete	Delete Camera from IVA CS Server
4	Display screen	Shows all desired with Video Analysis

# NETWORK VIDEO RECORDER C/S

## 12.6. Trip-zone Setup (📁 Trip-zone Setup)

You can set up Trip-zone Setup

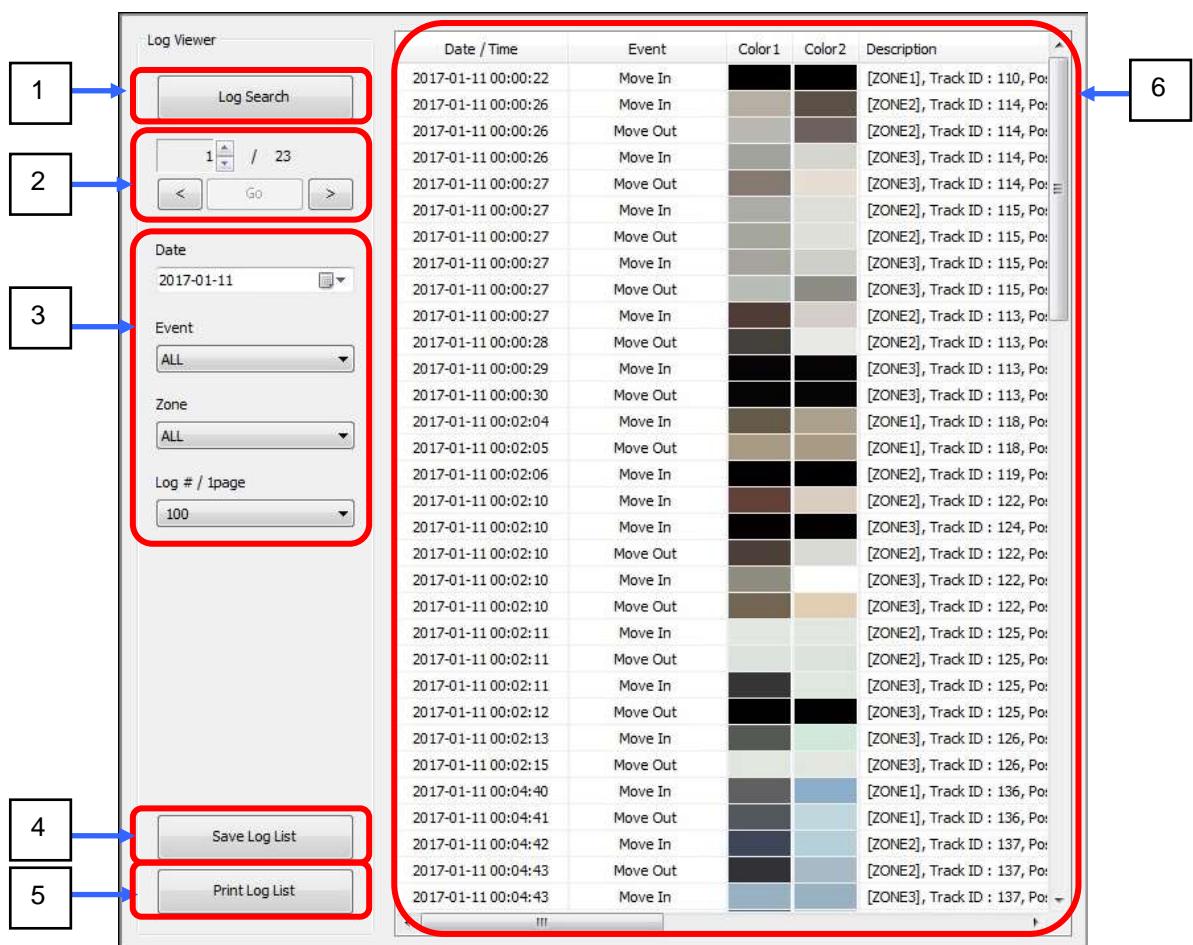


No.	Items	Description
1	Enable Video Analysis	Enable Video Analysis of Trip-zone
2	Track length & Size Filter Setting	Track length & Size Filter Setting Tab button
	Minimum/Maximum Track length	Set the minimum/maximum Track length
	Use Size Filter	Enable Size Filter
	Show Size Filter	Display Size Filter on the screen
	Minimum/Maximum Width	Set the minimum/maximum width of Size Filter
	Minimum/Maximum Height	Set the minimum/maximum height of Size Filter
3	Stream Setup	Stream settings for Video Analysis
4	Zone Setting	Enable Trip-zone setting
	Add	Popup add zone window and add zone using mouse clicks
	Delete / Clear All	Delete the selected zone and delete all of zones
5	Zone setting screen	Trip-zone setting screen using mouse clicks

# NETWORK VIDEO RECORDER C/S

## 12.6.1. Log Viewer ( Log Viewer )

You can view the Trip-zone events.



No.	Items	Description
1	Log Search	Search button
2	Page Search	Turns to the selected page
3	Select Date/ Event type/ Zone	Choose Search types
4	Save Log List	Saves log list
5	Print Log List	Print log list
6	Log List	Displays the log list

# NETWORK VIDEO RECORDER C/S

## 12.6.2. Table ( Table )

Trip-zone events View table by date

**Cumulative table**

**Setting dates and Search events**

Hourly / Minutely	Cumulative (Table)	Setting dates and Search events				
<input type="button" value="Display time list"/>	2017-01-10 <input type="button" value="Search"/>					
Time	ZONE1 - E1	ZONE1 - E2	ZONE1 - ALL	ZONE2 - E1	ZONE2 - E2	
00:00:00 - 00:59:59	42	31	73	57	47	
01:00:00 - 01:59:59	29	19	48	23	18	
02:00:00 - 02:59:59	63	36	99	42	38	
03:00:00 - 03:59:59	27	8	35	25	22	
04:00:00 - 04:59:59	25	9	34	23	16	
05:00:00 - 05:59:59	34	22	56	40	34	
06:00:00 - 06:59:59	31	23	54	40	34	
07:00:00 - 07:59:59	63	44	107	60	50	
08:00:00 - 08:59:59	46	40	86	55	48	
09:00:00 - 09:59:59	61	55	116	64	54	
10:00:00 - 10:59:59	85	81	166	102	81	
11:00:00 - 11:59:59	67	60	127	69	59	
12:00:00 - 12:59:59	28	23	51	26	20	
13:00:00 - 13:59:59	0	0	0	0	0	
14:00:00 - 14:59:59	0	0	0	0	0	
15:00:00 - 15:59:59	0	0	0	0	0	
16:00:00 - 16:59:59	0	0	0	0	0	
17:00:00 - 17:59:59	0	0	0	0	0	
18:00:00 - 18:59:59	0	0	0	0	0	
19:00:00 - 19:59:59	0	0	0	0	0	
20:00:00 - 20:59:59	0	0	0	0	0	
21:00:00 - 21:59:59	0	0	0	0	0	
22:00:00 - 22:59:59	0	0	0	0	0	
23:00:00 - 23:59:59	0	0	0	0	0	

**E1 = Move In events**  
**E2 = Move Out events**  
**ALL = E1 + E2**

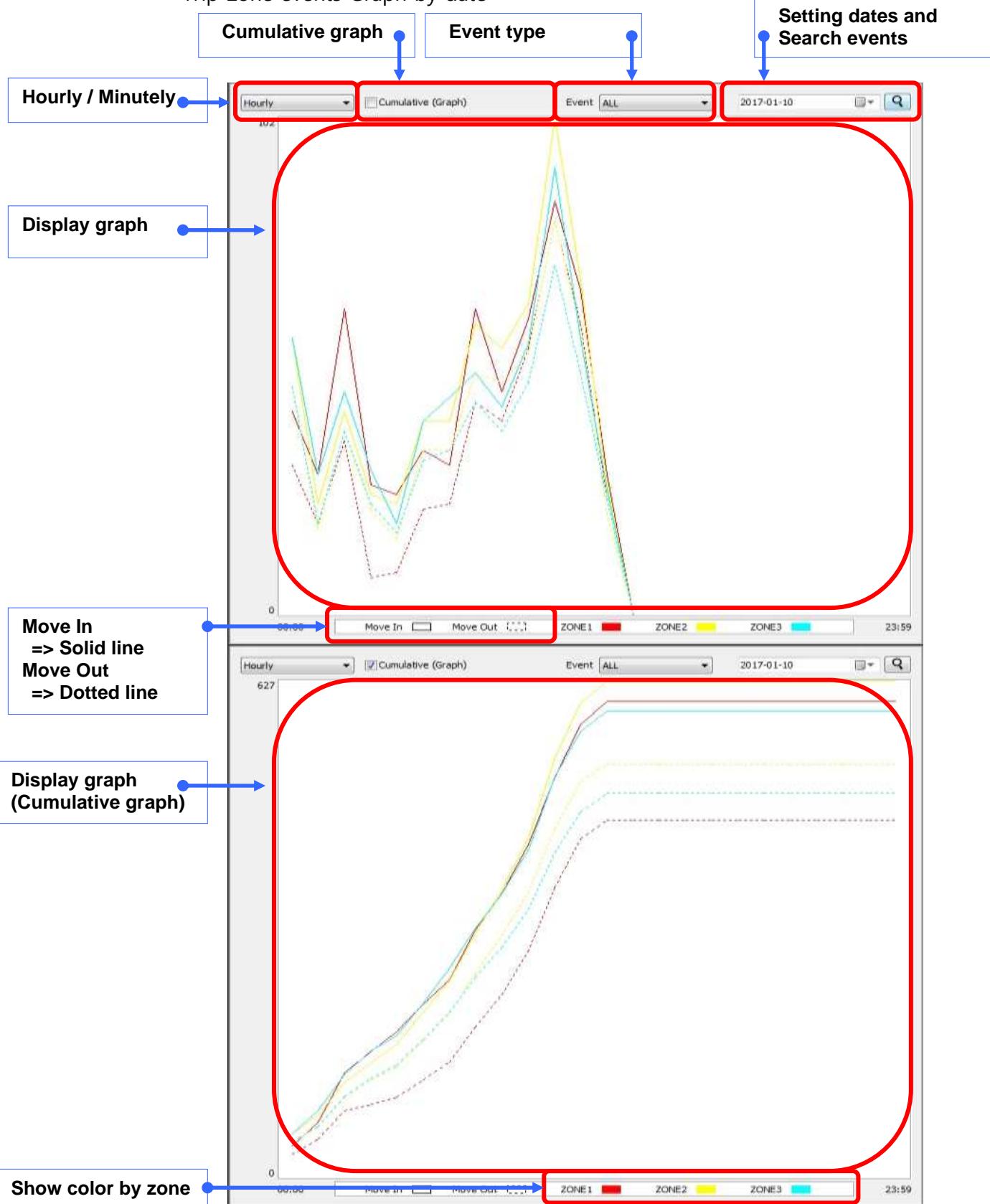
**Display events by zone**

**E1 = Move In, E2 = Move Out, ALL = E1 + E2**

# NETWORK VIDEO RECORDER C/S

## 12.6.3. Graph ( Graph )

Trip-zone events Graph by date



# NETWORK VIDEO RECORDER C/S

## 12.7. People-counting Setup (📁 People-counting Setup )

You can set up People-counting Setup

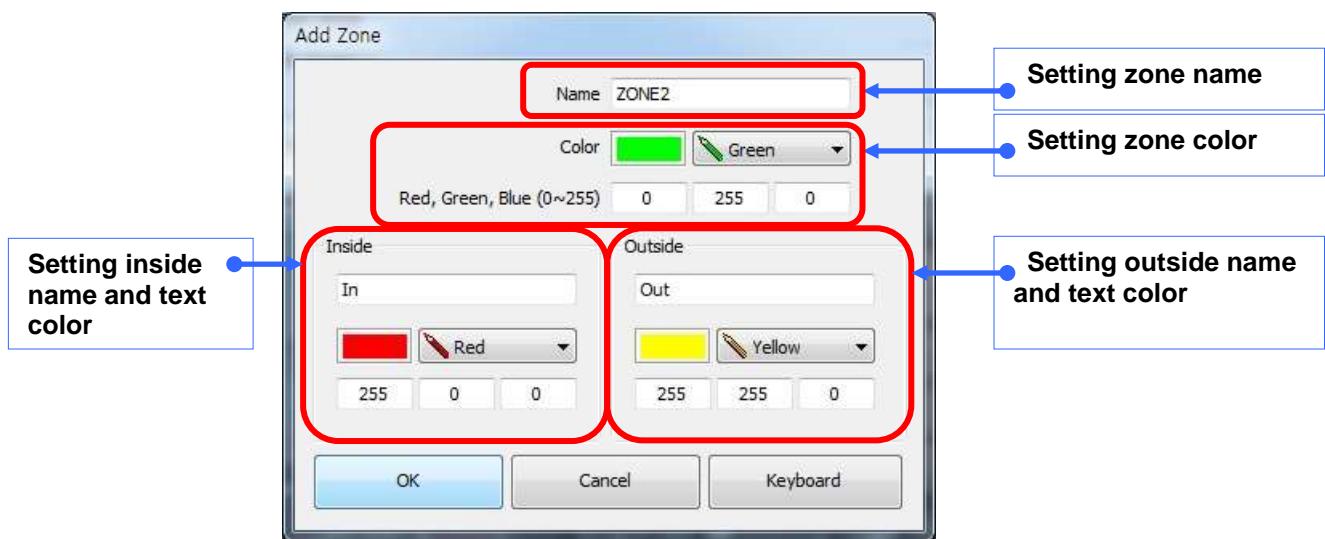


No.	Items	Description
1	Enable Video Analysis	Enable Video Analysis of People-counting
	Counting only people	Counting only people
	Reset Counting	Set the counting number initialization time
2	Track length & Size Filter Setting	Set the Track length & Size Filter
3	Stream Setup	Stream settings for Video Analysis
4	Zone Setting	Enable People-counting zone setting
	Add	Popup add zone window and add zone using mouse clicks
	Delete / Clear All	Delete the selected zone and delete all of zones
	Edit	Popup edit zone window and set the selected zone
5	Zone setting screen	People-counting zone setting screen using mouse clicks

# NETWORK VIDEO RECORDER C/S

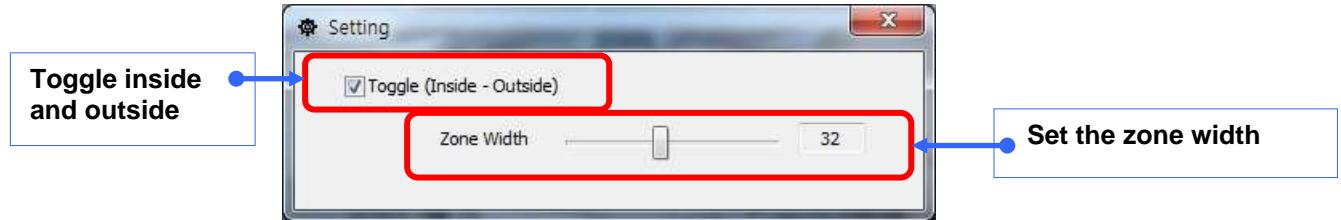
## 12.7.1. Popup window to add zone

Popup window to add zone for People-counting



## 12.7.2. Popup window to edit zone

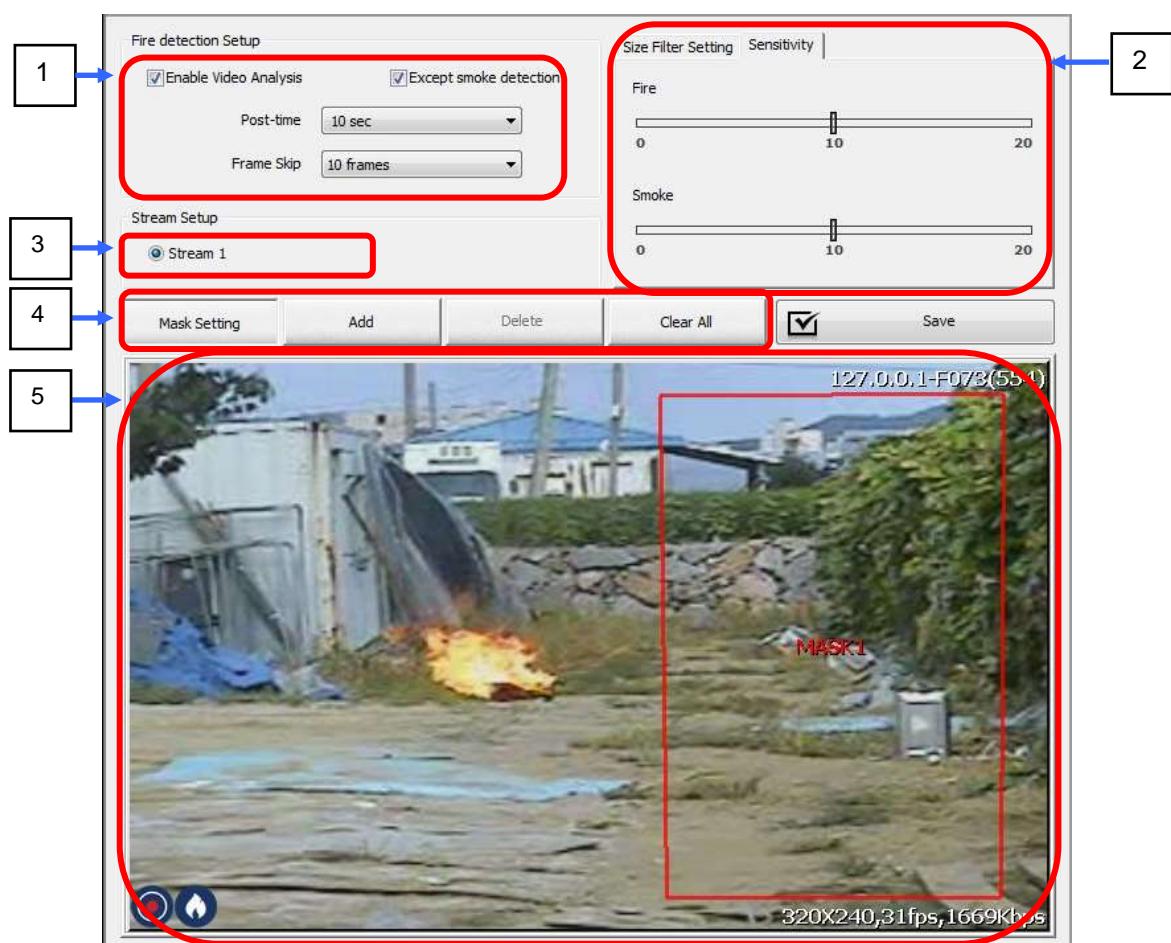
Popup window to edit selected zone for People-counting



# NETWORK VIDEO RECORDER C/S

## 12.8. Fire detection Setup (Fire detection Setup)

You can set up Fire detection Setup

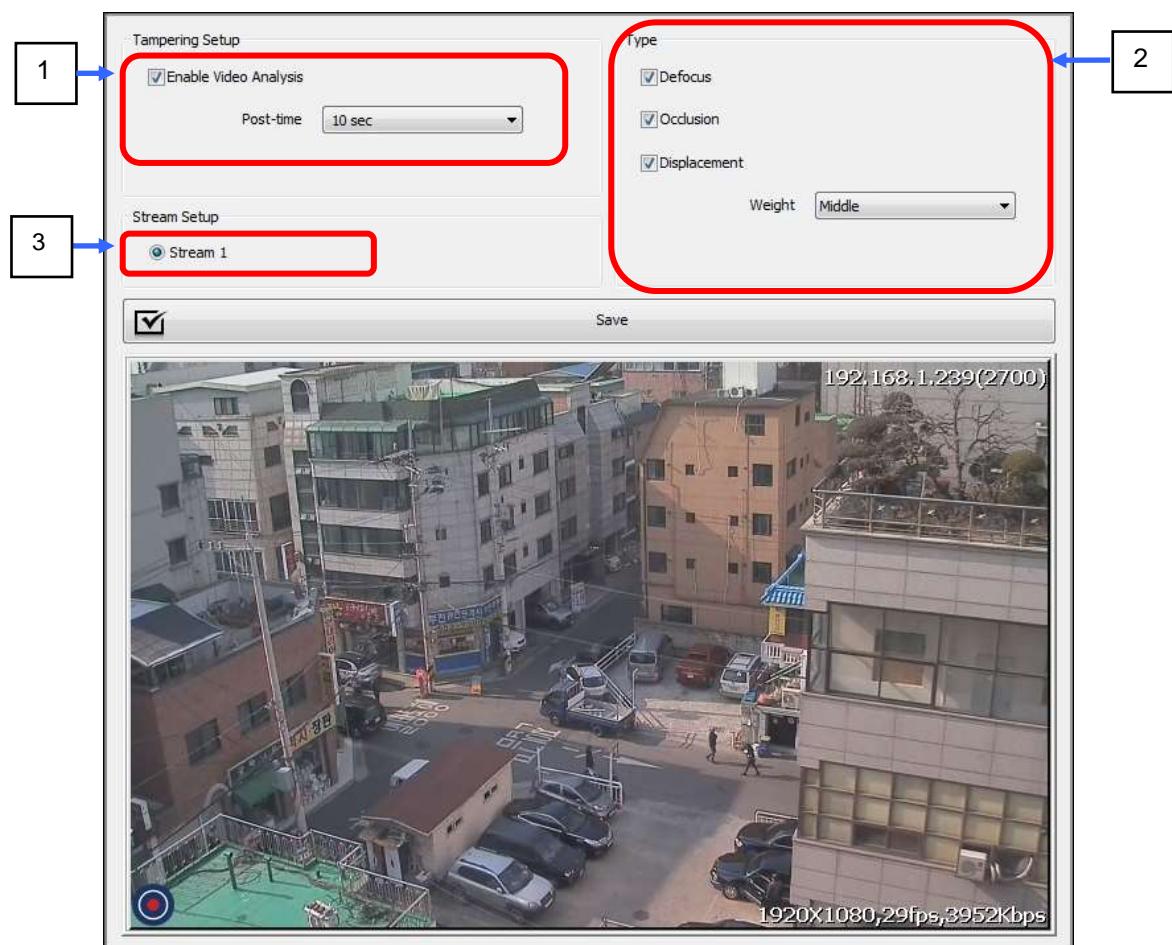


No.	Items	Description
1	Enable Video Analysis	Enable Video Analysis of Fire detection
	Except smoke detection	Except smoke detection
	Post-time	Set the Fire detection event post time
	Frame Skip	Video Analysis at the set frame intervals
2	Size Filter & Sensitivity Setting	Set the Size Filter & Sensitivity
3	Stream Setup	Stream settings for Video Analysis
4	Mask Setting (Mask area excluded from Fire detection video analysis)	Enable Fire detection mask area setting
	Add	Popup add mask area window and add mask area using mouse clicks
	Delete / Clear All	Delete the selected mask area and delete all of mask areas
5	Mask setting screen	Fire detection mask area setting screen using mouse clicks

## NETWORK VIDEO RECORDER C/S

### 12.9. Tampering Setup ( Tampering Setup )

You can set up Tamper detection Setup



No.	Items	Description
1	Enable Video Analysis	Enable Video Analysis of Tamper detection
	Post-time	Set the Tamper detection event post time
2	Type	Set the Tamper detection type (Defocus, Occlusion, Displacement)
3	Stream Setup	Stream settings for Video Analysis

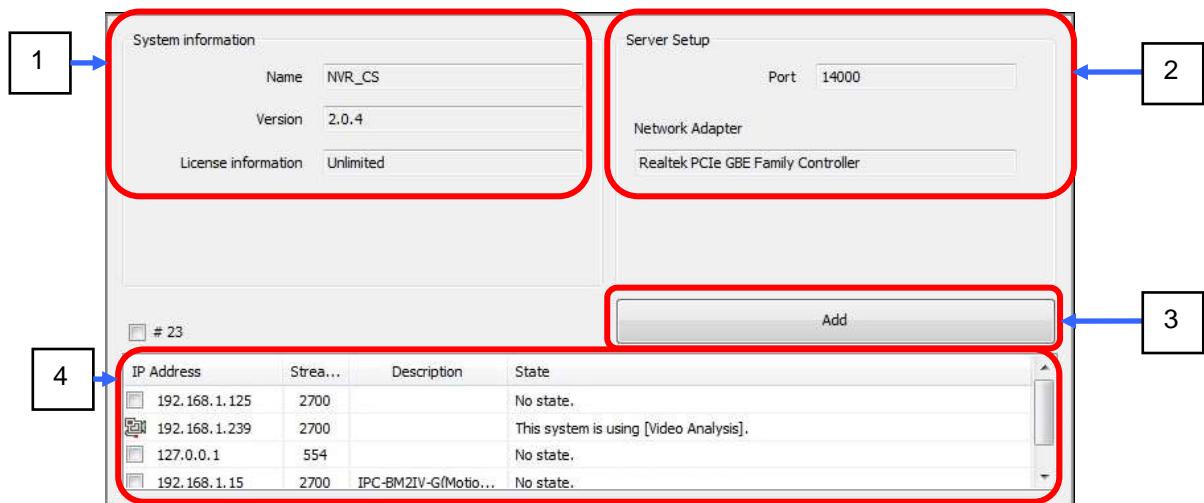
### 12.10. Face masking Setup ( Face masking Setup )

Same as Fire detection Setup

# NETWORK VIDEO RECORDER C/S

## 12.11. NVR Server System ( NVR\_CS )

Shows NVR Server System & Camera information



No.	Items	Description
1	System information	NVR Server System information
2	Server information	NVR Server Port and network adapter information
3	Add	Adds the selected cameras to IVA CS
4	Camera List	Displays the camera list of NVR Server & Video Analysis information

### 12.11.1. NVR Camera ( 192.168.10.7(2700) )

Shows Camera information

