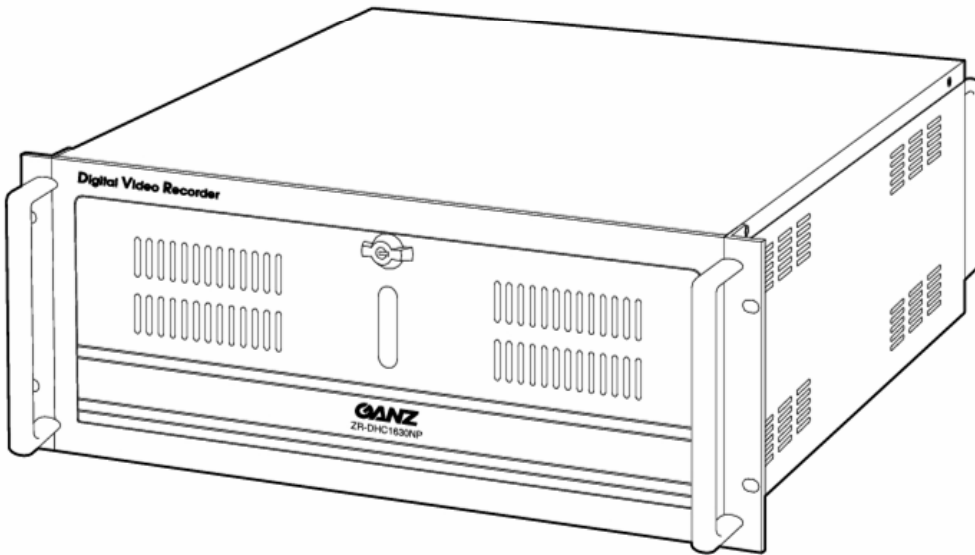


16CH DIGITAL VIDEO RECORDER

ZR-DHC1630NP

GMS MANUAL

Before connecting, operating or adjusting this product,
read this instruction booklet carefully and completely.



GANZ®



Before Setting

What is GMS?

GMS is an integrated security management system that provides a useful solution for central monitoring station operation.

Minimum System Specifications

- ▶CPU : P-4 or higher than Celeron 1.5GHz
- ▶MEMORY : 256MB or more
- ▶VGA CARD : AGP 64MB or more
- ▶HDD : Over 100 MB available space
- ▶O/S : Windows 2000 or Windows XP Professional
- ▶DirectX : V9.0 or higher

Contents

After purchasing the GMS program, make sure that the following contents are included.

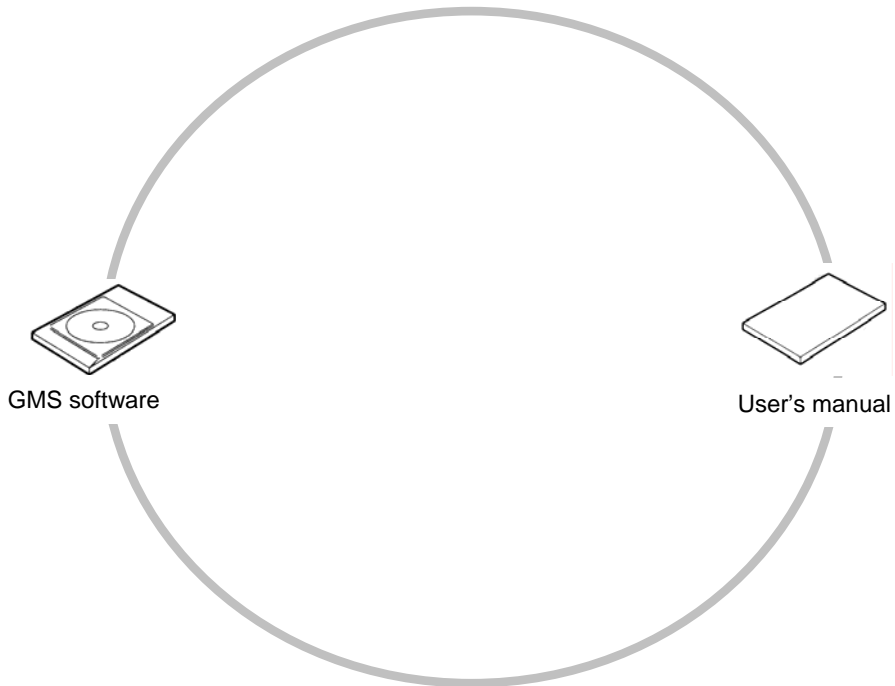


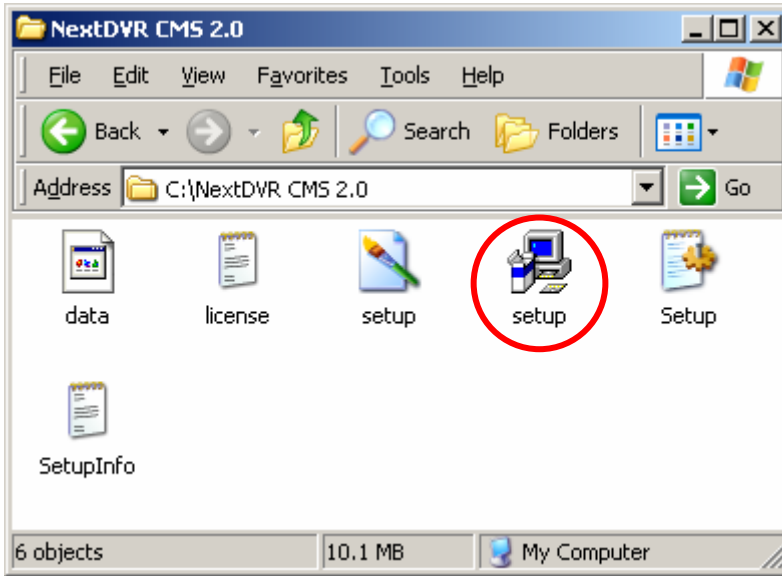
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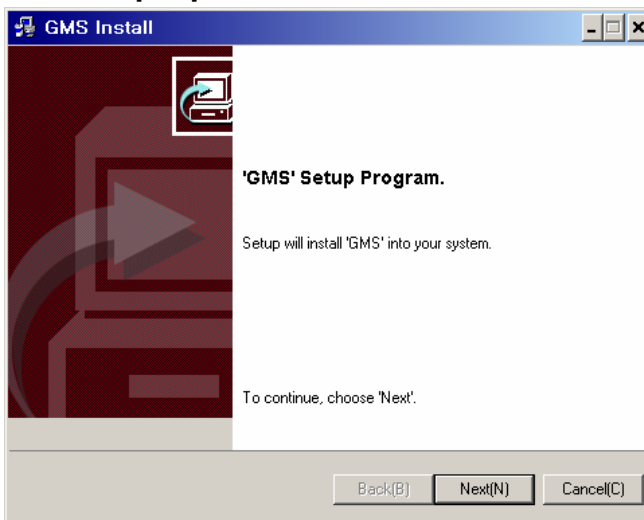
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1. GMS Application Installation

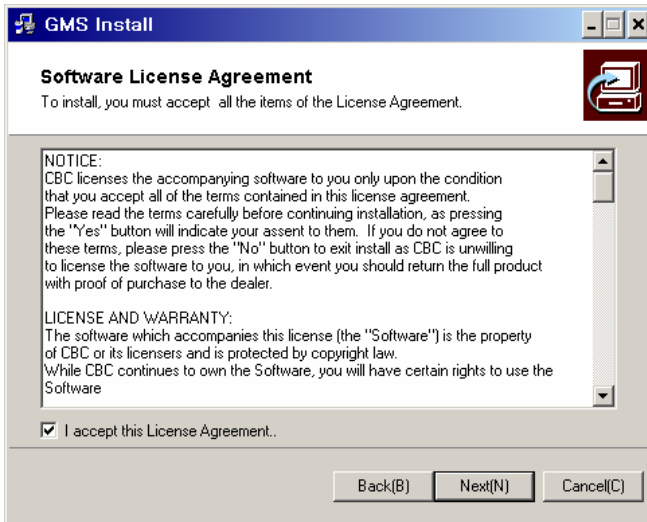
- ① Insert the GMS CD and double click on "setup.exe" to run the setup program.



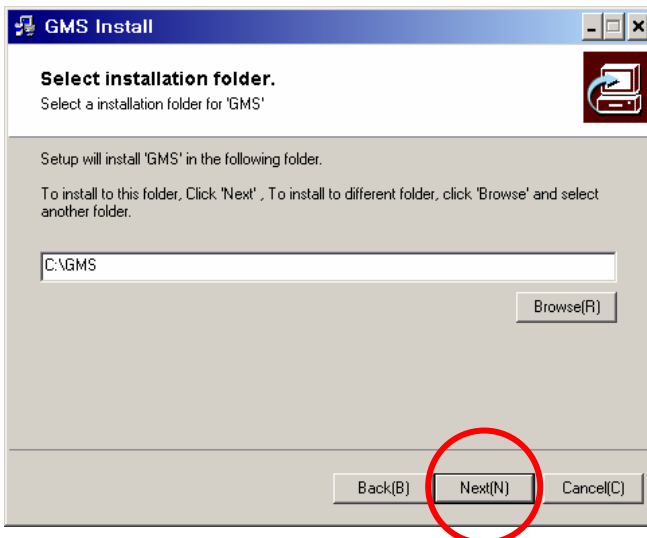
- ② Click on the [Next] button.



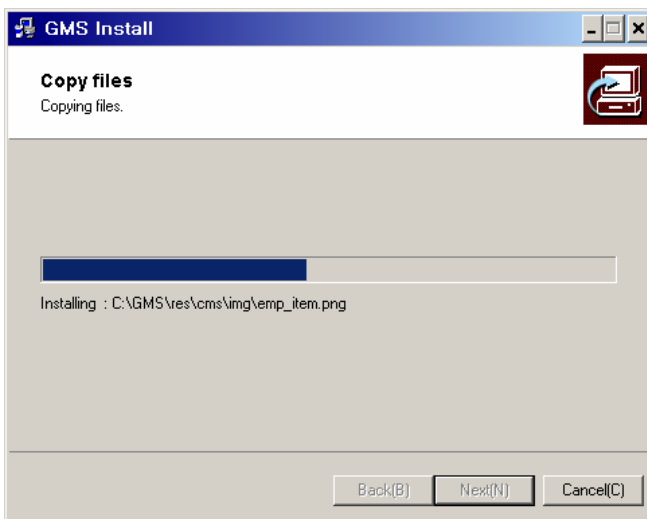
- ③ Check the box "I accept this License Agreement" and click on [Next].



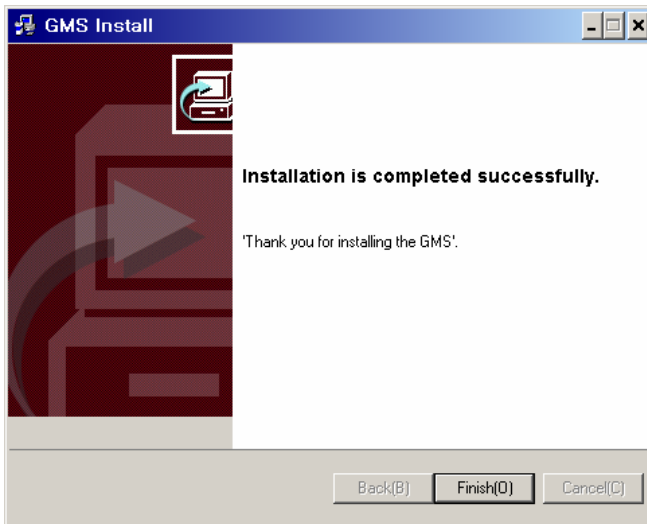
- ④ Enter the path to install the GMS program and click on the [Next] button.



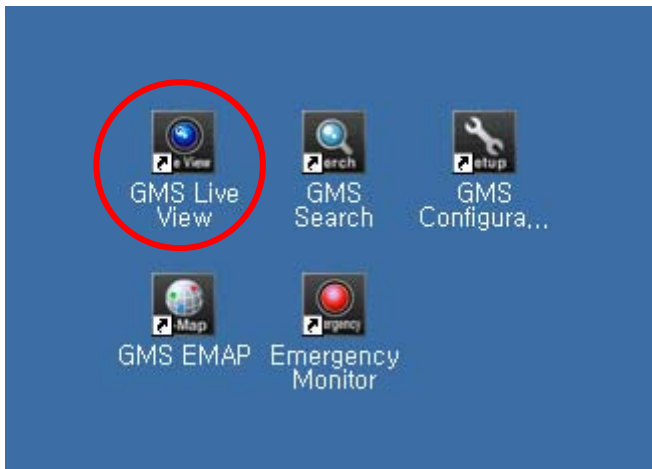
- ⑤ This will start the installation process.



- ⑥ After the GMS Program is completely installed, click on the [Finish] button.

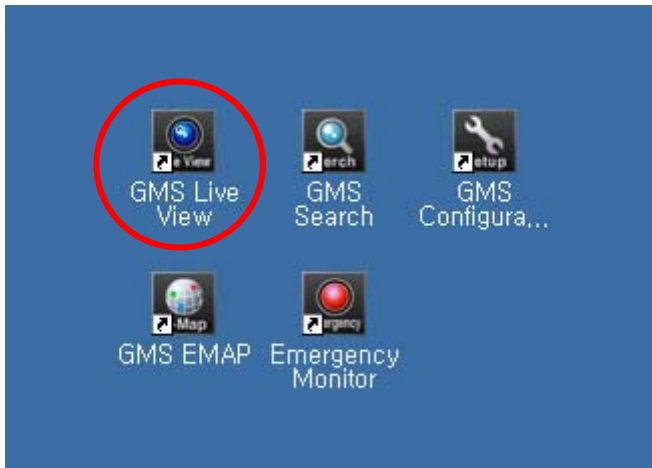


- ⑦ "GMS Live View" will appear on the desktop.



2. GMS Application Execution

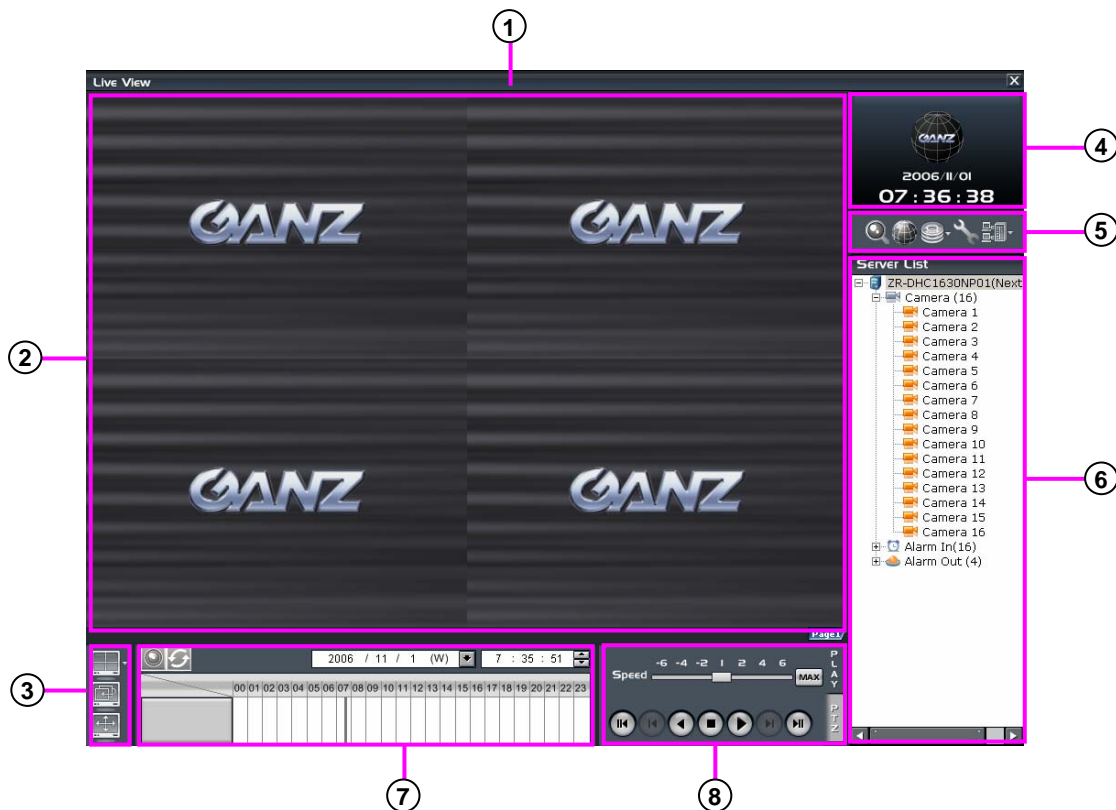
- ① Double click on the “GMS Live View” icon to run the GMS Program.



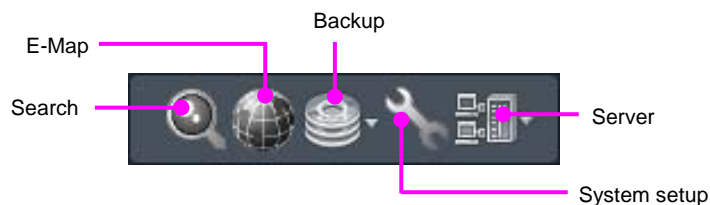
3. GMS Live View

3.1 Initial screen

GMS Live View offers functions such as real time DVR remote viewing and control. The system user interface is illustrated below. Each element is described in the following:



- ① **Title bar** : Displays the program name.
- ② **View panel** : Live and recorded pictures are display here.
- ③ **Display panel** : Multi screen splits, sequence and Full screen display
- ④ **Time display** : Displays the logo and time.
- ⑤ **Menu** : Search, E-map, Backup, System settings, Remote server connection possible.




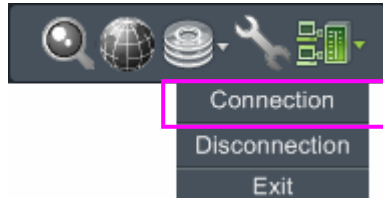
- ⑥ **Server list** : Shows resource information on the camera, alarm-in and alarm-out for each server.
- ⑦ **Timeline panel** : Displays the recording time of the selected channel.
The recorded time is shown in the graph (24-hour clock).
- ⑧ **Play tab/PTZ tab** : The play tab features the normal/reverse play buttons.
The PTZ tab features the PTZ camera control buttons.

3.2 Remote DVR server connection

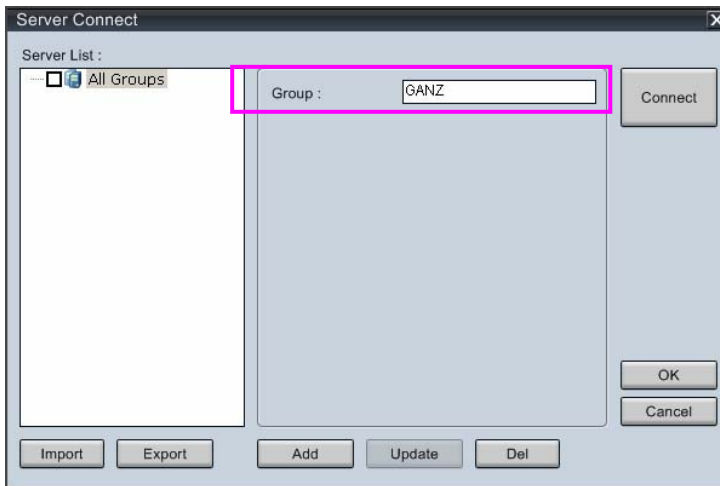
GMS Live View allows you to connect and manage all the DVR servers in the network.

Add DVR server group

1. When you add or connect the remote DVR server, click on the  button. It will then be displayed as shown below.



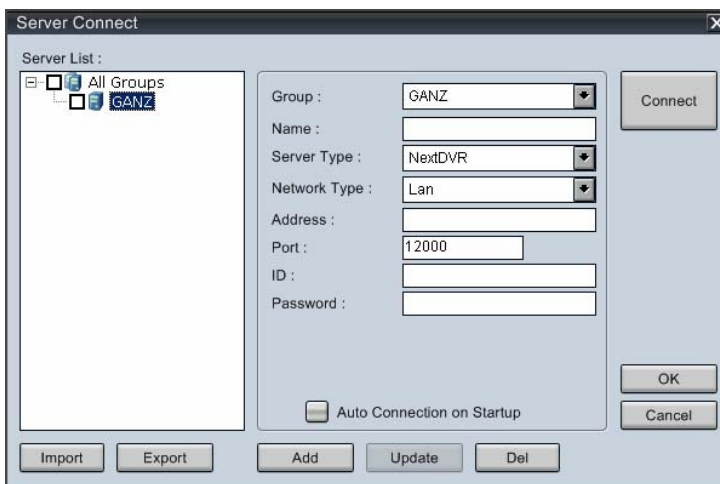
2. Click on the **“Connection”** button to open Server Connect.



3. Enter the group name.

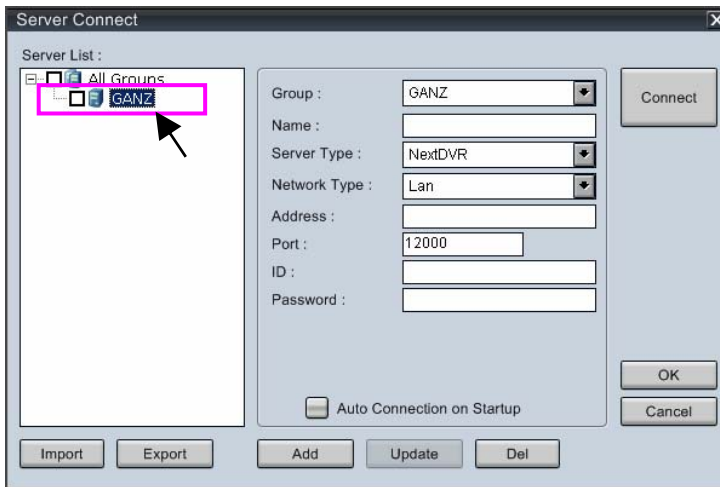


Click on the **“Add”** button to add the group to the server list.

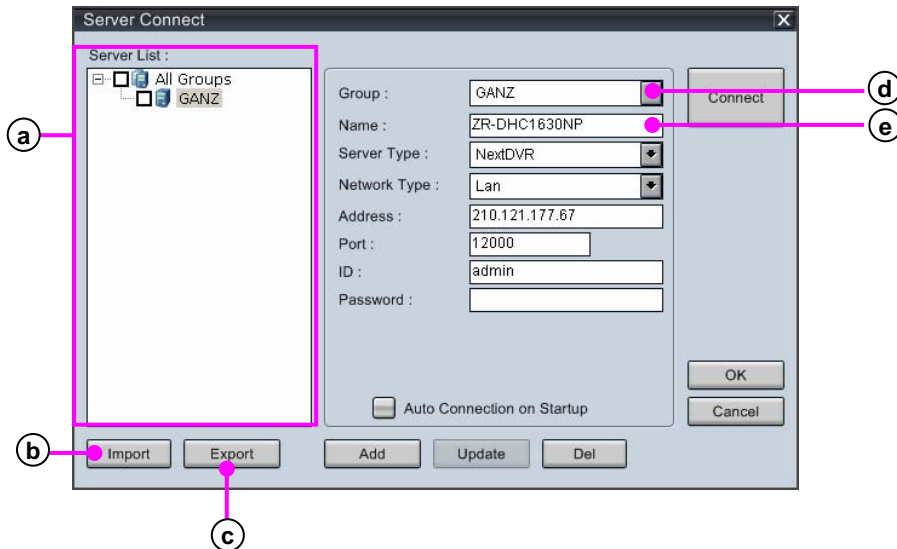


Add DVR remote server

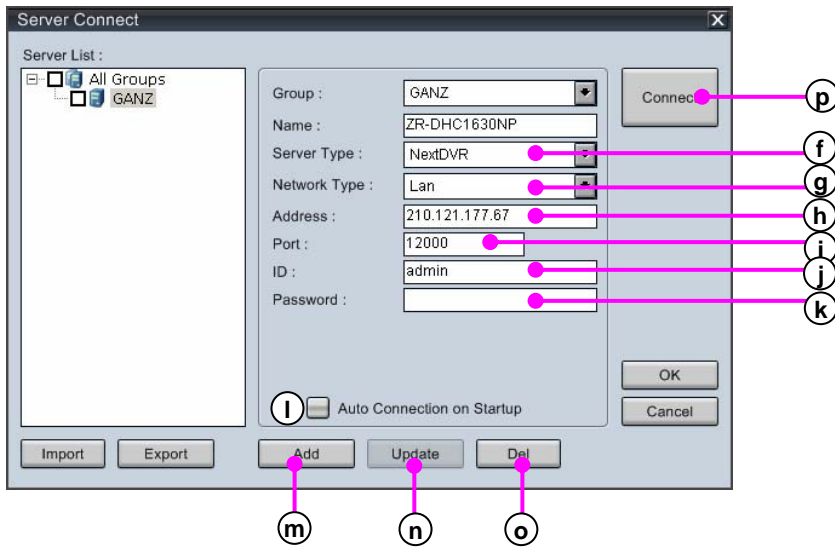
1. Select the group to be registered.



2. Enter the server connect information.

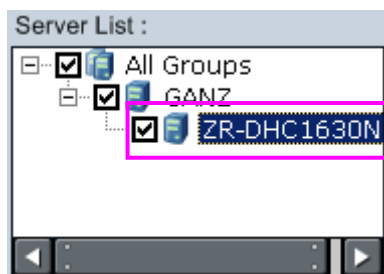


- (a) **Remote DVR server list** : Displays the registered group and server list .
- (b) **Import** : Imports server connect information from the other DVR.
- (c) **Export** : Exports server connect information to another DVR or the outside DVR.
- (d) **Group** : Displays the group name or can be changed to another group.
- (e) **Name** : Displays the server name or a server name can be entered here to add a new connect server.




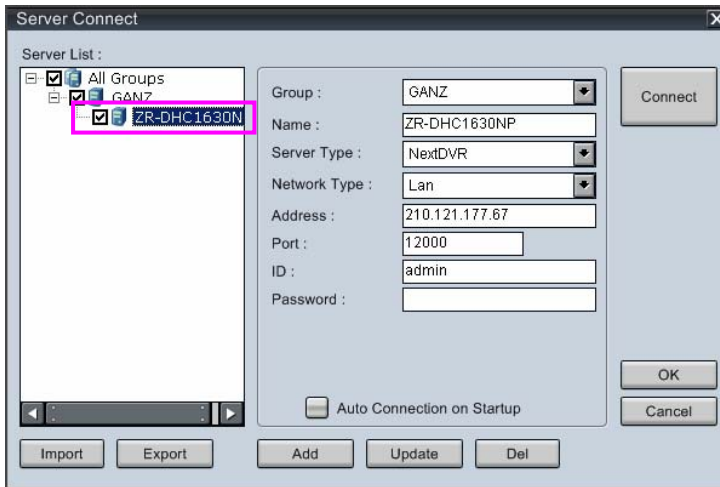
- Ⓕ **Server Type** : Select the server type according to the DVR type.
- Ⓖ **Network Type** : Select the network type.
- Ⓗ **Address** : Enter the IP address or domain name of the DVR server to connect.
- Ⓘ **Port** : Enter the network port number to communicate with the GMS and DVR servers.
- Ⓙ **ID** : Enter the administrator ID of the DVR server.
- Ⓚ **Password** : Enter the password of the DVR server.
- Ⓛ **Auto Connection on Startup** : Check to log-in automatically when GMS is started.
- Ⓜ **Add** : Click on the “Add” button to add a group or server.
- Ⓝ **Update** : Click on the “Update” button to update revised server information.
- Ⓞ **Del** : Click on the “Del” button to delete the server from the server list.
- Ⓟ **Connect** : Click on the “Connect” button to connect to the selected DVR server.

3. Click on the “**Add**” button to add the server to the server list.

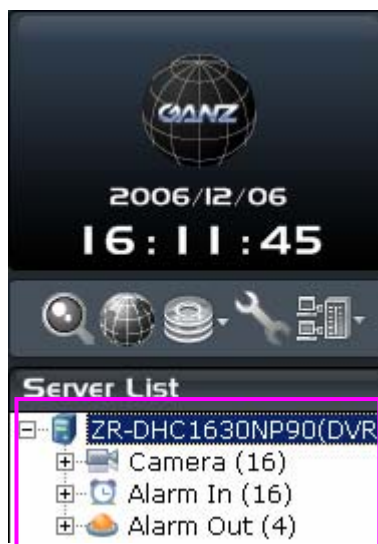


Connect remote DVR server


1. Click on the  and “**Connection**” buttons to display the server connect windows.
2. Select the server in the DVR server list.

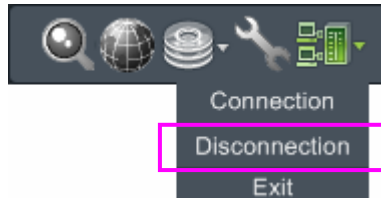


3. Click on the “**Connect**” button to connect. The connected server is shown in the server list.

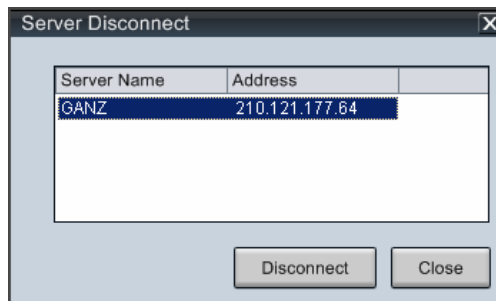


Disconnect remote DVR server

1. Click on the  and “**Disconnection**” buttons to display the disconnect windows.



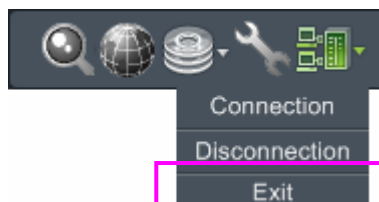
2. Select the DVR server you wish to disconnect.



3. Click on the “**Disconnect**” button to disconnect the DVR server.
4. Click on the “**Close**” button to close the windows.

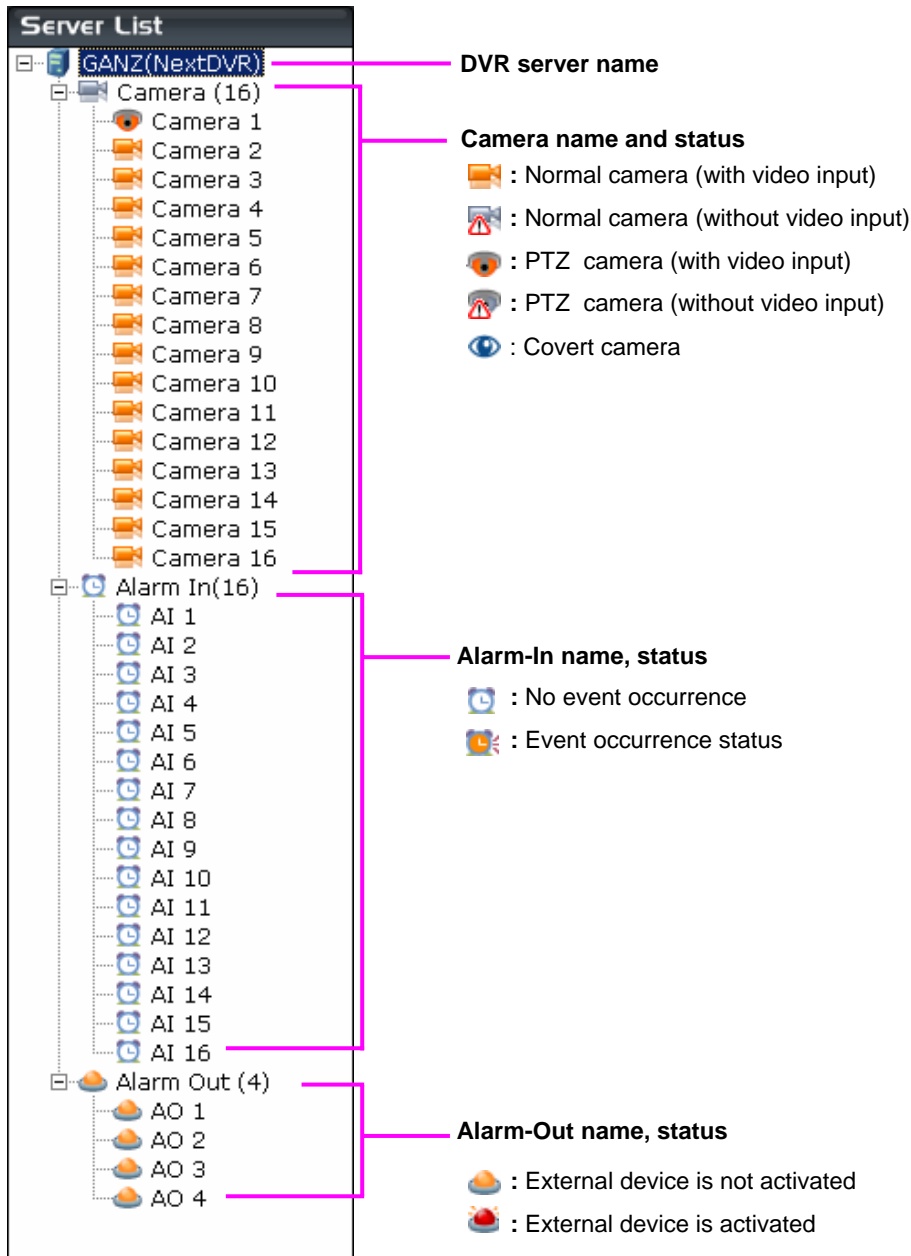
Exit GMS

1. Click on the  and “**Exit**” buttons to exit to Windows.



3.3 Server list tree

The server list tree displays the status of the cameras, alarm-in and alarm-out devices in the form of a tree structure.

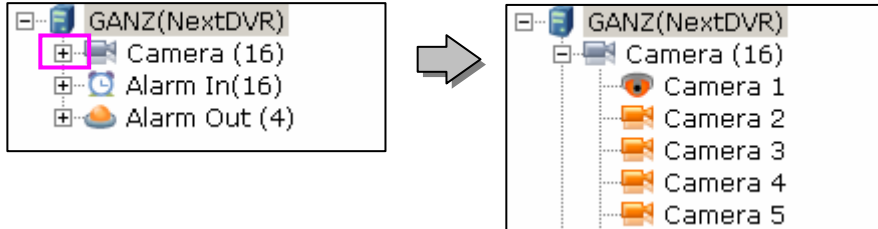


3.4 Display live screen

To watch live pictures, you can set up the cameras on each connected DVR and watch on one or more DVR servers.

Display the live picture on screen

1. To display resource information in the DVR server list, click on '+' to expand the resource information.



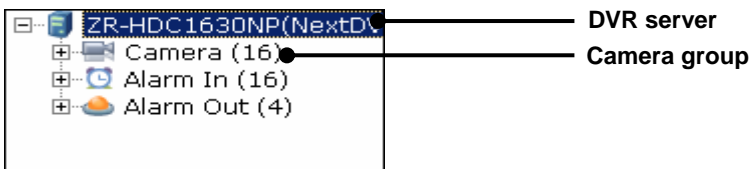
2. If you drag the camera and move to another DVR server in the DVR server list, the camera picture will be shown at another site.



3. Repeat 3 times to set up cameras from one or more DVR servers.

[Note]

- All cameras on DVR servers can be set up on the same view panel. Set up a multiple screen view by dragging a camera group or the DVR server from the server list.

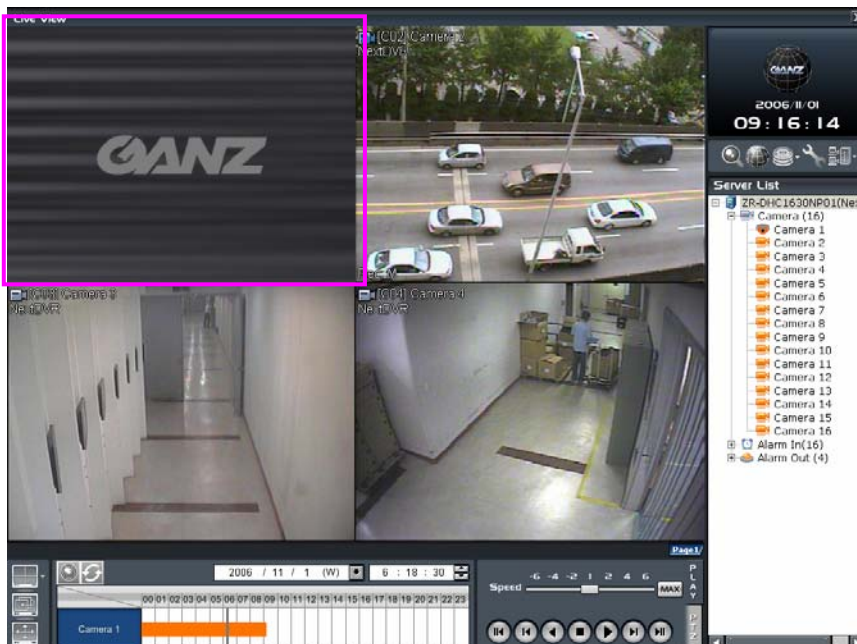


Remove live picture from screen

1. Select the camera picture you wish to remove.
2. Drag it to the DVR server list.



3. The 'GANZ' logo screen will be displayed in place of the removed DVR server. This indicates a vacant area.



3.5 Screen division

GMS Live View makes it possible to watch several camera pictures from multiple DVR at the same time. The display setup can be selected in multiple screen configurations using the screen division button.

Select screen division

1. To divide the view panel, click on the  button. It will be displayed as follows.



2. Click on the button corresponding to the desired screen division to change the display.



Quad



6-way



9-way



10-way



13-way



16-way



25-way



33-way




36-way

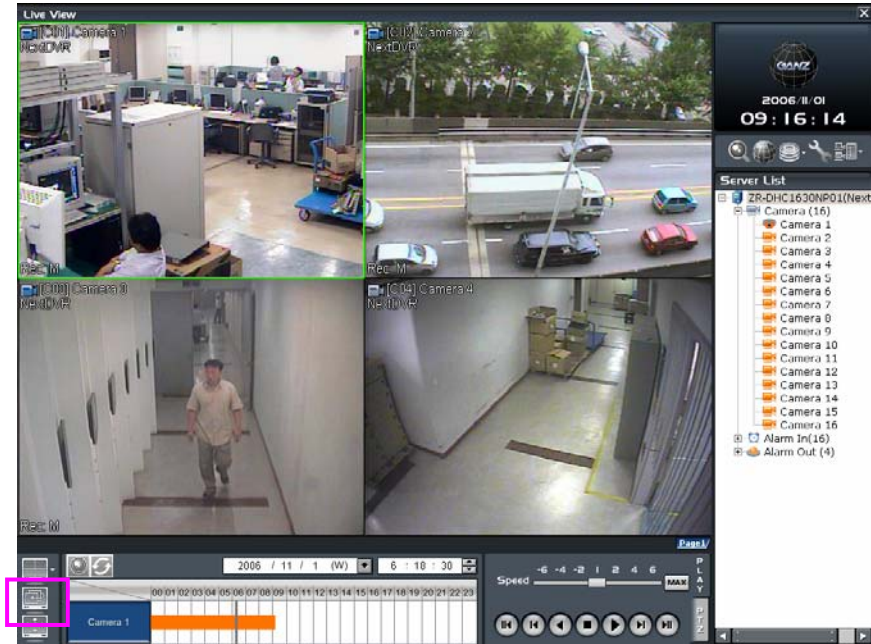
[Note]

- GMS Light version supports a maximum of 36 cameras on each page.

3.6 Full-screen enlargement

Enlarge to full screen on the monitor

1. Click on the  button to enlarge the picture to full screen without a frame on the monitor.



2. Only video can be displayed in full screen.

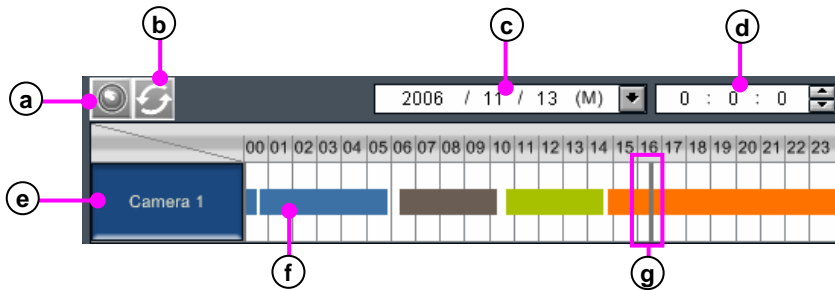


3. Click on the left mouse button to exit the full screen display.

3.7 Timeline panel

The recorded volume of the selected channel is shown here by means of a 24-hour timeline. The color of the graph indicates the type of recording. The recording types are as follows: continuous recording, motion detection recording, alarm recording, pre-alarm recording and ATM/POS recording.

Timeline



- (a) **Live mode conversion** : Convert to watch mode with 1 channel playback.
- (b) **Refresh** : Refresh timeline with the recent recorded time.
- (c) **Date selection** : Select the year, month and day.
- (d) **Time selection** : Set times.
- (e) **Camera** : Display 1 channel you wish to play.
- (f) **Recorded data bar** : Displays the recording type and time recording details as a bar graph.


	Orange	Continuous
	Blue	Motion
	Gray	Object watch
	Green	Alarm-in
	Yellowish Green	Pre rec
	Violet	ATM/POS
	Bluish green	Audio

- (g) **Timeline bar** : Designate time you wish to search.

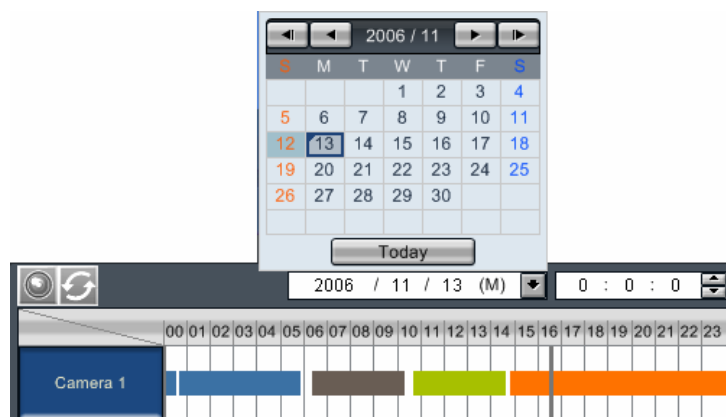
You can use the calendar to go to any specific date. If you select the date on which you wish to search, it will be displayed in a different color. Recording information is shown automatically in the timeline.

Select date for search


1. Click on the  button to display the calendar.

2006 / 6 / 15 (THU) 

2. Select the date on the calendar.



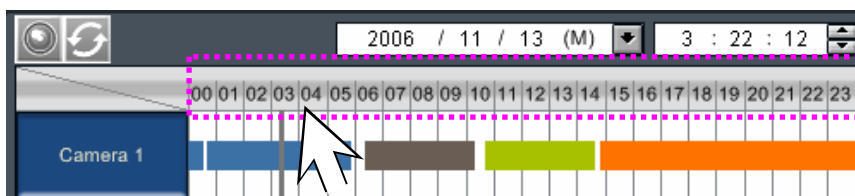
3. Enter the time you wish to view.

13 : 56 : 36 

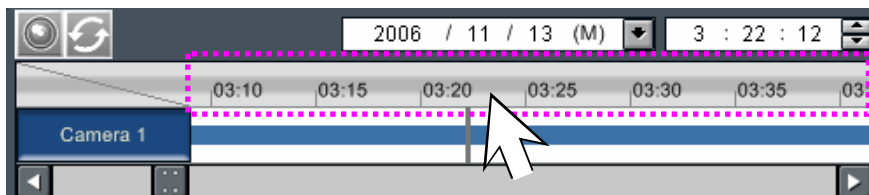
You can enlarge the size of the timeline. Whenever you click the time display section, it will be enlarged to display smaller time intervals for precise time settings.

Enlarge timeline

1. Click on the left mouse button to enlarge the timeline display.

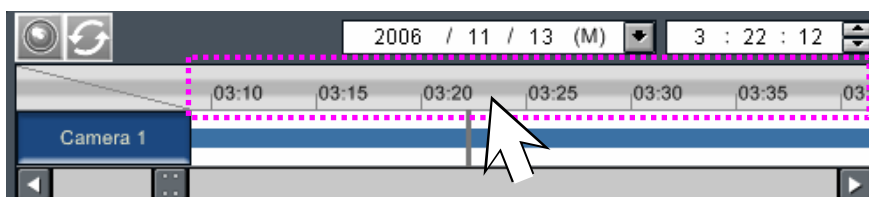


2. The timeline is enlarged each time you click on it.

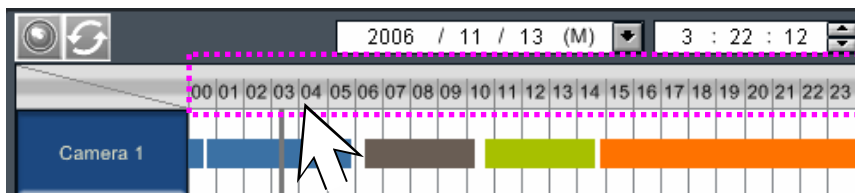


Reduce timeline

1. Click on the right mouse button to reduce the timeline display.



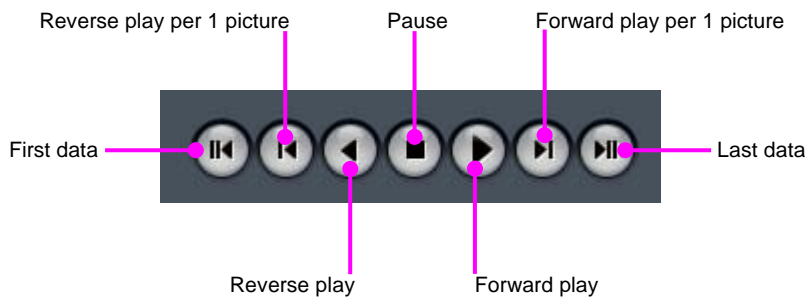
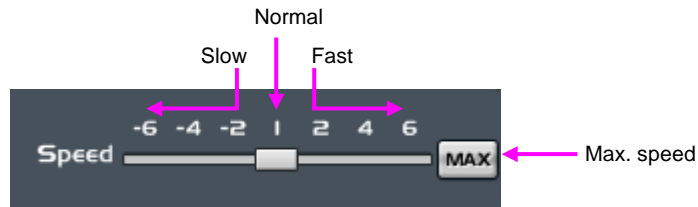
2. The timeline is reduced each time you click on it.



3.8 Playback control

Playback control

Use the Playback controls to move between recordings in forward and reverse play. Also select the playback in frame by frame and first / last image of the day. The speed control function allows for effective monitoring.

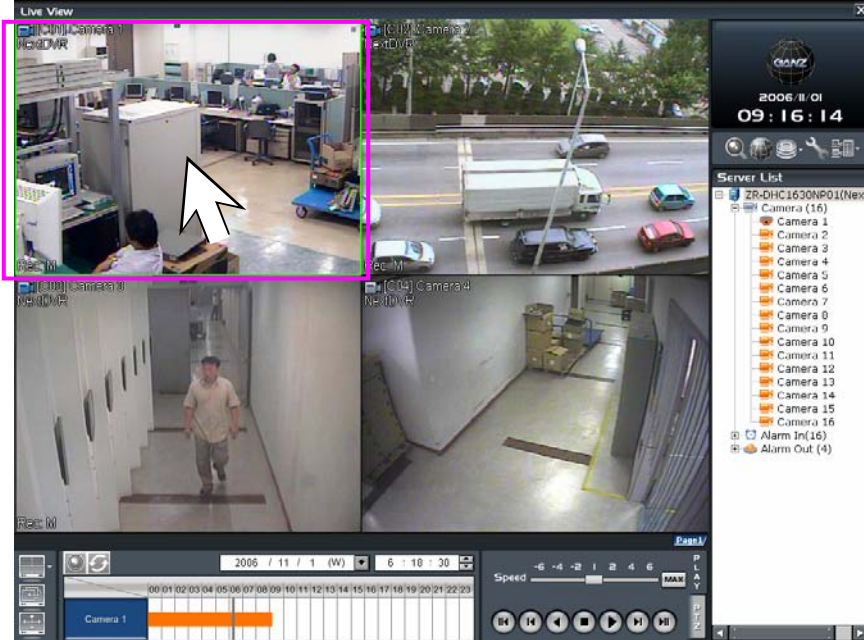


3.9 1 Channel playback

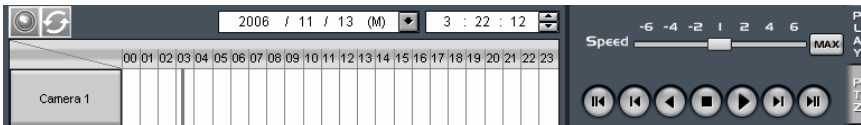
GMS Live View allows for live picture viewing and searching through 1 channel recordings.

1 Channel playback

1. Select the picture that you wish to search and click on it with the mouse.

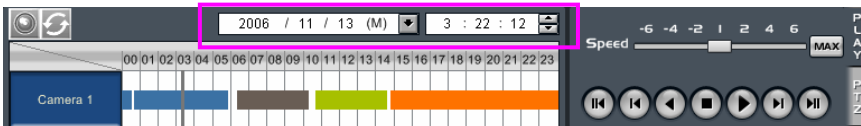



2. The time graph for the selected channel is displayed.




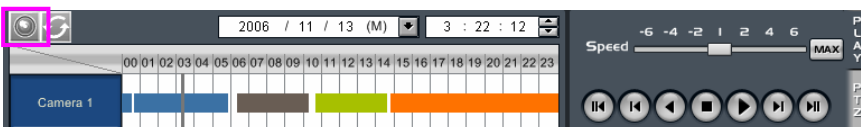
3. Click on "Camera 1".

4. Select the time and date.



5. If you click on the  button, the recorded file will be played in the view panel.

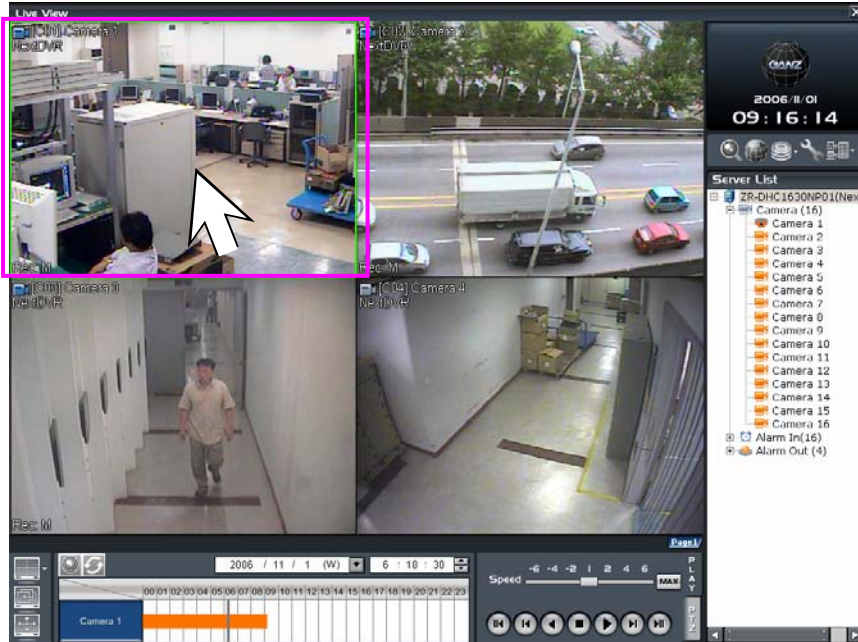
6. To switch to live viewing mode, click on the  button.



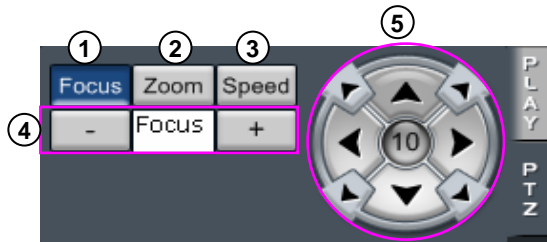
3.10 PTZ control

PTZ camera control

1. Select a picture provided by PTZ.



2. Select the PTZ tab.

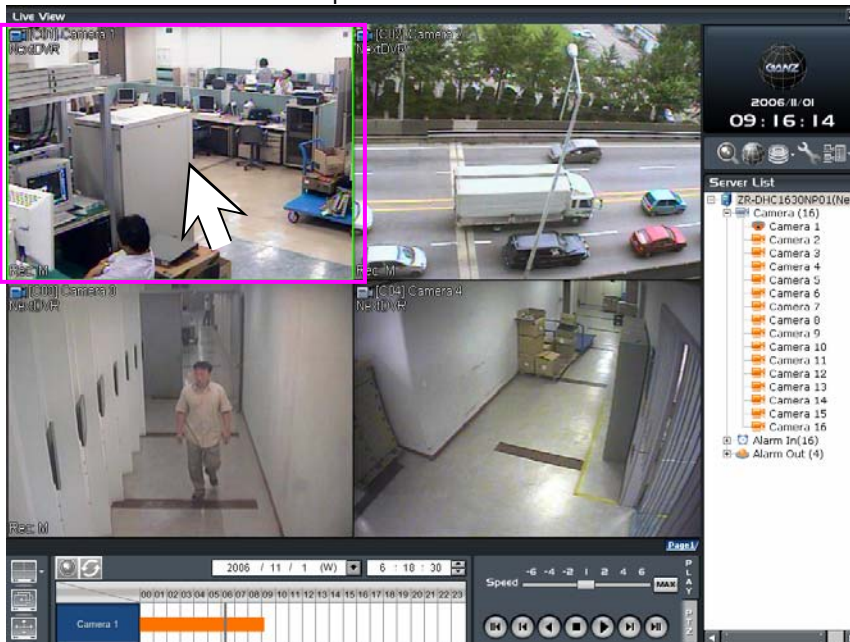



- ① **Focus** : Adjust the lens focus in the PTZ camera. Auto focus cannot be adjusted.
- ② **Zoom** : Adjust ZOOM IN/ ZOOM OUT on the PTZ camera.
- ③ **Speed** : Adjust the speed of the PTZ camera and the speed of focus.
- ④ **Control** : Set up the focus/zoom/speed.
- ⑤ **PTZ Direction Control** : Move the PTZ camera up/down/left/right.

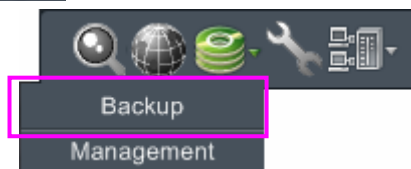
3.11 Backup

How to backup

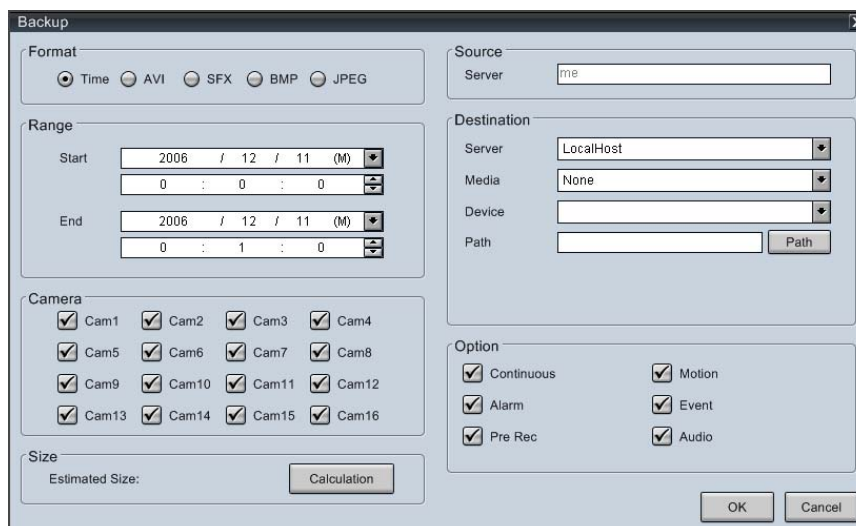
1. Select the channel to backup on screen.



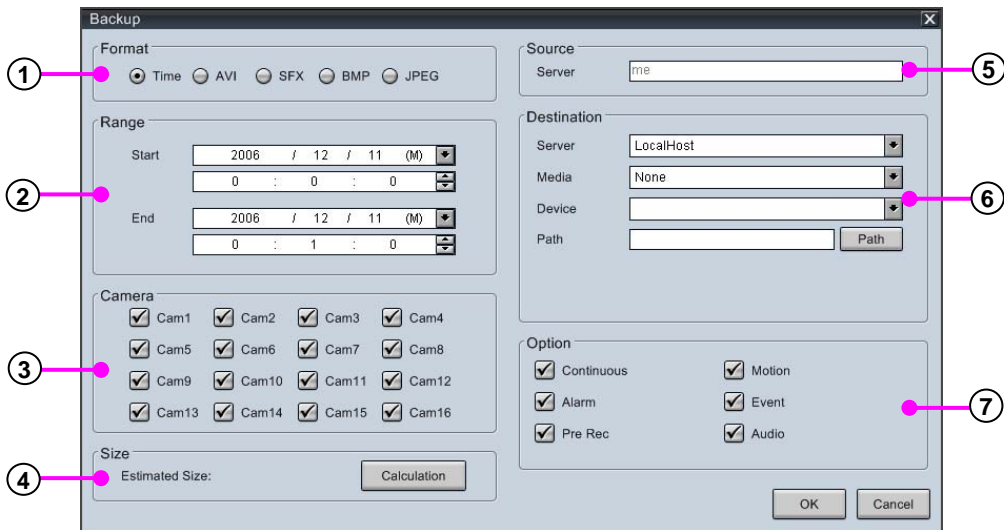
2. Click on the  button to display the following options.



3. Click on the “**Backup**” button to open the backup dialogue window.



4. Enter detailed information for the backup.



① **Backup format** : Select the recording format for the backup.

• Time backup	This function is used to backup video data in GANZ video format, GANZ viewer software is required for playback.
• AVI backup	This is used to backup video data in one of the standard MS Windows Media Player formats.
• SFX backup (Self Extract file)	This is used to backup video data with the player included for playback.
• BMP, JPEG backup	This is used to backup still images in BMP or JPEG format.

② **Range** : Set the backup time.

③ **Camera** : Select the camera or channel to backup. Only one channel can be selected for AVI and SFX formats.

④ **Size** : Click on the “**Calculation**” button to calculate the backup file size.

⑤ **Source** : Displays the transmitted server name.

⑥ **Destination** : Set the backup destination.

⑦ **Option** : The setup options may differ depending on the selected backup format.

• Time backup	Backup event option (Continuous, Motion, Alarm, Event, Pre Rec, Audio)
• AVI backup	Audio backup, codec.
• SFX backup (Self Extract file)	Audio backup
• BMP, JPEG backup	Watermark, watermark check S/W copy, frame information display.


5. Click on the “**OK**” button to start the backup.

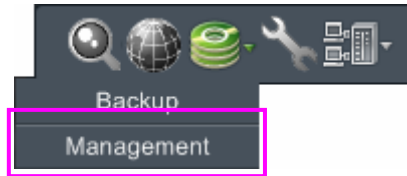
[Note]

• In reference to CD/DVD-R/RW, please refer to “**APPENDIX 1. Supported CD/DVD-RW Drive List**” at the last page of this manual.

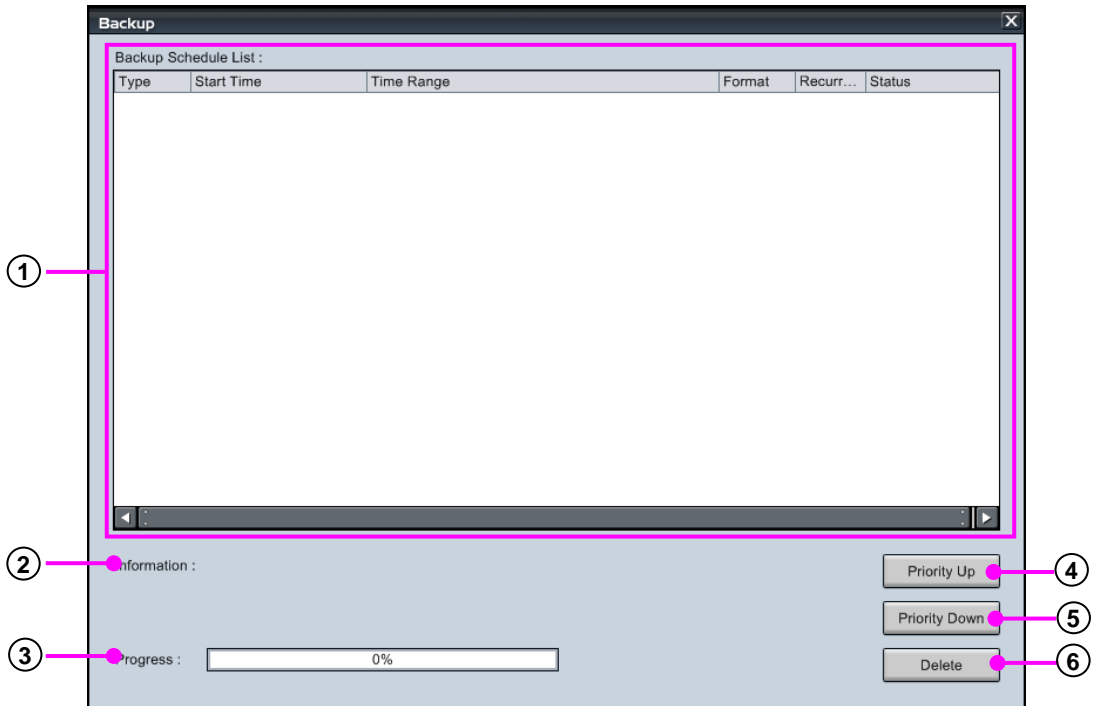
The booked list with the registered backup time, cycle and backup media is displayed.
The backups are created according to the backup schedule.

Manage backup schedule list

1. Click on the  button to run the backup schedule management dialogue.



2. Click on the **"Management"** button to display the backup schedule management dialogue.



① **Backup schedule list** : Displays the backup schedule list.

② **Information** : Displays all backup schedule information.

③ **Progress** : Displays progress in percent.

④ **Priority Up** : Change to high priority.

⑤ **Priority Down** : Change to low priority.


⑥ **Delete** : Delete selected backup schedule from list.

4. GMS Search

4.1 Playback recorded data

GMS Search allows you to watch recorded DVR data in the network via remote control. GMS Search has a user interface as shown below. Each element is described in detail in the following:



- ① **Title bar** : Displays the name of the program playing.
- ② **View panel** : Plays the recorded picture.
- ③ **Split button** : Split view panel.
- ④ **Printer button** : Opens the print page from which the user can select print options to then print screen.
- ⑤ **Timeline panel** : Show the recorded volume on each camera in the form of a graph.
Click on the  button to display the latest recorded timelines.
- ⑥ **Play Panel** : Offers option such as normal/reverse play to play the recorded picture. You can also adjust the play speed and audio volume.
- ⑦ **Time** : Displays the logo and time.
- ⑧ **Menu** : Can be used to access Live View, E-map, Backup, System setup, Remote Server setup.
- ⑨ **Server list** : The DVR server connected to GMS is listed .
- ⑩ **Bookmark** : Register the location of play picture to find it later.
- ⑪ **Display control** : It can repair or enhance the selected picture. You can also change the light and darkness, clearness and restoration settings.
- ⑫ **Calendar** : The calendar is displayed. If a recorded file exists, it is shown in a different color.
- ⑬ **Event** : Lists alarm-in and motion detection events. If you choose an event, the picture in which the event has occurred will be shown.

4.2 Allocate the remote DVR server on screen

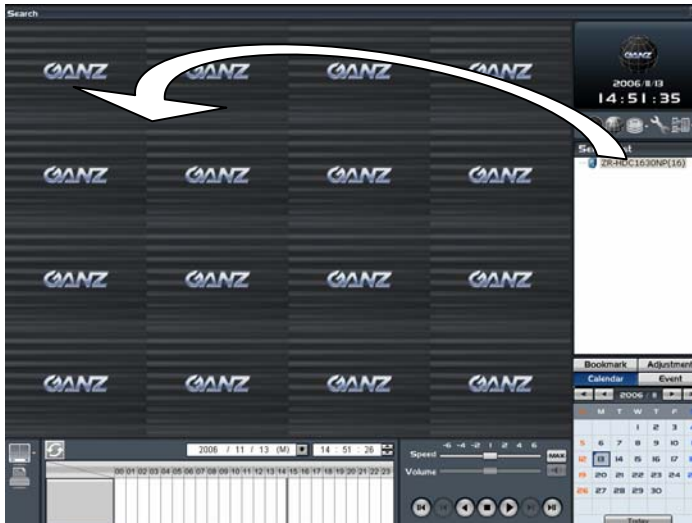
Allocate the DVR server in the network to the view panel to search the DVR server's picture..

Drag and drop to screen

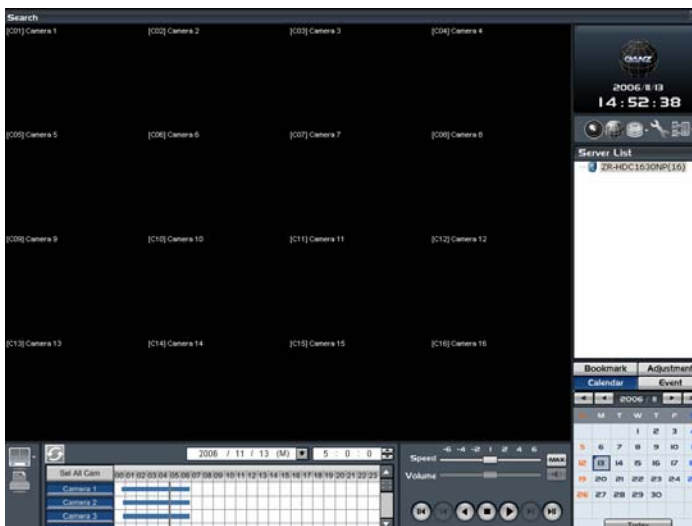
1. Select the DVR server in the DVR server list.



2. Drag and drop the DVR server to the view panel.



3. The recording information of the DVR server will be adapted in GMS Search.

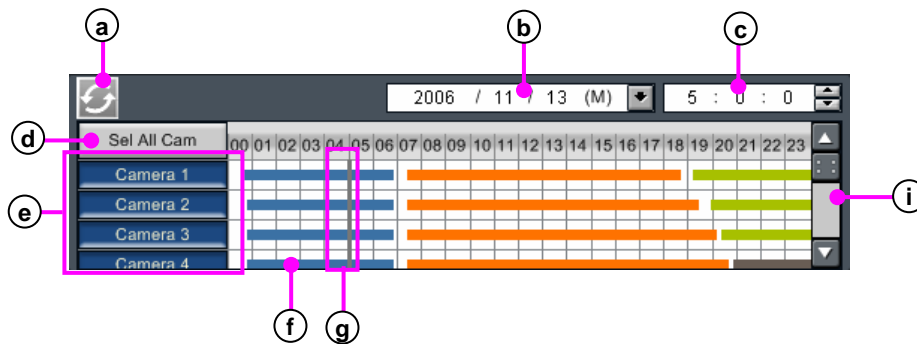


4. Repeat these steps to search another DVR server.

4.3 Timeline panel on playback

The timeline shows the recorded data and times over a 24-hour time period in the form of a graph. The color of the graph indicates the type of recording. The recording types are as follows: Continuous recording, motion recording, pre-alarm recording and ATM/POS recording.

Timeline



- (a) Refresh** : Refresh timeline with latest recorded times.
- (b) Date selection** : Select the year, month and day.
- (c) Time selection** : Set the time.
- (d) All cameras selection** : Select all cameras.
- (e) Camera** : Select the camera you wish to search.
- (f) Recorded data bar** : Displays the recording type and time recording details as a bar graph.


	Orange	Continuous
	Blue	Motion
	Gray	Object watch
	Green	Alarm-In
	Yellowish Green	Pre rec
	Violet	ATM/POS
	Bluish green	Audio

- (g) Timeline bar** : Designate time you wish to search.
- (i) Scroll** : Used to move within the list of cameras.

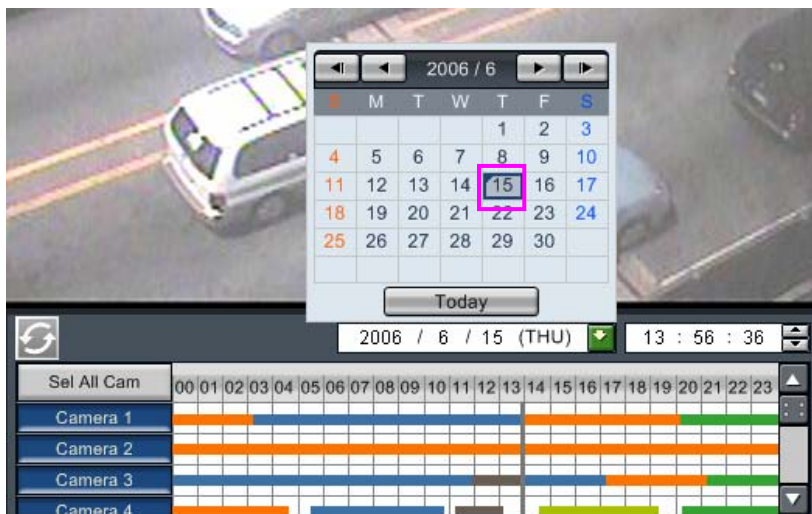
You can move recorded dates using the calendar. Select any date to move it. If data exists for this date, the color of the date will be changed. Recording information will be displayed automatically.

Date selection in timeline


1. Click  to select the searching date.

2006 / 6 / 15 (THU) 

2. Select the date in the calendar.



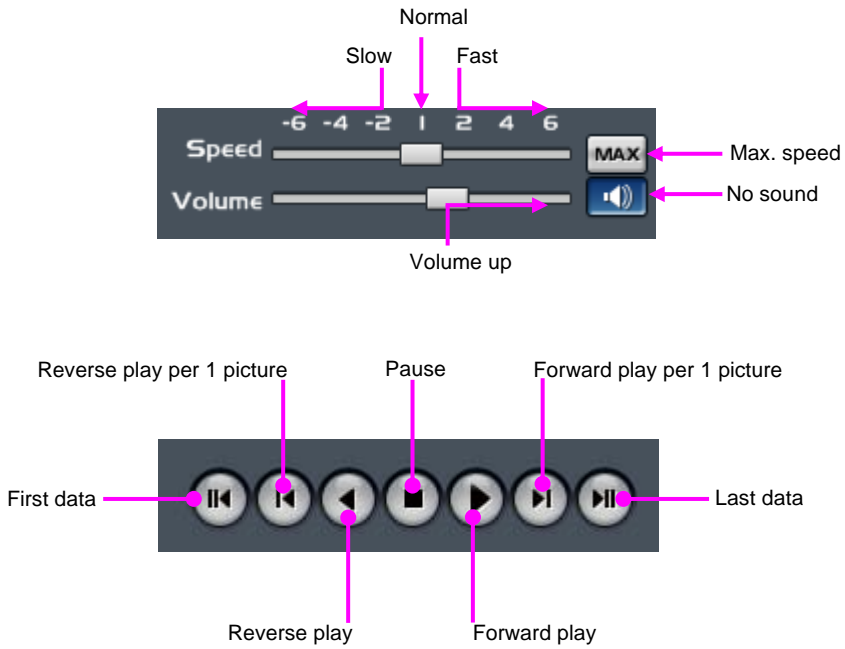
2. Enter the time you wish to search.

13 : 56 : 36 

4.4 Playback control

Playback control

Use the Playback controls to move between recordings in forward and reverse play. Also select the playback in frame by frame and first / last image of the day. The speed control function allows for effective monitoring.



4.5 Playback screen division

Select screen division

1. To divide the view panel, click on the  button. It will be displayed as follows.



2. Click on the button corresponding to the desired screen division to change the display.



Quad



6-way



9-way



10-way



13-way



16-way



25-way



33-way



36-way

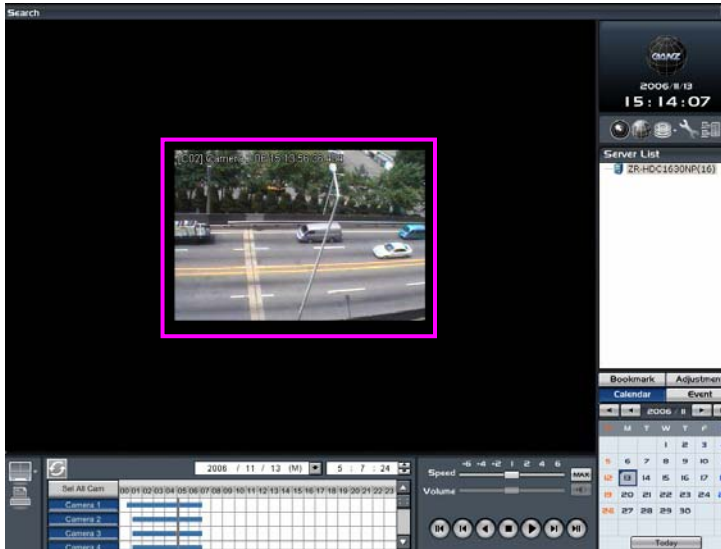
[Note]

- If there are not enough cameras connected for a multiple screen division then those screens will be blank.

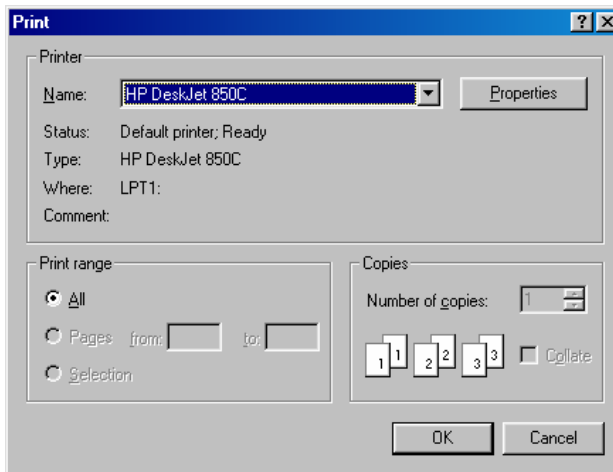
4.6 Printing

Printing

1. Select the searching picture you wish to print.



2. Click  to print.



3. Click "OK" to start printing.

 **[Note]**

Print setup

1. Select Start → Setup→ Printer in Windows.
2. Double-click on [Add a printer] in the Print menu.
3. Click [Next] in the Add printer wizard.
4. Check to see which [Local printer] is available, select, then click [Next].
5. Click [Disk included] or select printer driver.
6. After the driver has been installed, the print setup is completed.

Image printing

1. When printing, select the monitor size.

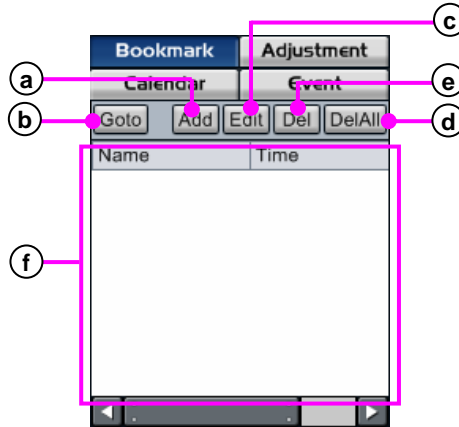
If printing is not successful

1. Check the printer setup in Windows.
2. Check to be sure that the printer and power cables are correctly connected.

4.7 Bookmark

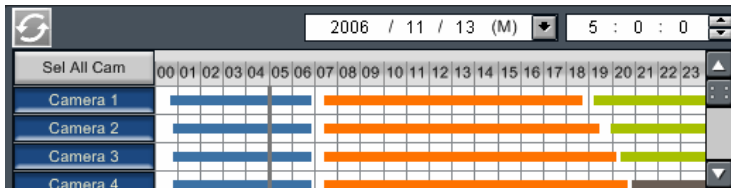
Add bookmark

1. Click on the “**Bookmark**” button.



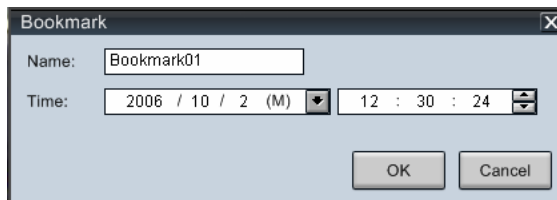
- (a) **Add** : Add the currently displayed frame to the bookmark list.
- (b) **Go to** : Jump to the selected bookmark.
- (c) **Edit** : Edit the name or time of the selected bookmark.
- (d) **Del** : Deletes the selected bookmark.
- (e) **Del All** : Deletes all bookmarks.
- (f) **Bookmark list** : Shows all bookmark list.

2. Select the bookmark time.

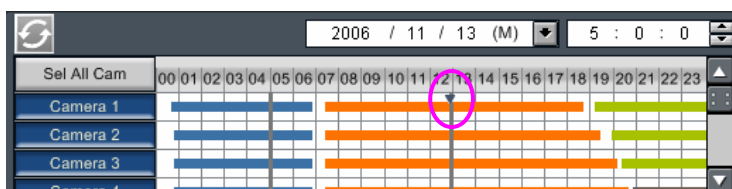


3. Click on the “**Add**” button.

4. Enter the name of the bookmark.

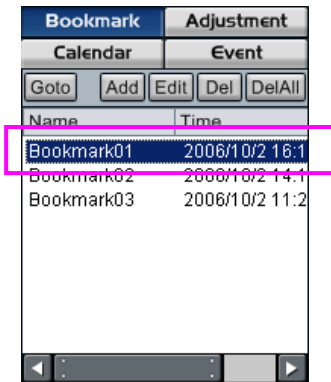


5. Click on the “**OK**” button to add it to the bookmark list.



Delete bookmark

1. Select the item you wish to delete.



- 2.. Click on the “Del” button to delete the bookmark.

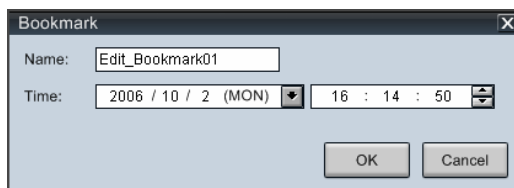
Delete all bookmarks

1. Click on the “Del All” button to delete all of the bookmarks.
2. Click on the “Yes” button to complete the deletion.

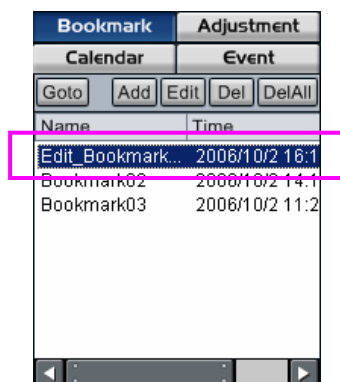


Revise bookmarks

1. Select the item you wish to revise.
2. Click on the “Edit” button.
3. Revise the bookmark information.



4. Click on the “OK” button to view your changes.

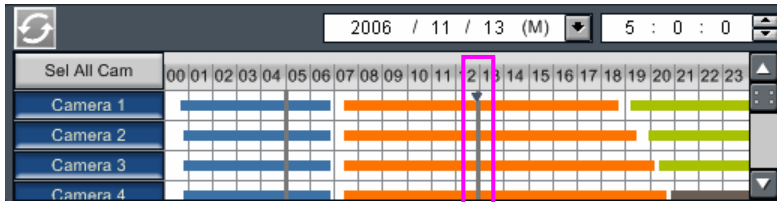


Go to bookmark

1. Select the item you wish to access.

Bookmark		Adjustment		
Calendar		Event		
Goto	Add	Edit	Del	DelAll
Name	Time			
Bookmark 01	2006/6/11 12:33			
Bookmark 02	2006/6/13 19:00			
Bookmark 03	2006/6/13 21:24			

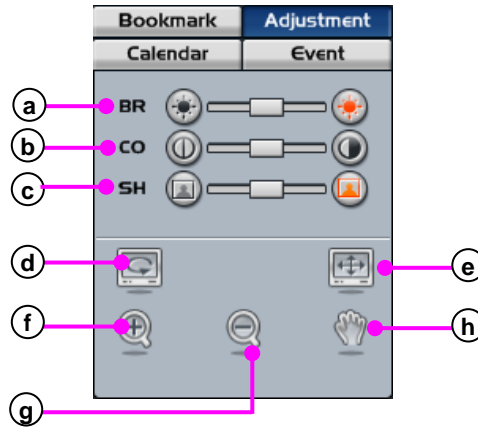
2. Click on the “Goto” button.
3. It will move to the specified bookmark time.



4.8 Picture adjustment

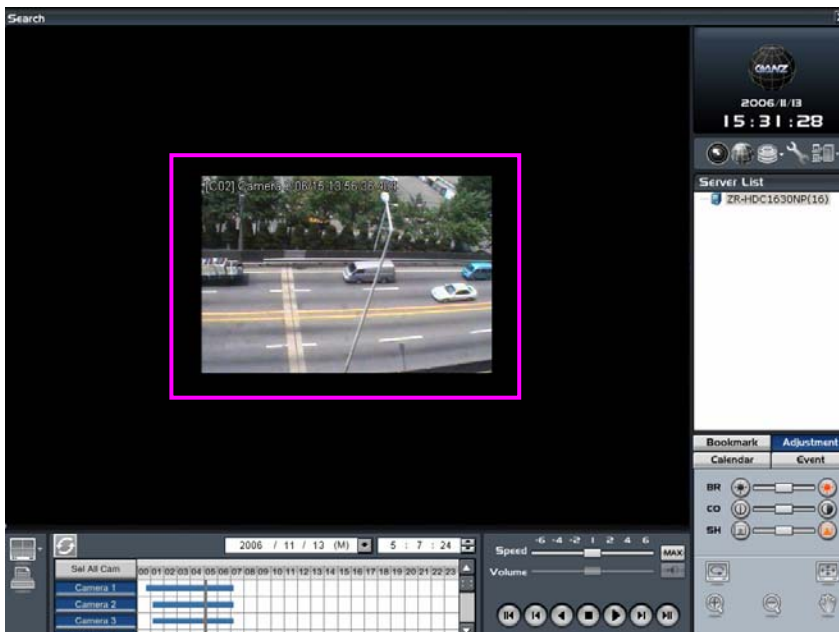
Adjustment

1. Click on the “Adjustment” button to improve the image.

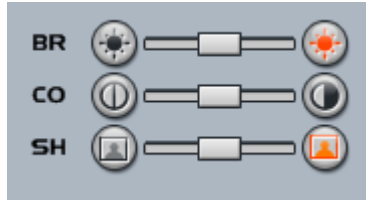


- a** **Brightness** : Adjust the brightness of the displayed image.
- b** **Contrast** : Adjust the contrast of the displayed image.
- c** **Sharpness** : Adjust the sharpness of the displayed image.
- d** **Restore** : Restore the displayed frame's original parameters.
- e** **Screen Zoom** : Enlarge or reduce the displayed image.
- f** **Zoom In** : Enlarge the displayed image.
- g** **Zoom Out** : Reduce the displayed image.
- h** **Move** : Locate one DVR server to another DVR server.

2. Select the channel you wish to adjust.



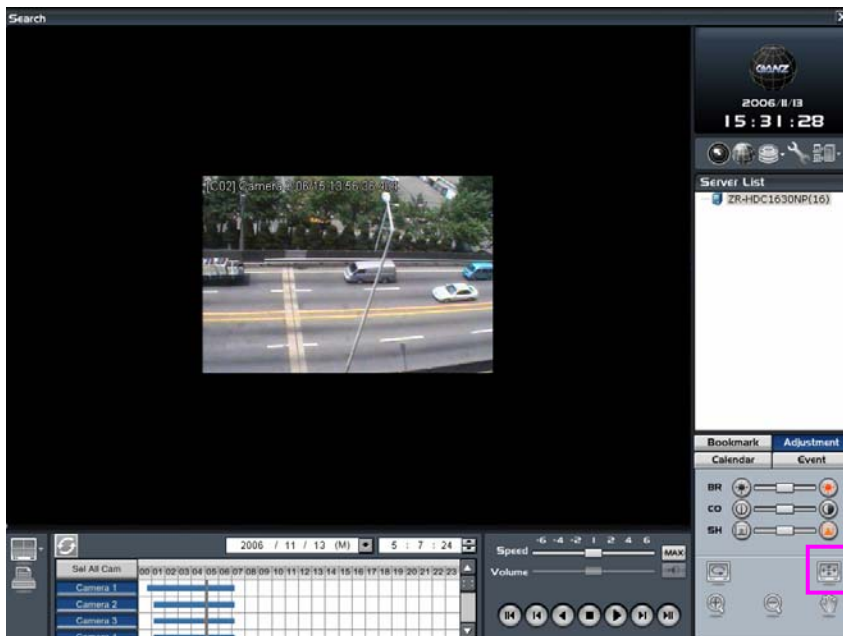
3. Adjust the Brightness/Contrast/Sharpness button.




4. Click on the  button to go to initial setup.



Zoom in/zoom out

1. Select the channel on which you want to zoom in/zoom out.




2. Click on the  button to zoom in/zoom out.



Zoom in

1. Enter search mode and select the adjustment tab.
2. Select the channel you wish to enlarge in search mode .
3. Click on the  button, then the mouse pointer will change to the  icon.
4. Move the mouse pointer to the area within in the image you wish to enlarge .
5. If you left-click the mouse button, it will enlarge designated area.




6. Click on the  button to return to the normal mouse cursor.



Zoom out

1. Once you have zoomed in on an image, you can zoom out again.
2. Click on the  button, then the mouse pointer will change to the  icon.
3. Move the mouse pointer to the area which you want to zoom out from.
4. If you left-click the mouse button, it will then zoom out from the designated area.




5. Click on the  button to return to the normal mouse cursor.

Movement

1. Zoom out on an image.
2. Click on the  button. The mouse pointer will then change to the  symbol.
3. Select the area you wish to move and drag it.



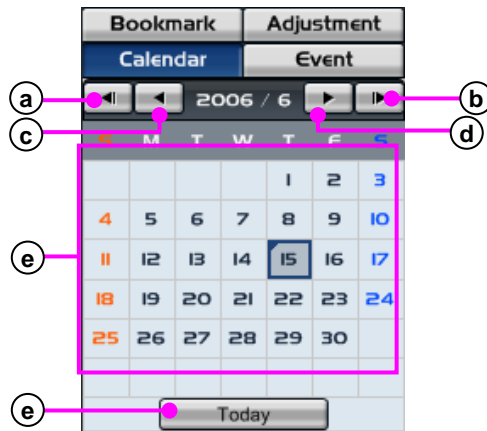
4. If you want to cancel it, click on the  button.

4.9 Calendar

This displays a calendar where you can specify the date of your choice. If recorded volumes exist for this date, the color of the date will be different. Recording information will be displayed in the timeline.

Select date

1. Click on the “Calendar” button to search for the date.

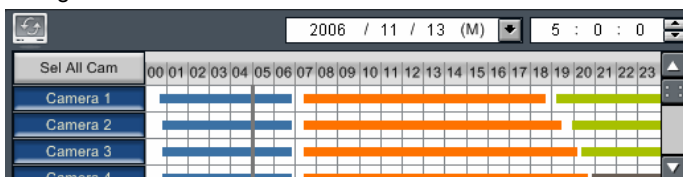


- (a) **Previous year** : Move to previous year.
- (b) **Next year** : Move to next year.
- (c) **Previous month** : Move to previous month.
- (d) **Next month** : Move to next month.
- (e) **Date** : Move to selected date.
- (f) **Today** : Move to today's date.

2. Select the date in the calendar.



3. Recording information about the selected date is marked in the timeline.

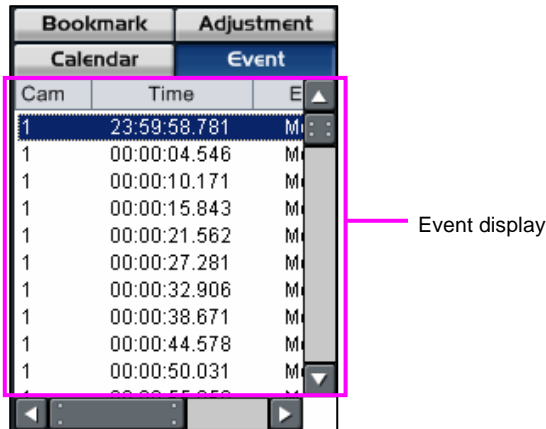


4.10 Event

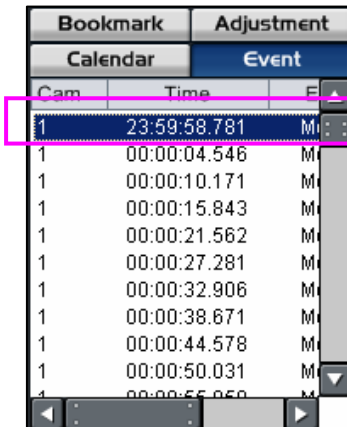
Events which have occurred in the DVR system are displayed. All events triggered due to motion detection or alarms are listed in the event list. Double-click on the event to display the picture you wish to search.

Event

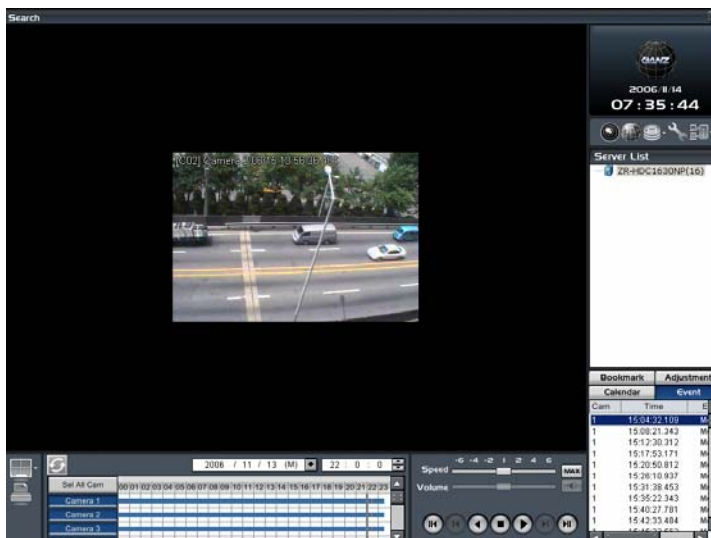
1. Click on the “Event” button to search the event.



2. Double-click on the event you wish to search.



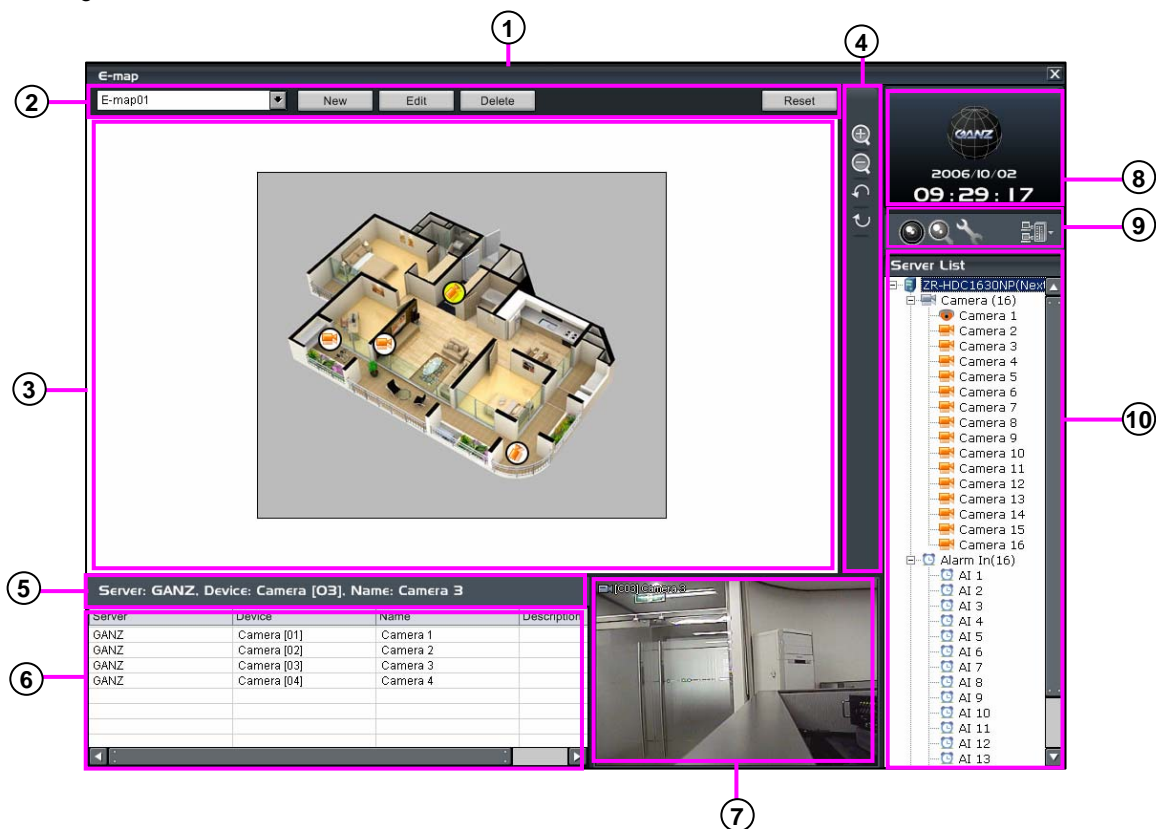
3. The picture of the selected event is displayed.



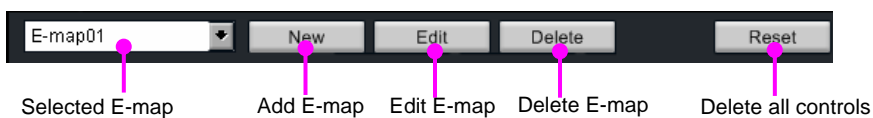
5. GMS E-Map

5.1 Display E-Map

E-map is a computer map of the area with designated locations of installed cameras, alarm-in(s) and alarm-out(s). E-map has a user interface as illustrated below. Each box is described in detail in the following.



- ① **Title bar** : Specifies the name of the running program.
- ② **E-map editing panel** : Register, edit or delete E-map. It can delete all cameras, alarm-in and alarm-out controls in the E-map.



- ③ **View panel** : Indicates the status of cameras and alarm controls in the E-Map.
- ④ **E-map device panel** : You can enlarge/reduce the E-map or clockwise/counter-clockwise control.

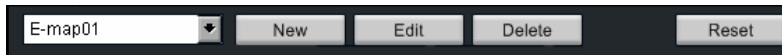


- ⑤ **Device selection panel** : Shows camera control information.
- ⑥ **Device list panel** : Displays information for the listed devices.
- ⑦ **Camera image panel** : Shows the selected camera control image in the E-map.
- ⑧ **Time** : Displays the logo and time.
- ⑨ **Menu** : Access settings for search, backup, system setup and remote server.
- ⑩ **Server list** : Resource information for cameras, alarm-ins and alarm-outs is shown in order.

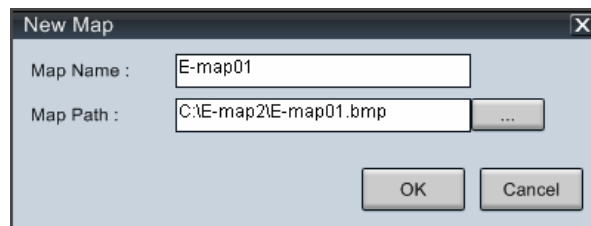
5.2 Add E-map

Add E-map

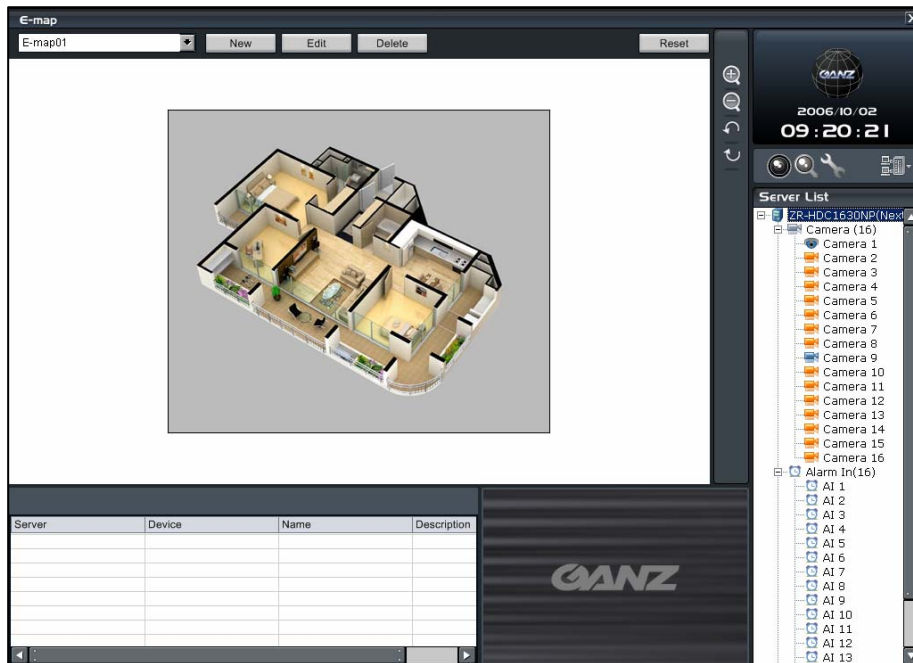
1. Click on the “**New**” button to add an E-Map.



2. Enter the map name and map path.



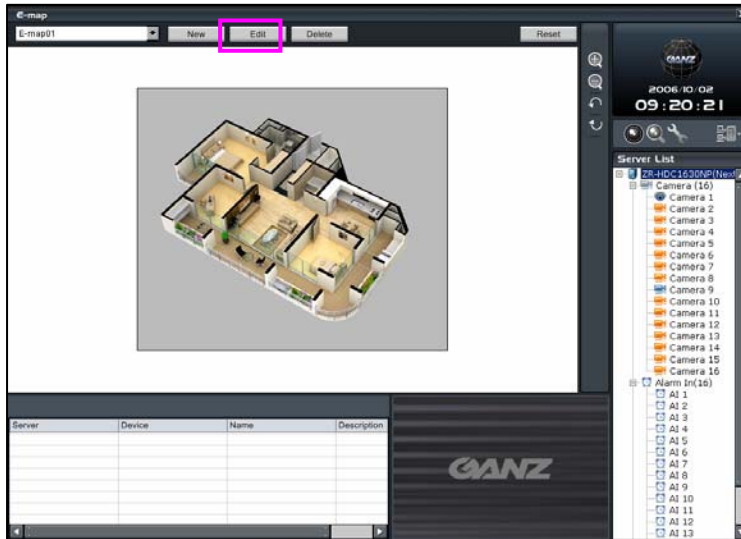
3. Click on the “**OK**” button. The registered display will be shown.



5.3 Edit E-map

Edit E-map

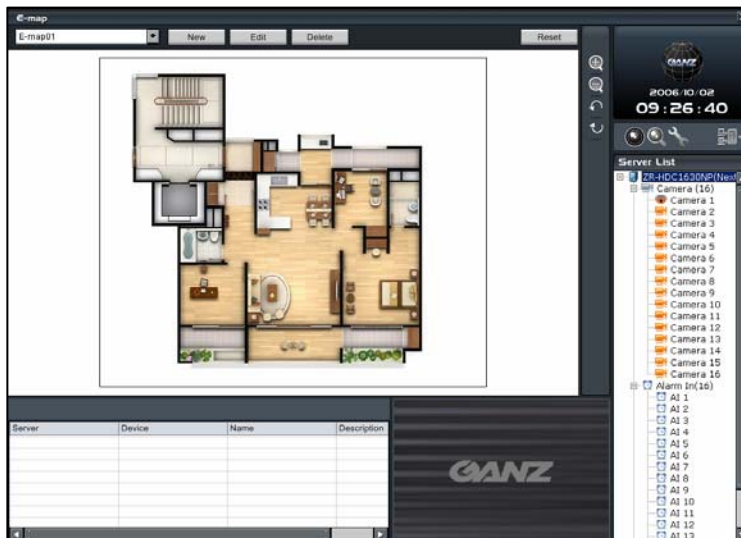
1. Click on the “**Edit**” button to add an E-map image.



2. Enter the map name and map path.



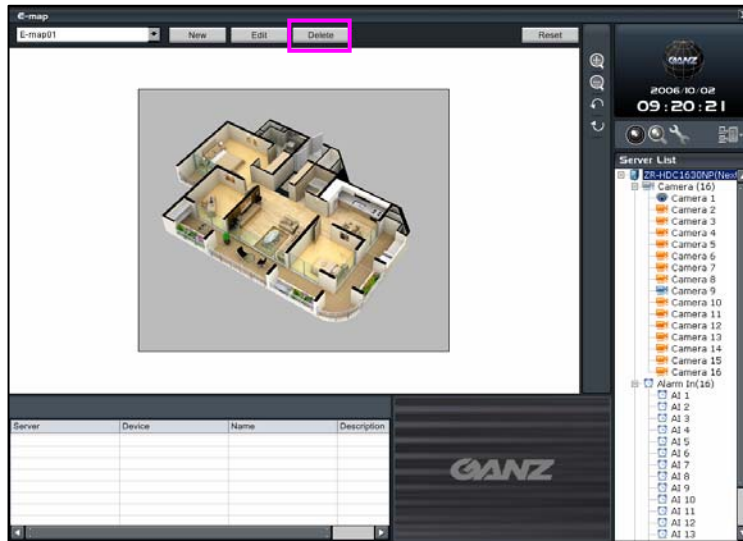
3. Click on the “**OK**” button. The edited display will then be shown.



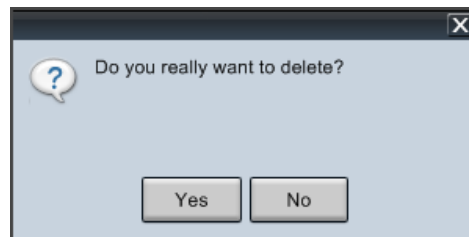
5.4 Delete E-map

Delete E-map

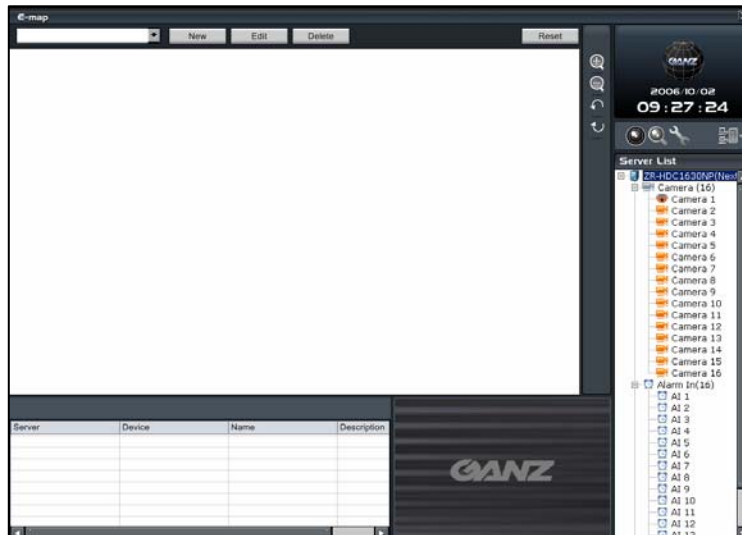
1. Click on the “Delete” button to delete the E-map.



2. A message will be displayed, e.g. “Do you really want to delete?”.



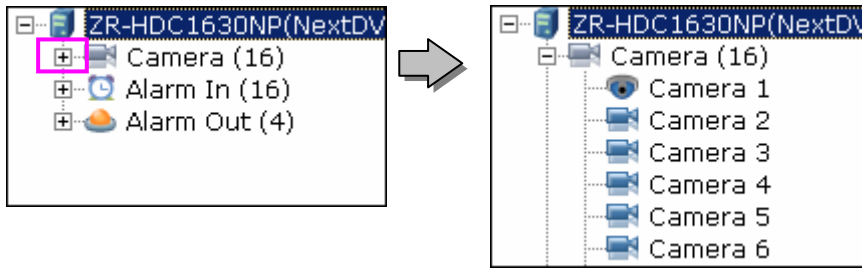
3. Click on the “Yes” button to delete the E-map.



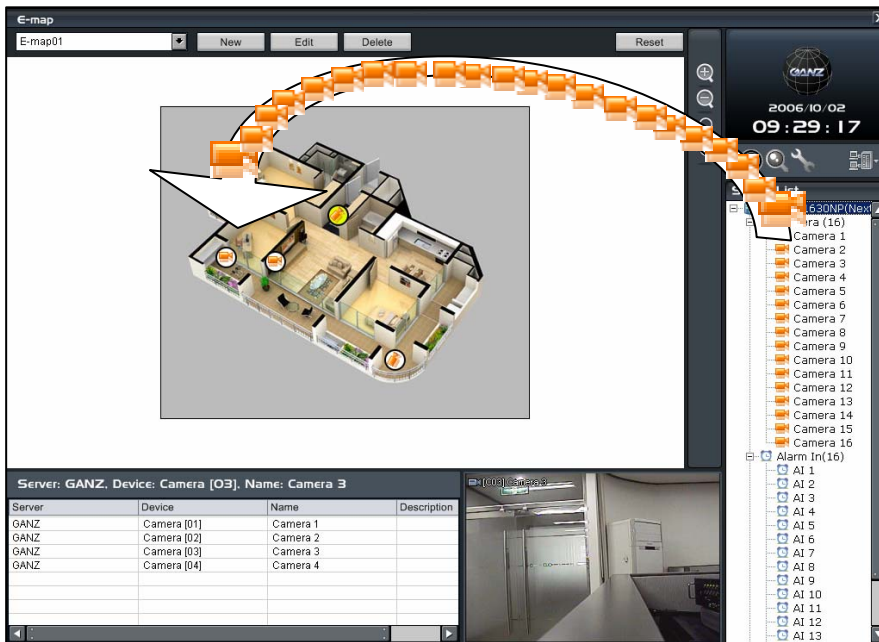
5.5 Device control registration to E-Map

Device control registration

1. Expand the resource information to see the resource information of the connected DVR server in the DVR server list.



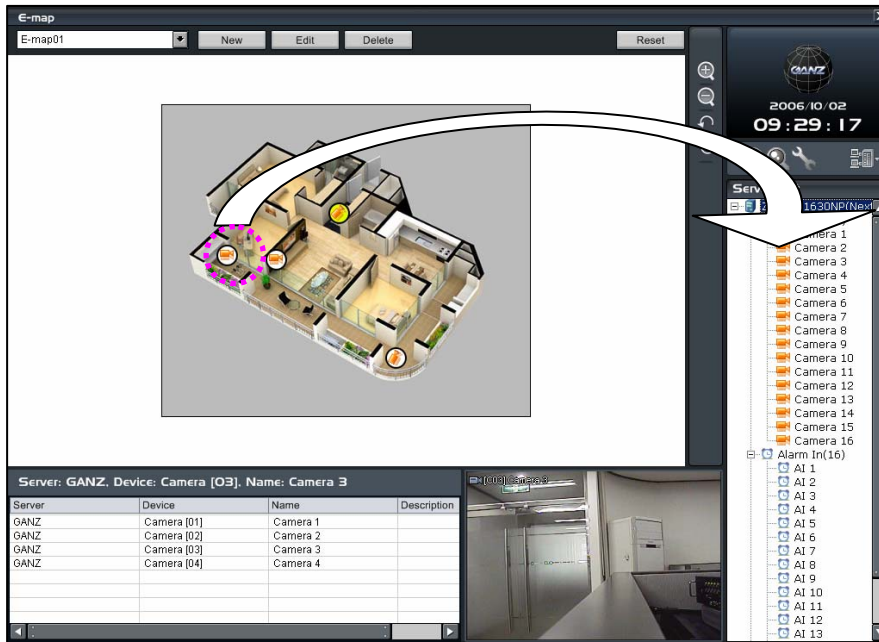
2. Drag and drop the cameras, alarm-ins and alarm-outs in the DVR server list to the required locations.



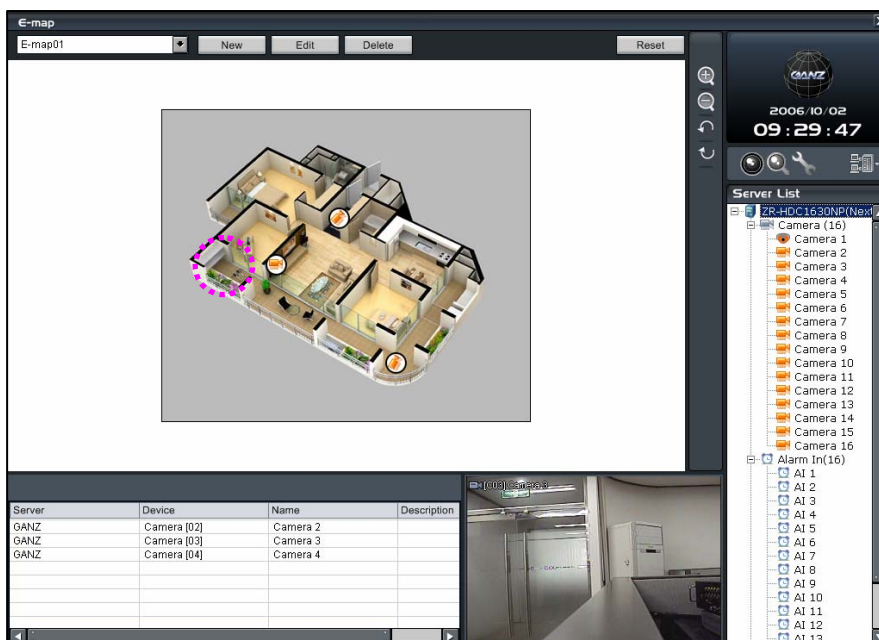
5.6 Remove device control from E-Map

Remove device control

1. Select the control you wish to remove.
2. Drag the camera picture to the DVR server list



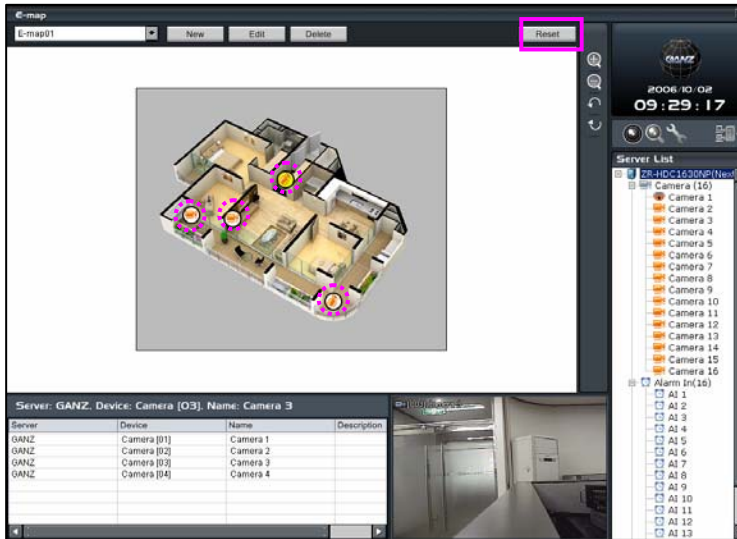
3. The removed camera is marked as a vacancy.



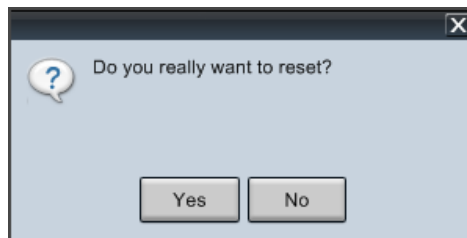
5.7 Remove all device controls from E-Map

Remove all device controls

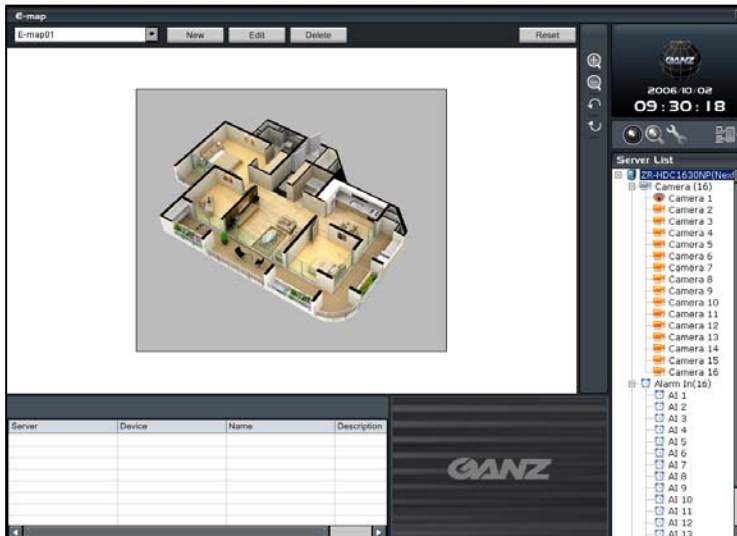
1. Click on the “Reset” button to remove all device controls.



2. A box will be shown as below.



3. Click on the “Yes” button. Then all device controls will be removed.



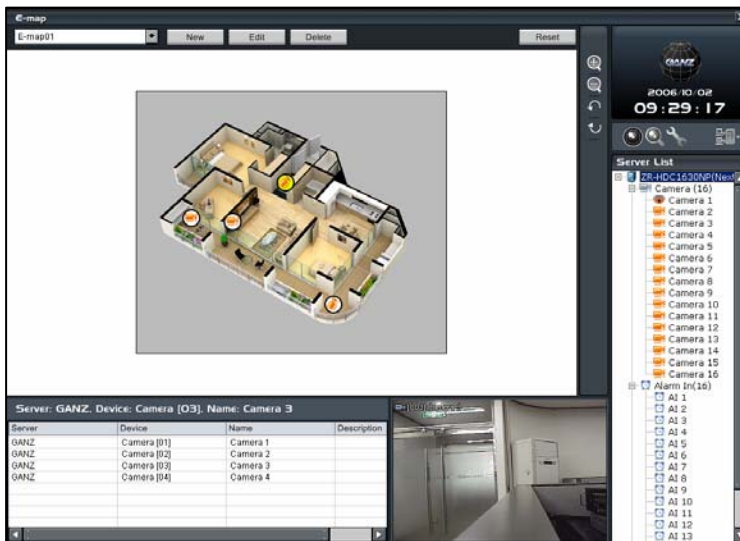
5.8 Live screen output

Display live screen

1. Double-click on the  control in E-map.



2. The live screen in which you wish to search will be output.



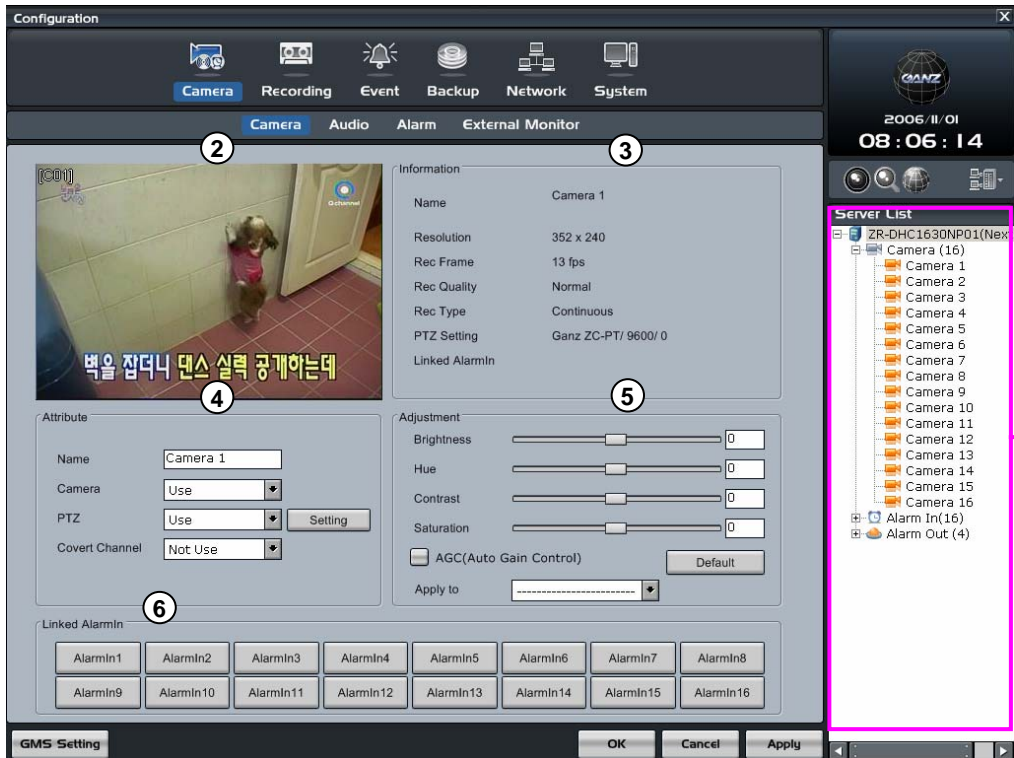
6. Configuration

6.1 Hardware

The hardware setup allows users to modify external device configurations, such as cameras, alarms and monitors.

6.1.1 Camera

You can set up each camera configuration individually using the options available below.



- ① **Camera** : Select channel to set up camera.
- ② **Camera display** : It shows the picture of the selected camera. When you make adjustments to the camera settings, you can see the changes in the picture.
- ③ **Information** : It shows all the setup information of the selected channel.
- ④ **Attribute** : Set the camera name, camera in use or disabled, apply PTZ protocol and whether the covert camera is enabled or disabled.
- ⑤ **Adjustment** : Change the settings for the brightness, hue, contrast and saturation. If you click on the “**Default**” button, it will return to the default settings. AGC (Auto Gain Control) is an additional feature (automatically controls the brightness).
* Apply to : The selected channel setting value can be applied to all or just selected channels.

[Note]

- Picture control should not be used as the main setup point. It is only intended for adjustment purposes. Please check the setup of the camera and monitor the output first.

- ⑥ **Linked Alarm-In** : Select an alarm-in to be linked with the camera. When an event occurs in an alarm-in, any camera linked to the alarm-in will record.

Camera attributes

Attribute

①	Name	Camera 1		
②	Camera	Use		
③	PTZ	Use	Setting	④
⑤	Covert Channel	Not Use		

- ① **Name** : Enter the name of location where the camera is installed.
- ② **Camera** : Choose to enable or disable the camera.
- ③ **PTZ** : Choose to enable or disable the PTZ.
- ④ **Setting** : Select the PTZ setup configuration.
- ⑤ **Covert** : Choose to enable or disable the covert camera.


Covert camera is the function that will disable the display in live mode. This feature is used for security reasons so that anyone who views the security display does not know the location of the camera.

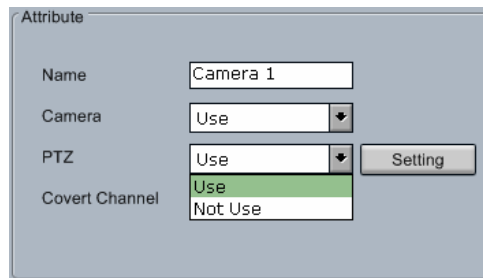
[Note]

- In situations where the picture is viewed remotely, the administrator can select which users can view the covert camera remotely.

The DVR system can connect with any PTZ, speed dome or Rx receiver and control the devices remotely via our software. To use this function, connect the device to the RS485 port on the DVR and set up the address and settings of the remote device.

PTZ setup

1. Select the camera number for which you wish to set up PTZ control.
2. Click on the  button to select "use" PTZ.



Attribute

Name: Camera 1

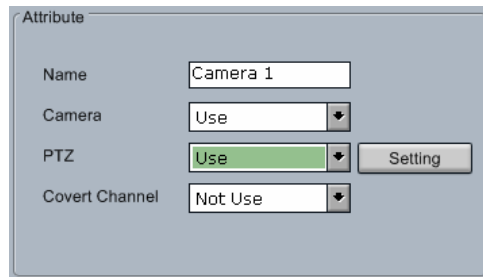
Camera: Use

PTZ: Use (dropdown menu open, showing 'Use' and 'Not Use')

Covert Channel: Use

Setting button is active.

3. If you choose "use", the **"Setting"** button will be activated.



Attribute

Name: Camera 1

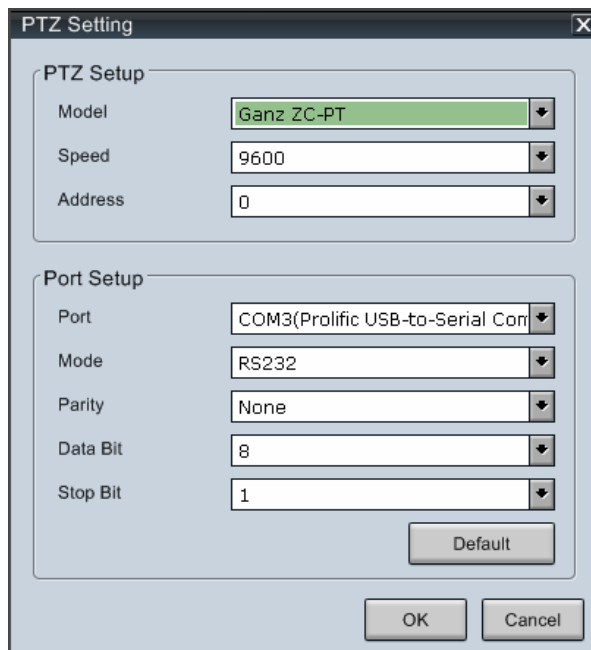
Camera: Use

PTZ: Use (dropdown menu open, showing 'Use' and 'Not Use')

Covert Channel: Not Use

Setting button is active.

4. Click on the **"Setting"** button. The display will appear as follows.



PTZ Setting

PTZ Setup

Model: Ganz ZC-PT

Speed: 9600

Address: 0

Port Setup

Port: COM3(Prolific USB-to-Serial Com)

Mode: RS232

Parity: None

Data Bit: 8

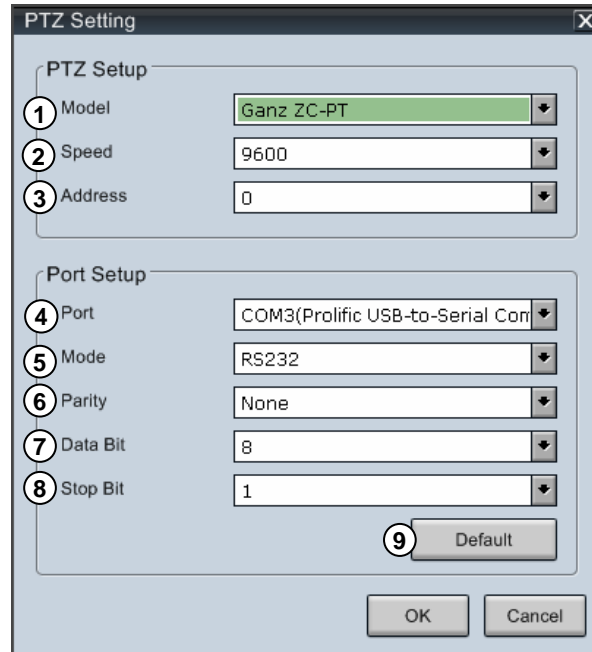
Stop Bit: 1

Default button

OK, Cancel buttons

5. Input the PTZ model (protocol), speed (baud rate), address and port settings.

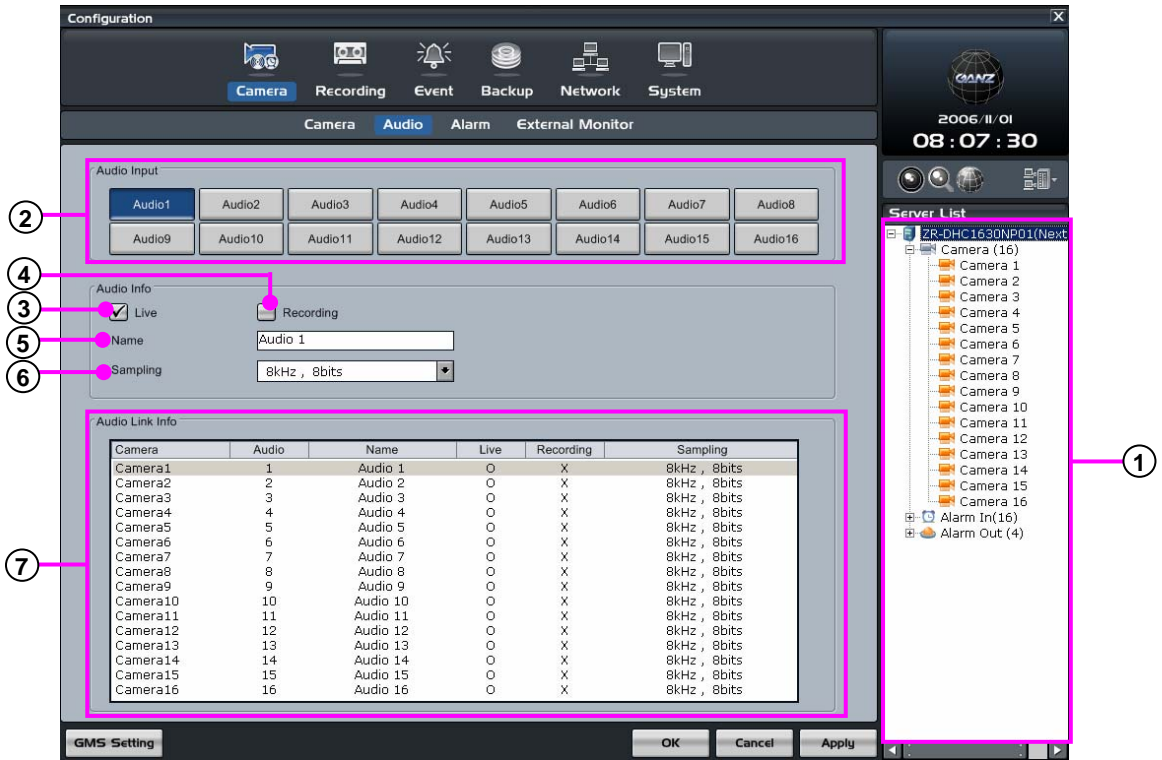
6. Click on the “OK” button once setup is complete.



- ① **Model** : Select the PTZ protocol of the installed PTZ.
- ② **Speed** : Select the PTZ speed(2400~115200 Bps).
- ③ **Address** : Enter the PTZ adress(0~255).
- ④ **Port** : Select the port number connected to the PTZ.
- ⑤ **Mode** : Select the port mode connected to the PTZ.
- ⑥ **Parity** : Set bit (None, Odd, Even, Space) to prevent fatal error.
- ⑦ **Data Bit** : Set data bit 4, 5, 6, 7 or 8.
- ⑧ **Stop Bit** : Set stop bit 1, 1.5 or 2.
- ⑨ **Default** : Install the port number with the initial number.

6.1.2 Audio

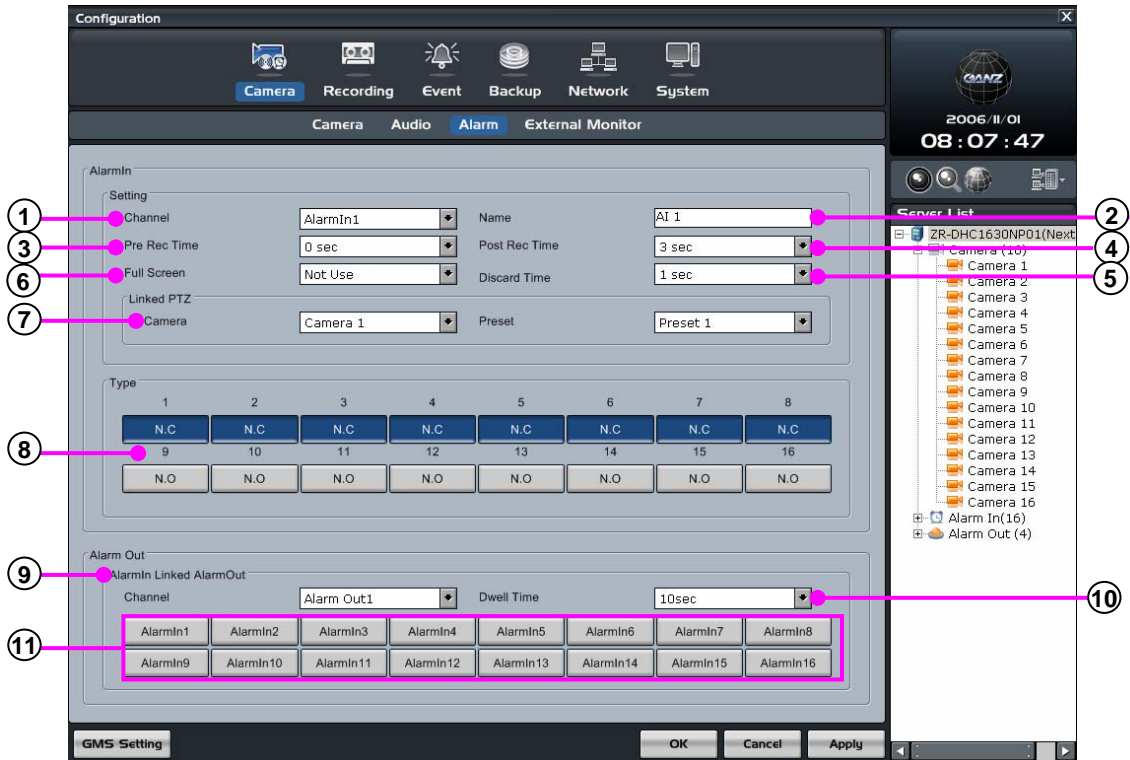
The audio setup allows users to modify live audio output and recordings on the watch screen.



- ① **Camera** : Select the channel to set up the camera.
- ② **Audio Input** : Select the audio channel to link with the selected channel.
- ③ **Live** : Set up live audio output on the watch screen
- ④ **Recording** : Set up audio recording.
- ⑤ **Name** : Enter audio channel name.
- ⑥ **Sampling** : Select audio quality to record audio.
- ⑦ **Audio Link Info** : Displays each channel audio property.

6.1.3 Alarm

Alarms are used to activate and deactivate sirens and lights when certain events occur, e.g. when motion is detected or a sensor triggered. Configure the DVR using the explanations below.



① **Channel** : Select the alarm-in number for configuration.

② **Name** : Input name for the selected alarm-in .

③ **Pre rec time** : Set the pre-recording time for the period between when the event was detected in the alarm-in and when the DVR starts recording.

④ **Post rec time** : Set the post-recording time for the period after when the event was detected in the alarm-in and when the DVR stops recording.

⑤ **Discard Time** : The discard time option is to limit the amount of alarm inputs created within a set time period. If an alarm is triggered more than once in the set time period, then the subsequent alarms will be discarded until the time from the first alarm is more than the discard time.

⑥ **Full Screen** : When event an occurs, set the DVR to display the picture of camera which is connected to the alarm-in in full screen mode on the live display.

⑦ **Linked PTZ** : When an event occurs, link a PTZ camera to move to a preset position.

⑧ **Sensor type** : Designate signal type of alarm-in. The alarm-in changes from [NC]->[NO] or [NO]->[NC upon activation].

“N.C” : When an alarm-in is opened, an event has occurred. (Normally Close).

“N.O” : When an alarm-in is closed, an event has occurred. (Normally Open).

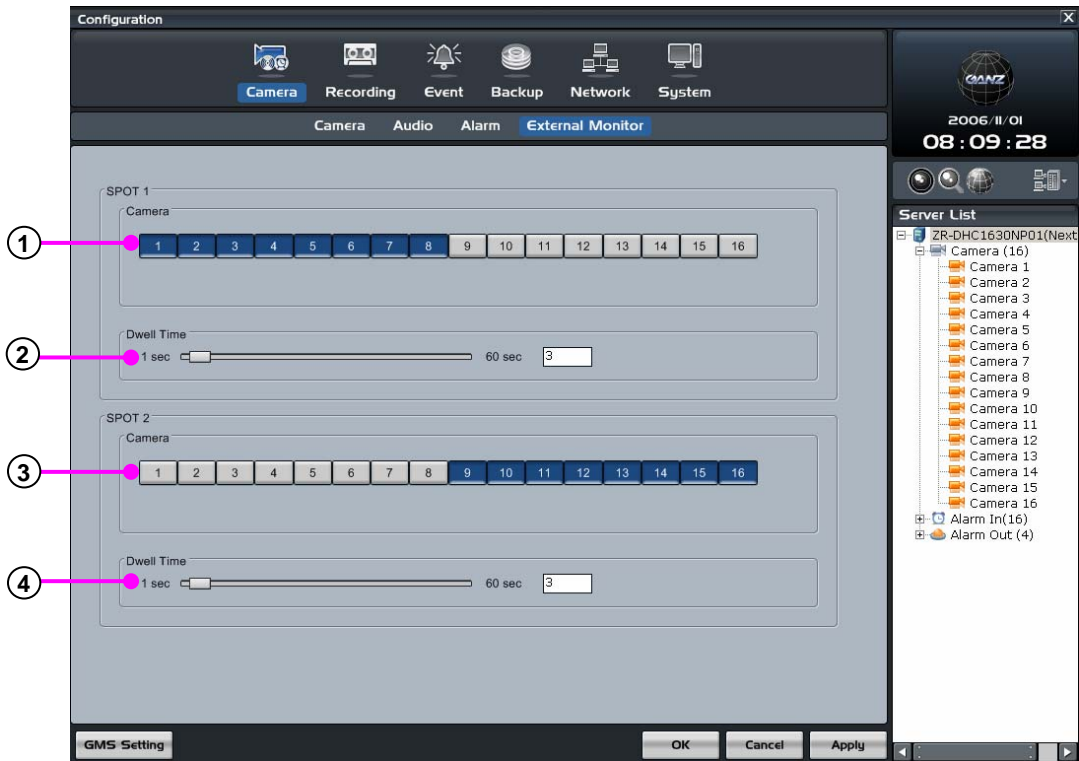
⑨ **Channel** : Select an alarm-out to be linked with the alarm-in.

⑩ **Dwell time** : Select the length of the alarm-out time. The alarm will activate for as long as the input dwell time and will start from when the event occurred.

⑪ **Sensor button** : Select an alarm-in to be linked with an alarm-out.

6.1.4 External monitor

Setup for external monitor output to change the displayed images on the spot monitors.




- ① **Camera select** : Select camera for output on spot monitor 1.
- ② **Cycle period** : Set up sequence dwell time period by dragging the slider.
- ③ **Camera select** : Select camera for output on spot monitor 2.
- ④ **Cycle period** : Set up sequence dwell time period by dragging the slider.

6.2 Recording

6.2.1 Recording

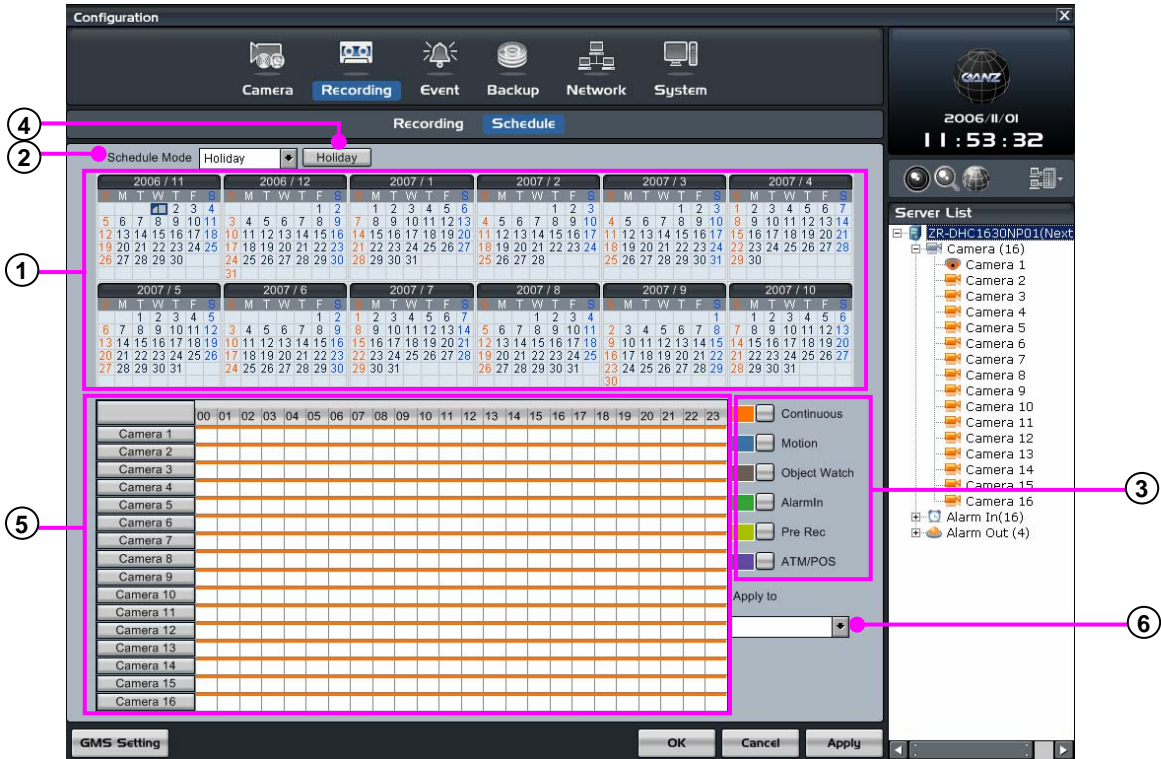
Recording contains the settings for each channel. You can set the frame rate, emergency frame rate, quality and resolution by weekdays, Saturdays and holidays.



- ① **Schedule type** : To see schedule type, click on the  button. You can make a schedule using different recording options (recording fps, quality, resolution, emergency fps. You can also click on the “Color” button to assign each schedule a color to distinguish between schedule types.
- ② **Frame** : Set the recording fps for each camera.
- ③ **Quality** : Set the recording quality for each camera.
- ④ **Resolution** : Set the recording resolution size.
- ⑤ **Emergency recording rate** : Set the recording fps for emergency situation.
- ⑥ **Apply to** : The selected channel setting value can be applied to all or just selected channels.
- ⑦ **Timeline panel** : Shows the recording schedule by weekdays, Saturdays, holidays. You can select which type of recording option you want to set up by using the mouse to drag areas of each recording option on the graph.

6.2.2 Schedule

Establish the recording schedule using the various recording modes and set for weekdays, Saturdays and holidays. The display includes a calendar for selection by day.



① **12-month calendar** : Displays a calendar for a 12-month period.

② **Schedule mode** : Click on the button to select between the different modes “Week”, “Saturday”, “Holiday”.

Weekday : Make a schedule to loop for every weekday.

Saturday : Make a schedule to loop for every Saturday.

Holiday : Make a schedule to loop for every holiday.

③ **Recording mode** : Select between the variety of recording modes. Click on the box next to each recording mode to select each or simultaneous recording modes.

Continuous recording : Records continuously.

Motion recording : Recording only when motion is detected on screen.

Object watch recording : Only recording for movement within a designated area.

Sensor recording : Recording only when alarm-in is activated.

Pre recording : Recording by motion but recording starts before motion according to a pre-recording time period that can be manually set.

ATM/POS : Recording only by ATM/POS events.

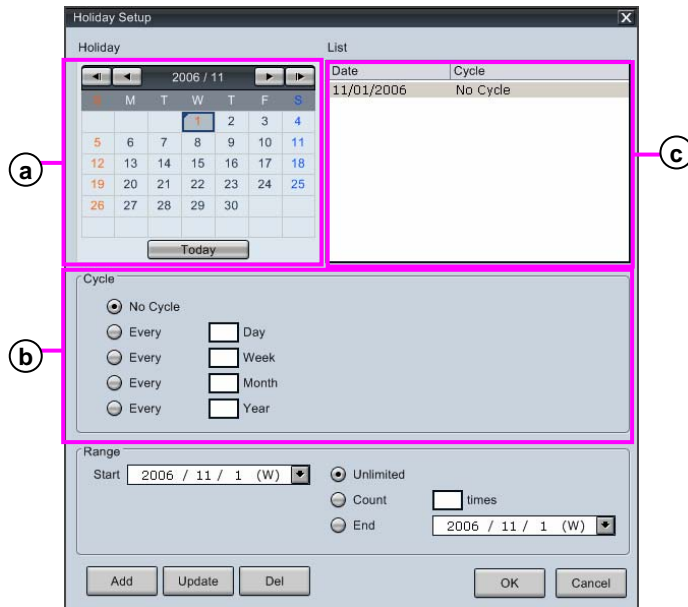
④ **Holiday** : Set up holiday by designation of user (see page 64).

⑤ **Timeline panel** : Set up the recording type for each camera across a 24-hour period. Multiple recording type can be set up, use the mouse to drag recording areas on the graph.

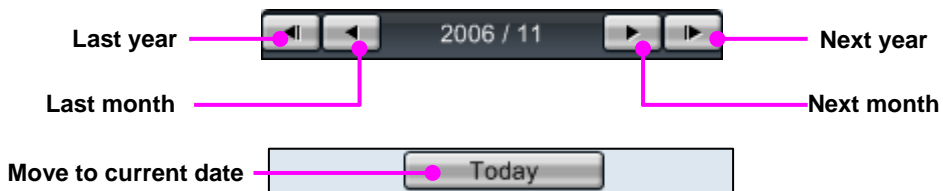
⑥ **Apply to** : Selected channel setting values can be applied to all or just selected channels.

Holiday setup

1. Click on the “**Holiday**” button to set up a holiday in the recording schedule.



- (a) Calendar** : Select the date which you will designate as a holiday.



- (b) Repetition** : After setting up a holiday date, the user can create the holiday repetition period by day/week/month.

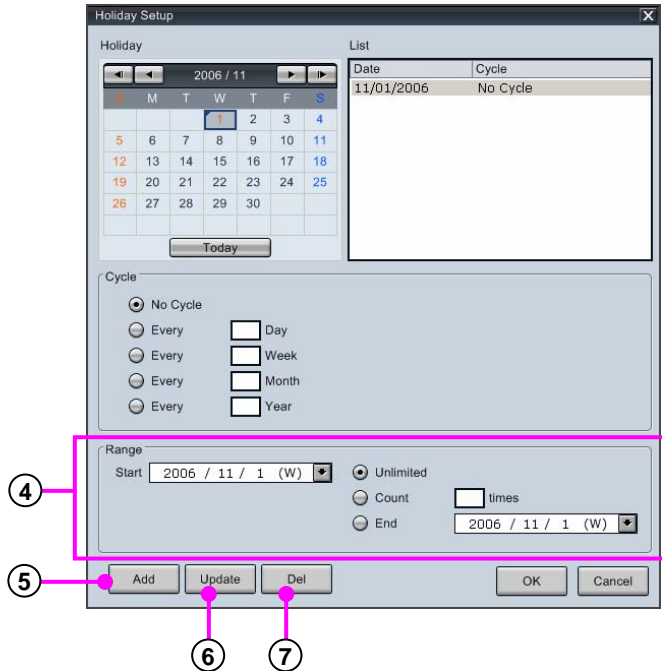
no repetition : It will just record one day which is designated as a holiday.

per day : Repeat the holiday schedule every day from designated date.

per week : Repeat the holiday schedule every week from designated date.

per month : Repeat the holiday schedule every month day from designated date.

- (c) Holiday list** : Shows a list of previously setup holidays and their repetition periods.



④ **Range** : Set up the holiday by different time and count ranges.

Unlimited : Will never stop looping the holiday.

View count **time** : Set up number of holidays to repeat based on the starting day.

End : Set up holiday from a specific starting day and finishing day.

⑤ **Add** : Add holiday date to the recording schedule.

Click on the **“Add”** button to add a new designated holiday.

⑥ **Update** : Update holiday information.

Click on the **“Update”** button to update holiday information.

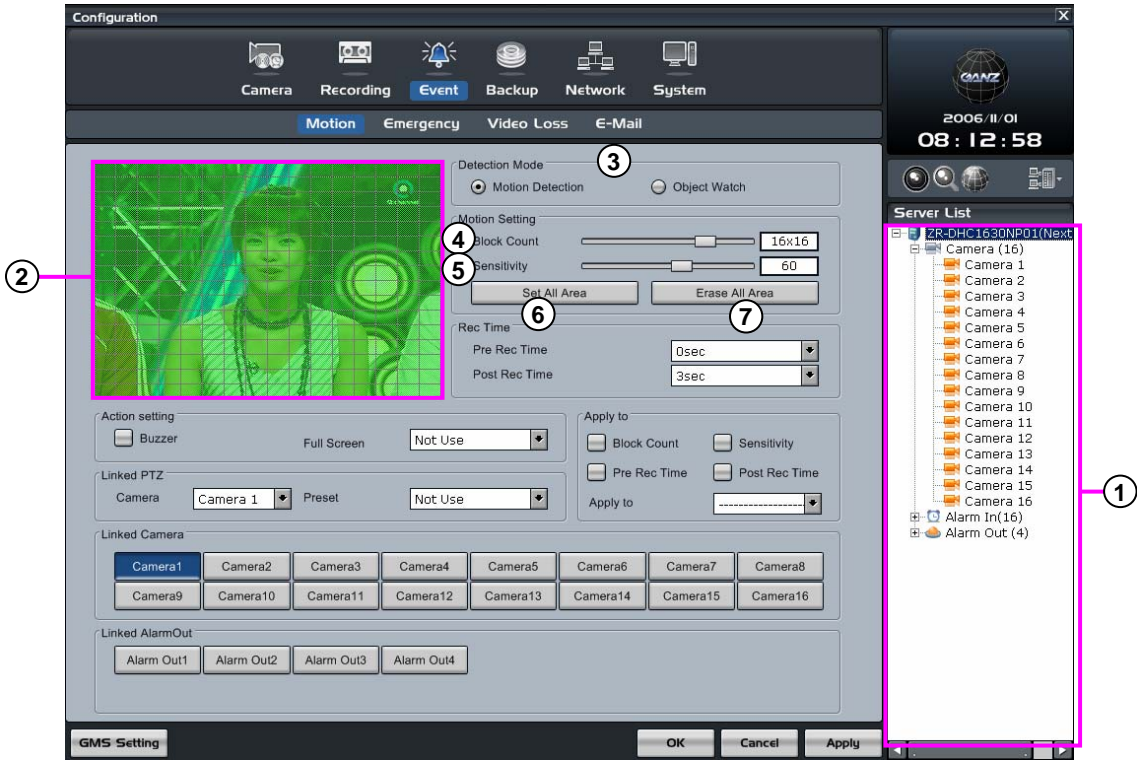
⑦ **Del** : Delete holiday from the recording schedule.

Click on the **“Del”** button to delete the holiday from the holiday list.

6.3 Event

6.3.1 Motion detection

Record images and generate alarms using individually assigned cameras for motion detection. Determine motion block areas, sensitivity and pre/post recording times.



① **Camera** : Select the channel to set up the camera.

② **Motion detection grid** : Displays the picture for the selected camera. Use the mouse to select and deselect blocks within the area to be used for motion detection. The green color means the area is active and a blank block indicates that it is deactivated.

Motion detection area setup : Click the left mouse button and drag or select areas for motion detection area designation.

Motion detection area removal : Click the right mouse button and drag or deselect areas to remove from the motion detection area.

③ **Detection mode** : Select between motion detection and object detection modes. If you want to use the motion detection type, select "motion detection". If you want to use object detection type, select "object detection".

Motion detection : This type of recording records motion in the designated areas whenever motion occurs.

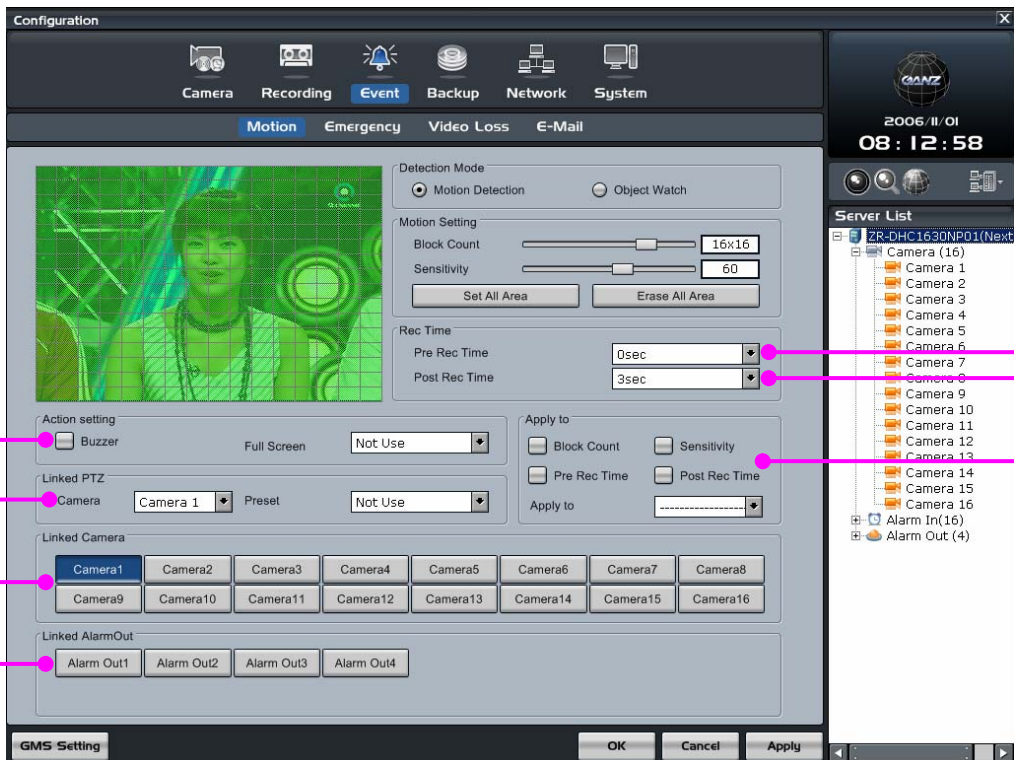
Object detection : This type of recording records the movement of objects in the designated areas when objects are moved.

④ **Block Count** : Configure the number of blocks within the motion grid.

⑤ **Sensitivity** : Set the sensitivity of the motion detection.

⑥ **Set all area** : Select all the motion detection blocks on the grid.

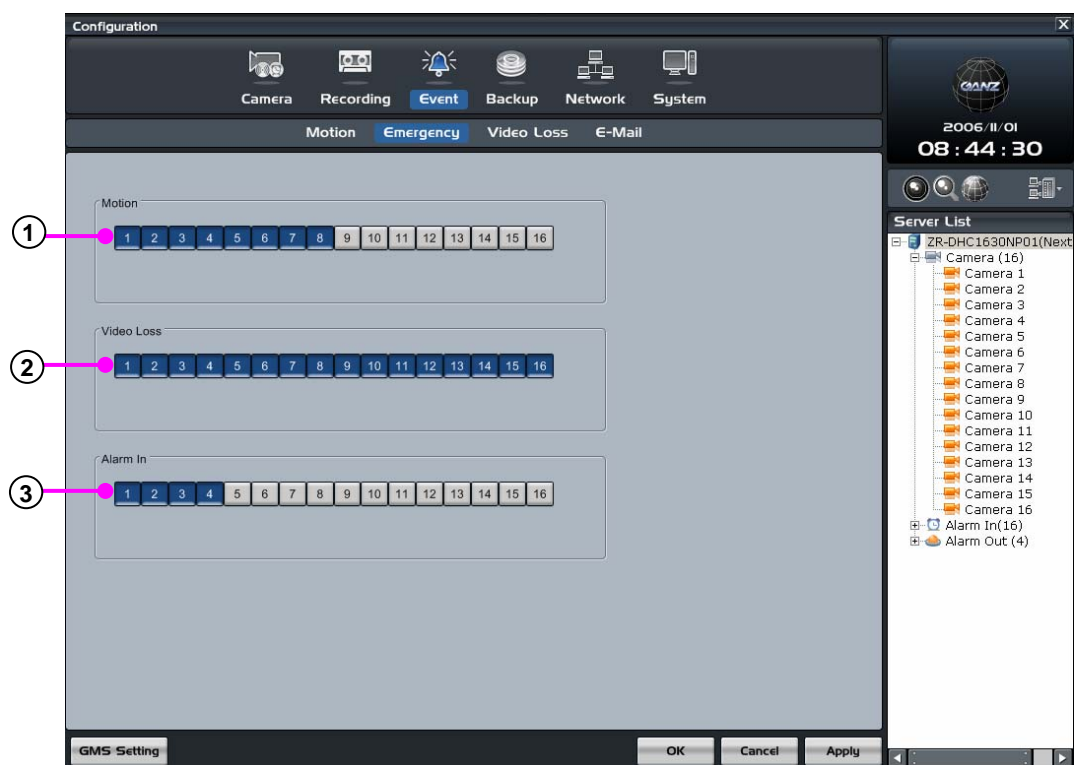
⑦ **Erase all area** : Clear all the motion detection blocks from the grid.



- ⑧ **Pre rec time** : Set the pre-recording time for the period between when the motion was detected and when the DVR starts recording.
- ⑨ **Post rec time** : Set the post-recording time for the period after when the motion has stopped and when the DVR stops recording.
- ⑩ **Action setting** : Set the internal buzzer to activate upon motion and select the camera to full screen in live view upon motion.
- ⑪ **Linked PTZ** : Set a PTZ camera to move to a preset position upon motion activation.
- ⑫ **Apply to** : The selected channel setting value can be applied to all or just selected channels.
- ⑬ **Linked Camera** : Link cameras to record upon motion detection in another camera, multiple cameras can be selected to be linked via motion.
- ⑭ **Linked Alarm-Out** : Link alarm-outs to trigger on motion detected in a camera, multiple alarms can be linked via motion.

6.3.2 Emergency

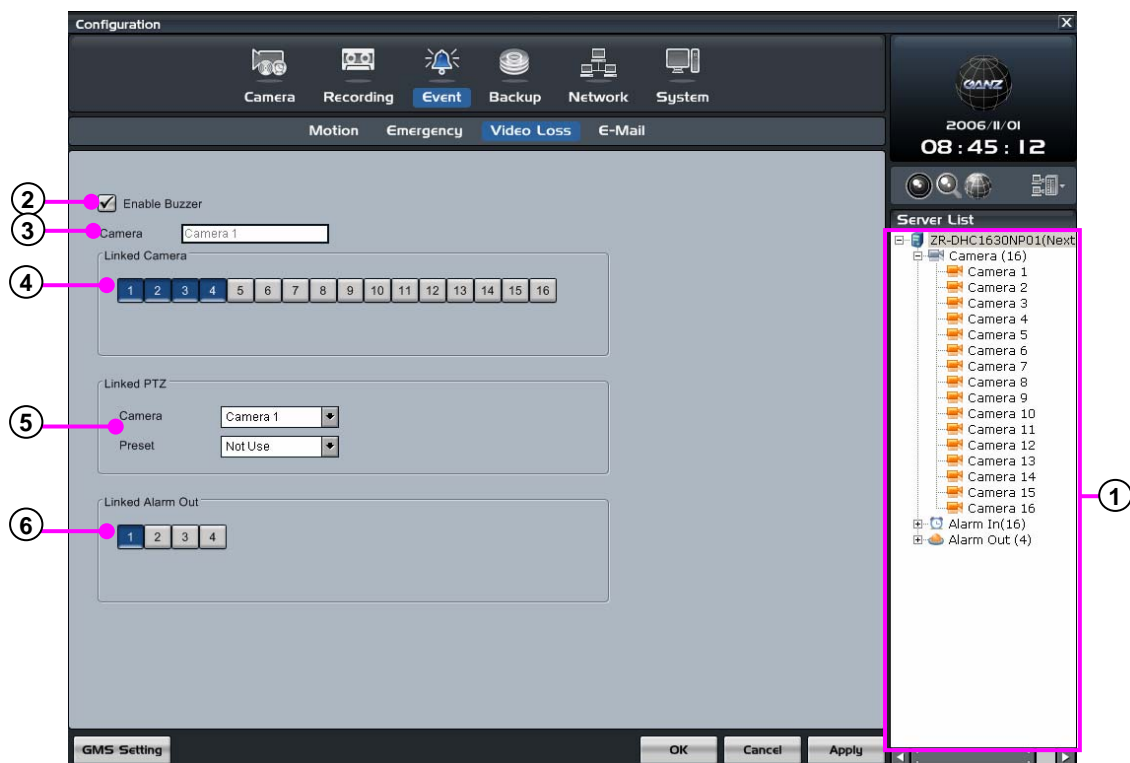
Emergency events can be detected via motion detection, video loss or alarm-ins. Select the input numbers that are to be set up for an emergency event to record the emergency frame rate and to inform the remote computer when the event has occurred.



- ① **Motion** : Select the cameras to be used to activate the emergency settings of the DVR upon motion detection.
- ② **Video Loss** : Select the channels to be used to activate the emergency settings upon video loss.
- ③ **Alarm-In** : Select the alarm-in to be used to activate the emergency settings of the DVR upon alarm-in activation.

6.3.3 Video loss

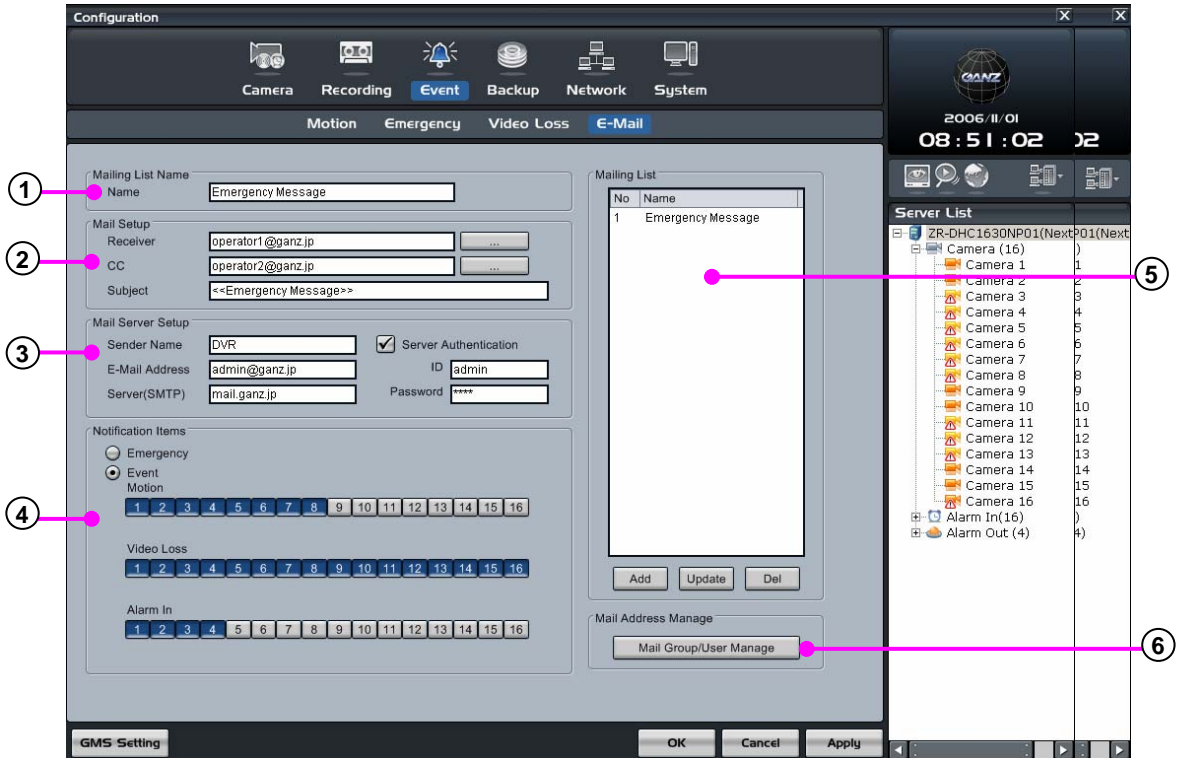
Video loss setup is used for when the video signal is lost either through camera malfunction, cable disconnection, damage or other external tampering. When video loss occurs, it can be used to make another camera record or trigger an alarm and PTZ preset movement.



- ① **Camera** : Select the channel to set up the camera.
- ② **Enable** : Trigger the DVR internal speaker to beep when video loss occurs.
- ③ **Camera** : Indicate the name of the selected camera.
- ④ **Linked camera** : Set up other cameras to be linked to the selected camera upon video loss.
- ⑤ **Linked PTZ** : Link a PTZ camera to the camera. Upon video loss, the PTZ camera will move to a selected preset position.
- ⑥ **Linked alarm** : Link alarm outputs to be connect to the selected camera. Upon video loss, the alarm-out will be activated.

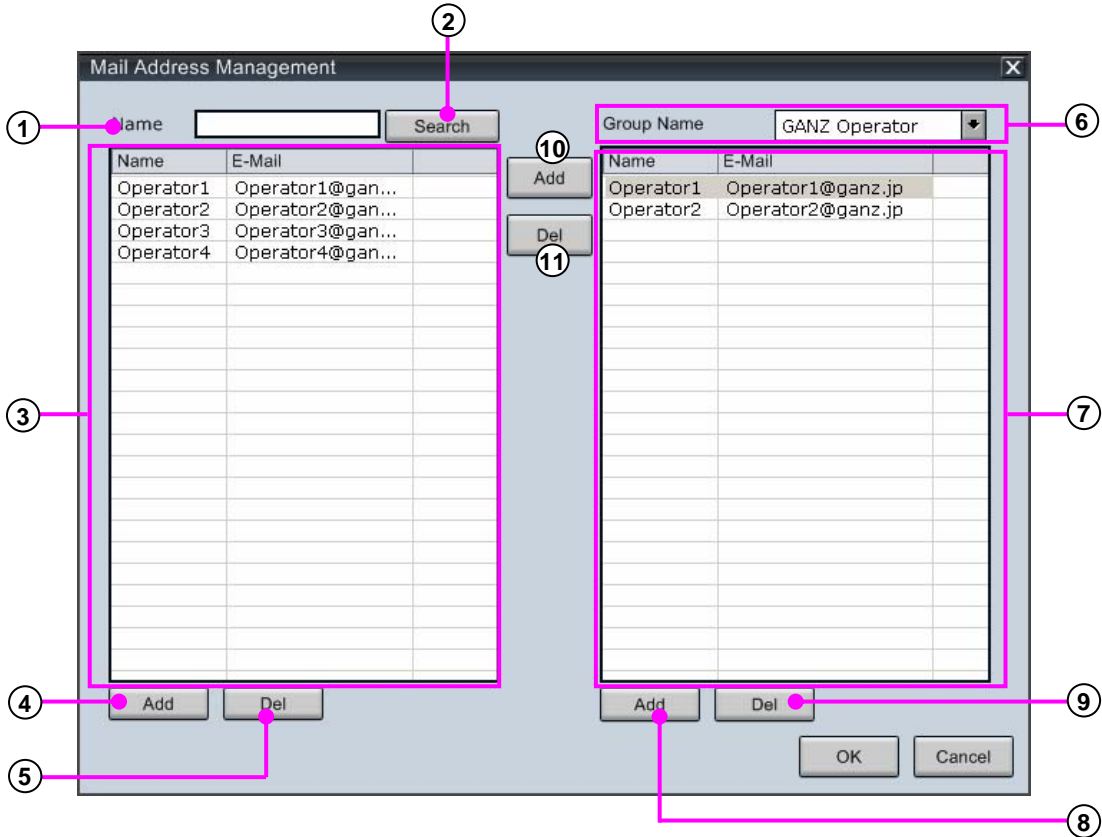
6.3.4 E-mail notice

Send an e-mail to single or multiple accounts when an emergency occurs set by motion, video loss and alarm input.



- ① **Mail list name** : Enter name of who will be added to the mail list.
- ② **Mail setup** : Enter receiver, CC and the subject.
Receiver : Enter receiver's mail address.
CC : Enter CC's mail address.
Subject : Enter the subject of the message.
- ③ **Mail server setup** : Enter information of server name, Mail address. ID, Password etc.
Sender name : Enter the address for the sender name.
Mail address : Enter the mail address of the sender.
Server (SMTP) : Enter server address of the sender.
Server Authentication : If the server uses password identification to access the mail address.
ID : Enter the ID for SMTP.
Password : Enter the password for SMTP.
- ④ **Notification Item** : Select the notification item, either "emergency" or "event". Select the channel to send e-mail notifications when event, video loss or motion detection has occurred.
- ⑤ **Mail list** : The mail list can be added, updated or deleted.
Add : Add list to the mail list.
Update : Edit the information of an account in the mail list.
Delete : Delete item from the mail list.
- ⑥ **Mail address manage**: Here you can manage e-mail groups.

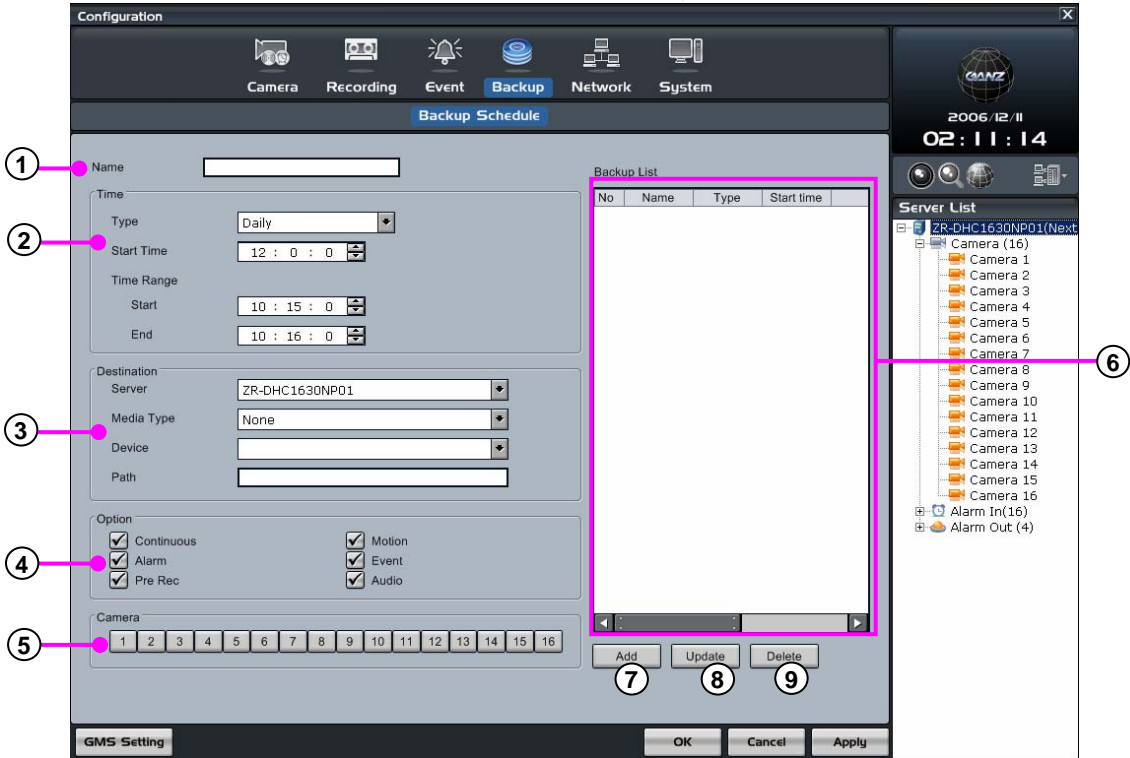
Manage user mail groups



- ① **Name** : Input the contact name you wish to search for.
- ② **Search** : Click the button to start the search.
- ③ **Mail list** : Displays all registered contact names and e-mail addresses in a list.
- ④ **Add** : Add new user name and e-mail address.
- ⑤ **Del** : Delete the selected user from the list.
- ⑥ **Group Name** : Select a group name from the drop-down menu, all e-mail contacts connected to the group name will then appear below in the group list.
- ⑦ **Group list** : Displays all e-mail contacts in current selected group.
- ⑧ **Add** : Add a new group.
- ⑨ **Del** : Delete selected group.
- ⑩ **Add** : Add selected e-mail contact from mail list to add to a group list.
- ⑪ **Del** : Delete selected e-mail contact from the group list.

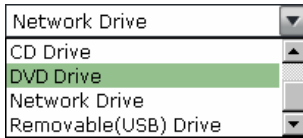
6.4 Backup

Establish a schedule that assigns backup recordings to be created at a certain time and date. The backup can be made to HDD, USB, CD or DVD on the local system.



- ① **Backup list name** : Input backup name which will be added to the backup list.
- ② **Time** : Select “Daily”, “Weekly”, “Monthly” or “Yearly” and the repetition period. Then select the start and end time range.
Start Time : Enter the time you wish to start the backup. (Must be after end time range)
Start Time Range : Enter the start time range for the backup period.
End Time Range : Enter the end time range for the backup period.

- ③ **Destination** : Enter the details for where the backup is to be made.
Server : Select the DVR server on which the backup will be made.
Media type : Select backup media on which backup data will be stored.



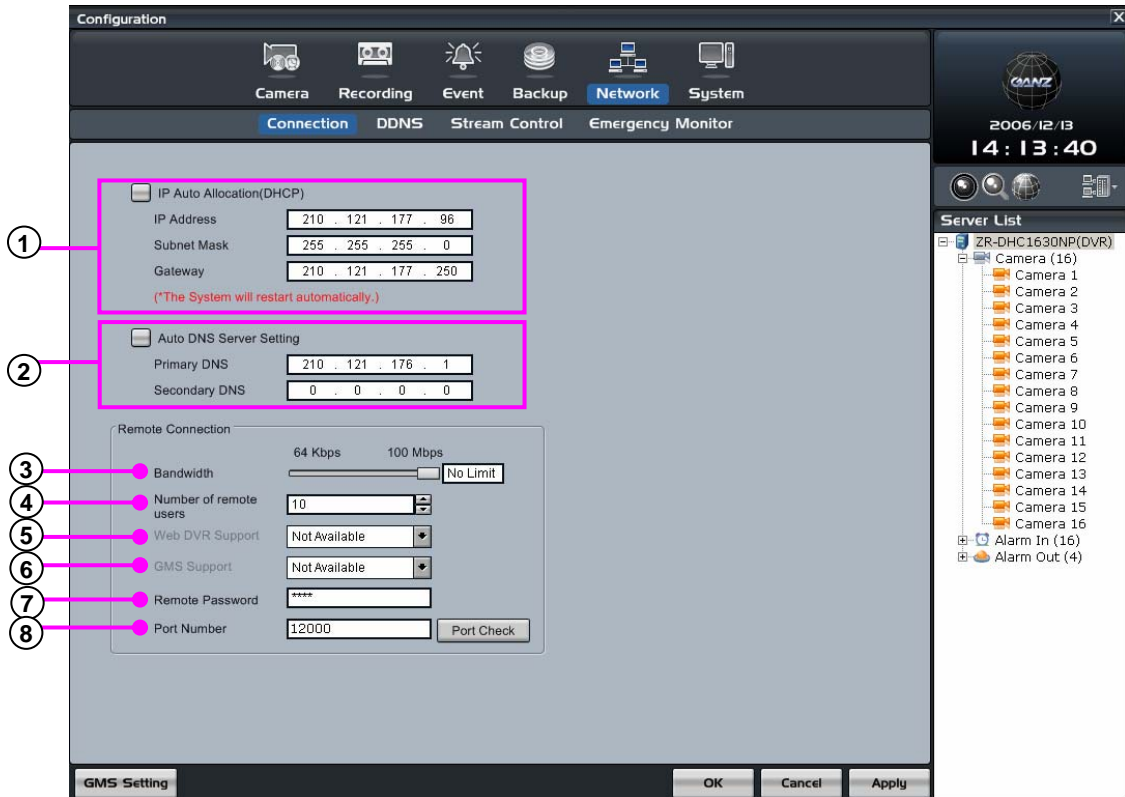
Device : Select the drive path for the type of media on DVR server.
Path : Select the path which the backup will be made.

- ④ **Option** : Make a backup by an event category.
- ⑤ **Camera** : Select the camera or channel to backup.
- ⑥ **Backup list** : It shows the backup details for the time, cycle period and backup media. The backup will start in order according to time which is set up in the backup list.
- ⑦ **Add** : After entering a backup schedule, click on the “Add” button.
- ⑧ **Update** : Select to update a backup in the list, click on the “Update” button.
- ⑨ **Delete** : Select backup to delete from the list, click on the “Delete” button.

6.5 Network

6.5.1 Network

Enter network details and configure network settings such as the bandwidth, port number and user connection number.



① **IP Auto Allocation (DHCP)** : Check the IP Auto Allocation box to receive the address automatically from the DHCP server if the DVR is connected to a DHCP network. If connected to a LAN network without a DHCP server, then manually enter the network details for the connected network, input IP address, subnet mask and gateway.

② **Auto DNS Server setting** : Input first DNS server address to main DNS server and support DNS server.

[Note]

- Please contact the network administrator if you don't know the IP address or network situation.

③ **Bandwidth** : Set up the maximum bandwidth for the DVR data transmission by network.

④ **Acceptable count** : Set up the acceptable number of connected clients (remote users).

[Note]

- When many clients connect to the DVR, the system can interfere with basic operation due to a large load on system resources. The count function is made to prevent the system from being overloaded by too many users. If this happens, limit the client connect number.

⑤ **WEB DVR Support** : Select to enable or disable the Web DVR facility.

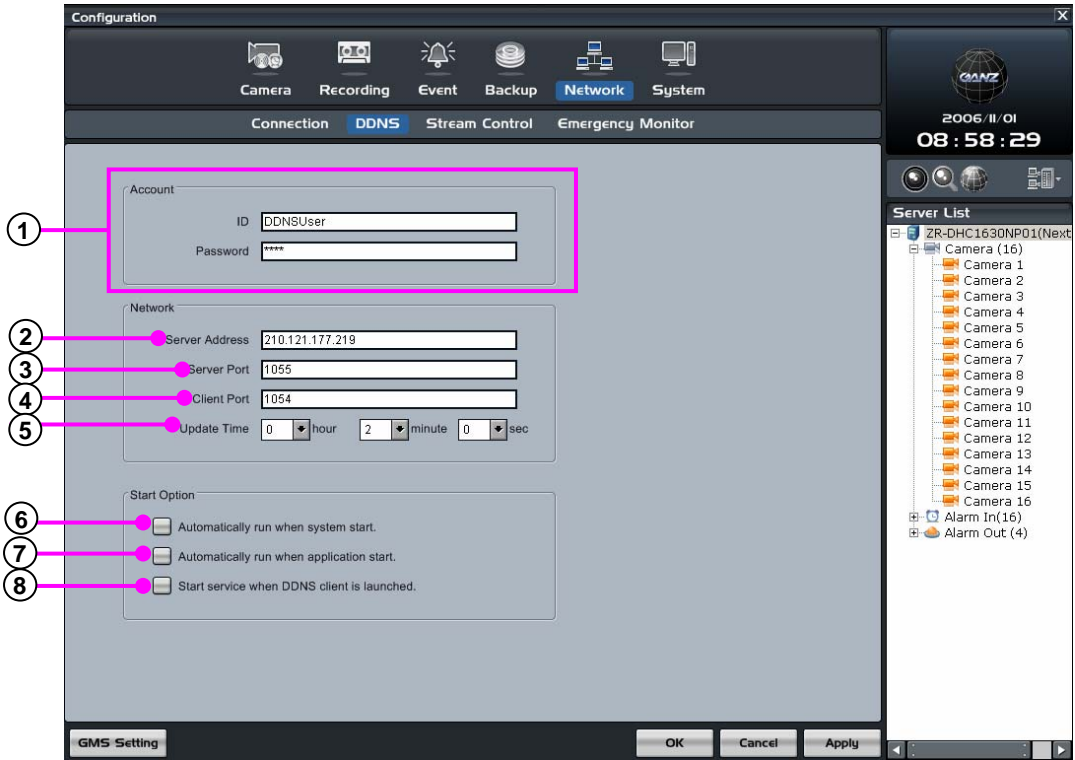
⑥ **CMS Support** : Select to enable or disable the CMS software connection.

⑦ **Remote password** : Input password for the network connection to the DVR system.

⑧ **Port number** : Input the network port on which data is transferred. Click on the “**Port Check**” button to find if the selected port number is available on your network.

6.5.2 DDNS

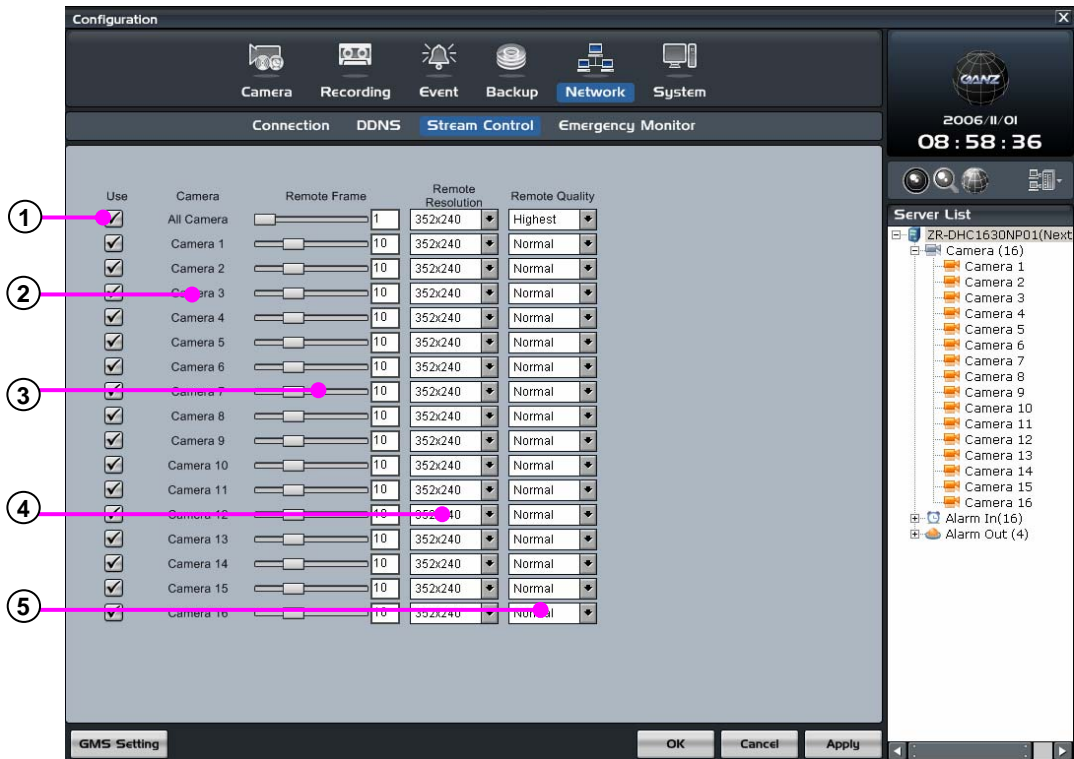
A DVR system connected by DDNS does not require a static IP address. For this reason, the system can be connected to ADSL line with a dynamic IP.



- ① **Account** : Enter ID and password for the DDNS server.
- ② **Server Address** : Enter the address of server which provides DDNS service.
- ③ **Server Port** : Enter the port number of the DDNS server.
- ④ **Client Port** : Enter the client port number of DDNS.
- ⑤ **Update Time** : Enter the update time of DDNS information.
- ⑥ **Automatically run when system start** : The DDNS program will automatically run when the system starts.
- ⑦ **Automatically run when application start** : The DDNS program will automatically run when application starts.
- ⑧ **Start service when DDNS client is launched** : When the DDNS client program is launched, the connection is made to DDNS server.

6.5.3 Stream control

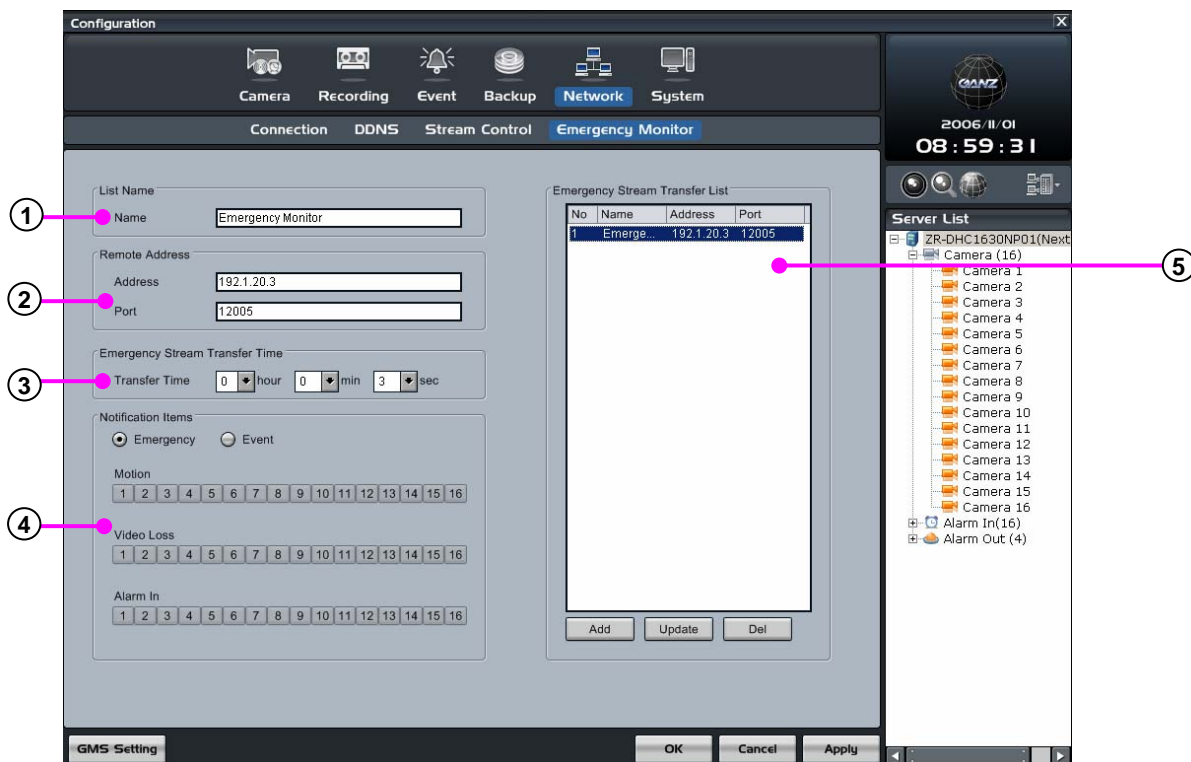
Set the stream control for all cameras by frame rate, resolution and quality.



- 1 Use** : Select a camera on which you want to use transfer control.
- 2 Camera** : It shows each camera number.
- 3 Remote frame** : Control the frame rate which is transferred by each camera across the network.
- 4 Remote resolution** : Set the resolution size to be transferred by each camera across the network.
- 5 Remote quality** : Set the quality of picture to be transferred by each camera across the network.

6.5.4 Emergency Monitor

This function transfers the pictures and data to Emergency Monitor on the client computer when an emergency or event occurs. You have to set up the remote IP address, port number and picture transfer time.

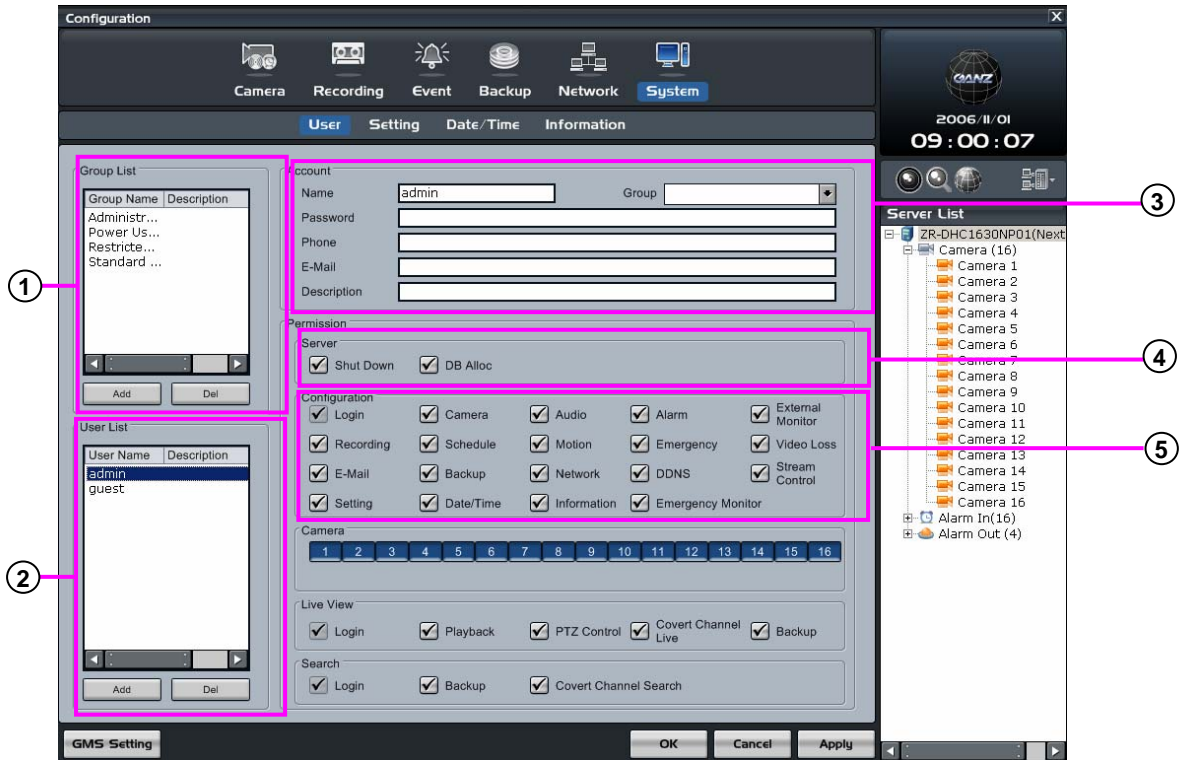


- ① **List Name** : Enter the Emergency Monitor setup name for the account.
- ② **Remote Address** : Enter the address information of the Emergency Monitor.
Address : Enter the IP address of the remote client computer.
Port : Enter the port number for transfer to the remote client computer. (Port number: 12005)
- ③ **Emergency Stream Transfer Time** : Set up the dwell time of the picture and the event information on remote client computer when the emergency or event occurs.
- ④ **Notification Item** : Select the Emergency Monitor transfer method. Emergency Monitor has two types of methods: 'Emergency' and 'Event'. Select a channel to inform the Emergency Monitor for the options motion detection, video loss, alarm-in.
- ⑤ **Emergency Stream Transfer List** : Emergency Monitor accounts can be added, deleted and edited.
Add : Add account in Emergency Monitor list.
Update : Update existing account in the Emergency Monitor list.
Delete : Delete account in Emergency Monitor list.

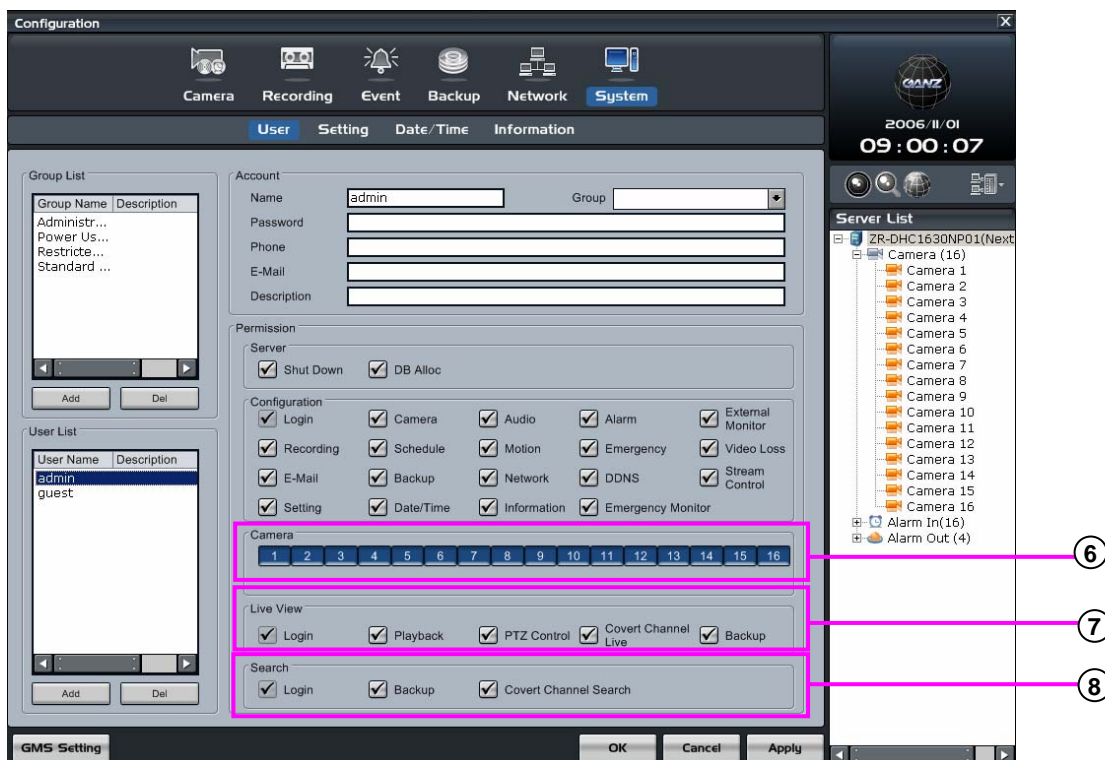
6.6 System

6.6.1 User

Manage users and groups. This function can limit the authority of a user or group to manage the DVR, which enables the user to administer the unit effectively.



- ① **Group list** : Displays current group accounts. Groups can be added or deleted from the list.
- ② **User list** : Displays current user accounts. Users can be added or deleted from the list.
- ③ **Account** : Displays the information of user currently selected and is the area of data input for a new user.
 - Name** : Enter the name of the user.
 - Group** : Select the group category appropriate to the user access level.
 - Password** : Enter the user password.
 - Use Password Expiry Date** : Set up the password expiry function.
 - Password Expiry Date** : Set up the use by date for the password.
 - Advanced Password Expiry Date** : Set up the alarm function before the expired date.
 - Telephone** : Enter the telephone number of the user.
 - E-mail** : Enter the e-mail address of the user.
 - Description** : Enter any addition explanation if required.
- ④ **Server** : Stops the user authorization to interfere with DVR server DB allocation options.
 - Shut down**: Whether the user can exit the DVR software or shutdown the system.
 - DB Alloc** : Whether user can allocate DB changes on the hard disk in the DVR server.
- ⑤ **Configuration** : Allow user authorization to change composition for the DVR system setup.
 - Login** : Allocate authorization to login when in the setup menu.
 - Camera** : Allocate authorization to set up camera options.
 - Audio** : Allocate authorization to set up live audio and recording options.
 - Alarm** : Allocate authorization to set up sensor (alarm-in) and alarm (alarm-out) options.
 - External monitor** : Allocate authorization to set up external monitor options.
 - Recording** : Allocate authorization to set up recording options.
 - Schedule** : Allocate authorization for recording schedule setup.
 - Motion** : Allocate authorization to set up motion detection options.
 - Emergency** : Allocate authorization to emergency setup.
 - Video Loss** : Allow authority to set up video loss.



E-Mail : Allow authority to set up E-mail sending.

Backup : Allow authority to set up backup.

Network : Allocate authorization to set up network connection.

DDNS : Allow authority to set up DDNS.

Stream Control : Allow authority to set up stream control.

Setting : Allocate authorization to set up watermark, recording speed, system restarting and language features.

Data/Time : Allow authority to set up the system data and time.

Information : Allocate authorization to see the system OS, hardware and DVR program information.

Emergency Monitor : Allow authority to set up the emergency notice function.

⑥ **Camera** : Allocate authorization to which cameras can be watched and searched.

⑦ **Live View** : Set user authorization from login, 1ch playback, PTZ control, covert camera and backup functions in live mode.

Login : Allocate authorization to login when in live screen.

Playback : Allocate authorization to use 1ch playback.

PTZ control : Allocate authorization to control PTZ.

Covert Channel Live : Allocate authorization to see covert channels.

Backup : Allocate authorization to make a backup.

⑧ **Search** : Allow user authorization for login, backup, protection camera features in search mode.

Login : Allocate authorization to login when in the search menu.

Backup : Allocate authorization to make a backup.

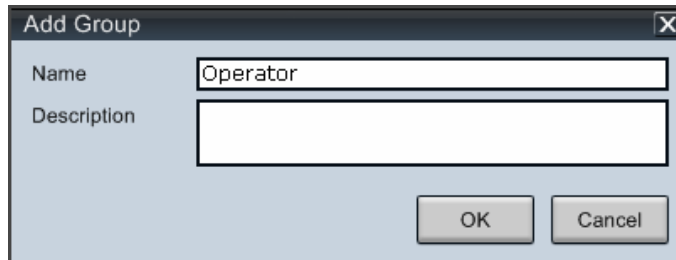
Covert Channel Search : Allocate authorization to see covert channel.

Setup a new group account

1. Click on the “**Add**” button to add a new group name.



2. Input the name and description of the group for account information.

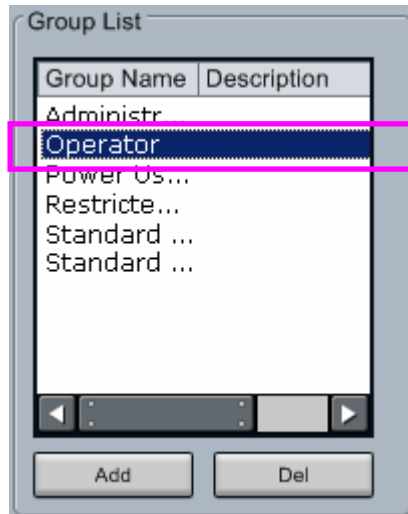


3. If you click on the “**OK**” button, the group will be added to the group list.



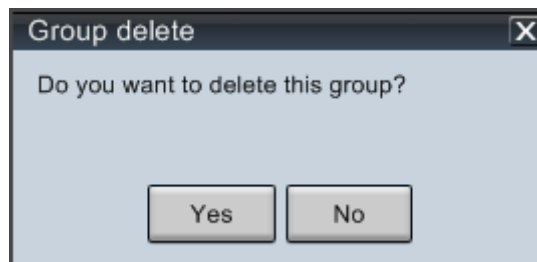
Delete a group account

1. Select the group you wish to delete.



2. Click on the "Del" button.

3. When the message box is shown as below, click on the "Yes" button.



4. Confirm that the group has been deleted from the group list.



Set up a new user account

1. Click on the “Add” button to add a user account.



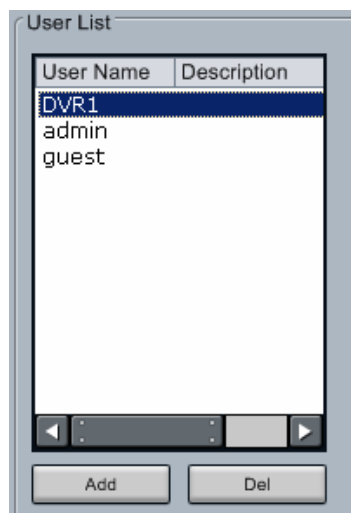
2. Enter the user name, password, group, phone, e-mail and description.

The 'Add User' dialog box contains the following fields and values:

- Name: DVR1
- Password: ****
- Group: Standard Users
- Phone: 011-123-1234
- E-Mail: DVR@ganz.jp
- Description: (empty)

At the bottom are 'OK' and 'Cancel' buttons.

3. Click on the “OK” button and the user will be added to the user list.

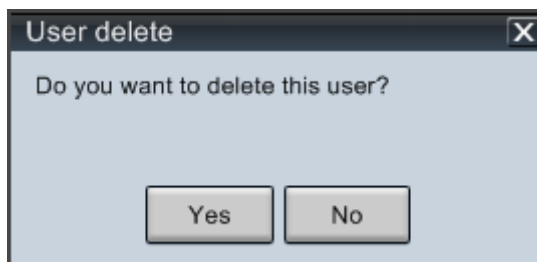


Delete a user account

1. Select the user name you wish to delete.



2. Click on the "Del" button.
3. When the message is shown as below, click on the "Yes" button.

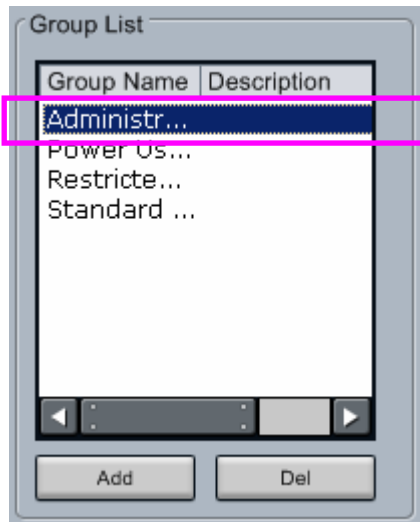


4. You can confirm that the user account has been deleted in the user list.

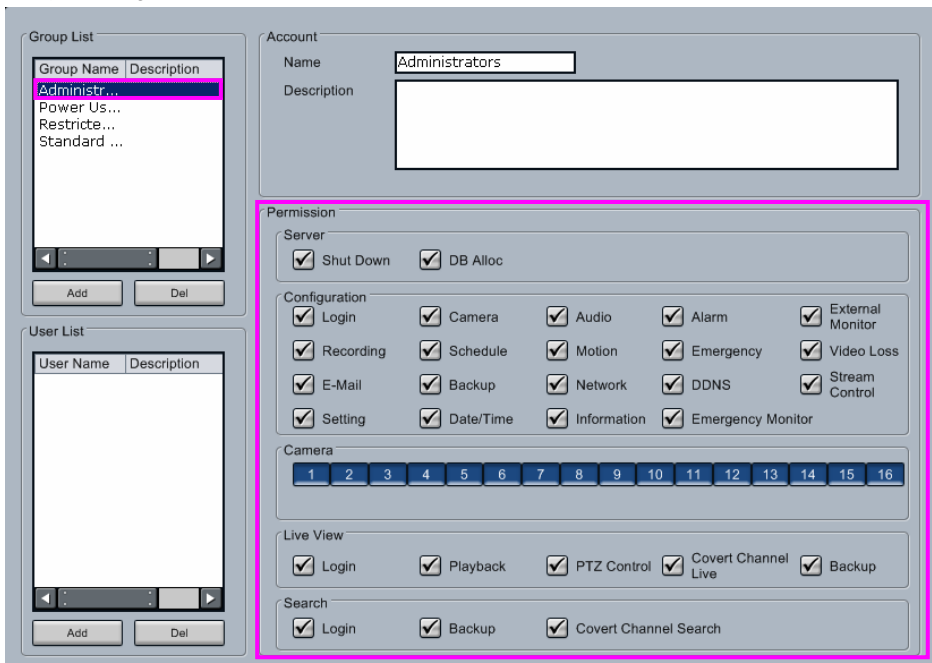


Set up authorization level for group accounts

1. Select the group for which you wish to allocate authorization changes in the group list.



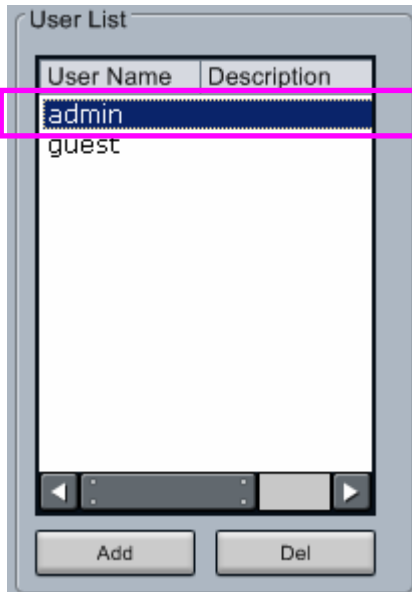
2. Adjust the group authorization in the permission menus.



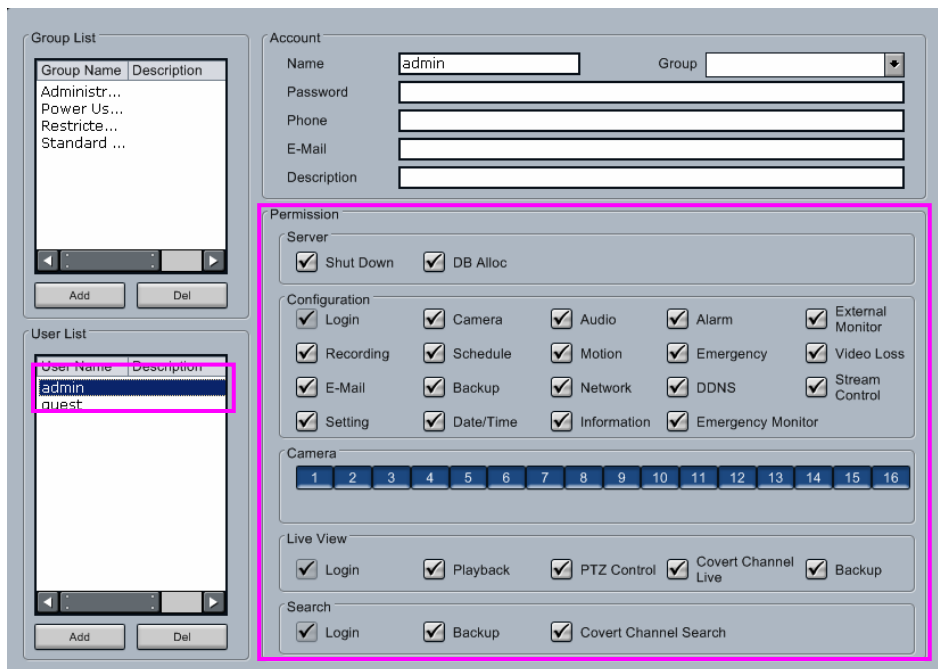
3. Click on the “OK” button to save the changes in authorization.

Set up individual user account authorization level

1. Select the user account for which you wish to configure authorization changes.



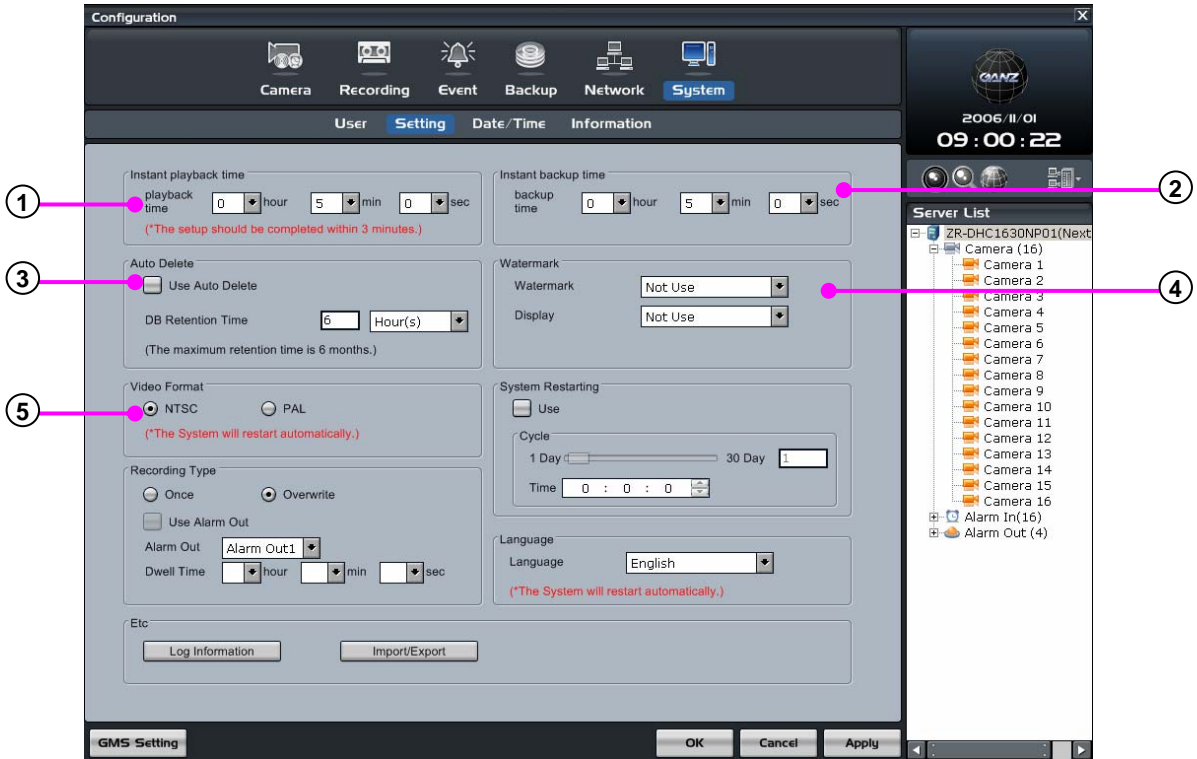
2. Adjust the user authorization in the permission menus.



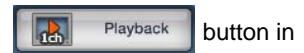
3. Click on the “OK” button to save the changes in authorization.

6.6.2 Settings

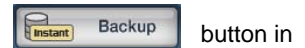
Configure the settings for instant playback, watermark, video format, recording type, system restarting and language. Also view the system log and upgrade the software.



① **Instant playback time** : Set up the playback time. When you click on the the live screen, the playback will start by the set time period in this menu.



② **Instant backup time** : Setup the instant backup time. When you click on the the live screen, the playback will start by the set time period in the menu.



③ **Auto Delete** : This is the auto delete data function after DB retention time.

Use Auto Delete : Set up auto delete function.

DB Retention Time : Set up DB retention time.

④ **Watermark** : Set whether the watermark feature is encrypted with recorded data.

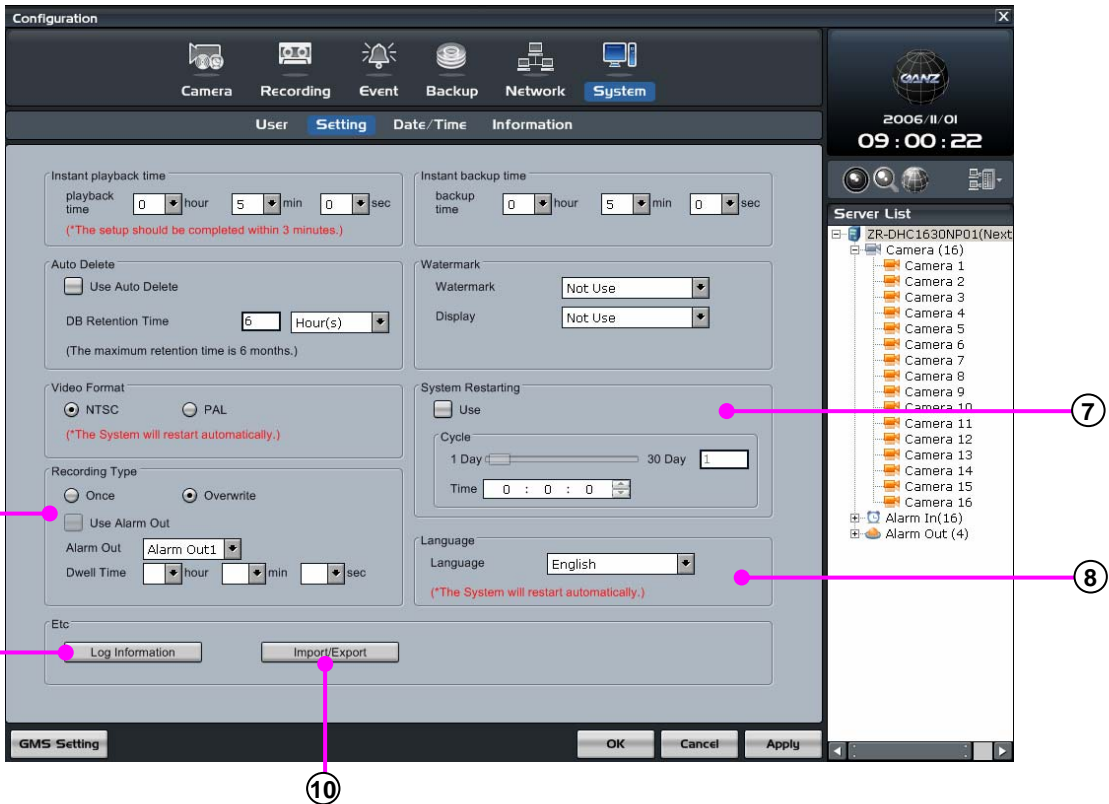
Watermark : Enable or disable watermark feature.

Display : When recorded picture is played back, the display will indicate that a watermark is used.

[Note]

- Watermark encrypts the data in such a way that when anyone tries to alter the picture data, the GANZ system can detect the changes. This prevents forgery or tampering video given for evidence.

⑤ **Video format** : Select the picture format type which the camera uses. You can select between NTSC or PAL formats, please reboot the DVR after changing the video format.



⑥ **Recording type** : Choose between once and cycle type recording. If you choose the once type, the recording will stop when the hard disk is full. If you choose the cycle type, the recording will be continually loop the HDD storage. An alarm output can be used to indicate when the HDD is full.

⑦ **System restarting** : You can set the system to restart as a maintenance precaution. Restarting the system lets the computer reconfigure files and so reduces the prevention of system damage through file errors. (Recommended reboot once a week)

Use : Enable or disable the restarting feature.

Cycle : Enter the cycle period (day) of system restarting .

Time : Enter the system restarting time.

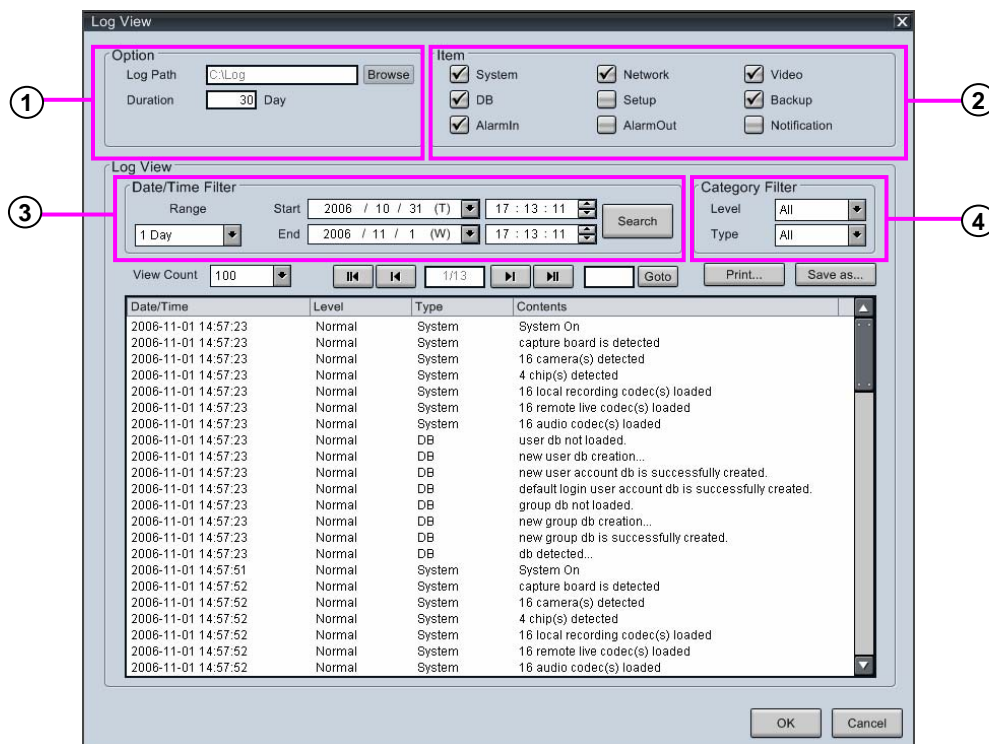
⑧ **Languages** : Select an appropriate language for the country of installation.

⑨ **Log information** : Search and view the system log information.

⑩ **Import/Export** : Import or export the configuration file.

Log information

Log information creates a record of all operations performed by the DVR system. If there is an event, system change or abnormal operation, this data can be located in the log.



① **Option** : Here, you can set up the log path and duration.

Log path : Indicates the path on the HDD where the log data will be stored. Click on the “**Browse**” button, then select the path where the log data will be stored.

Duration : Enter the log data retention period. Set the duration for the log file data to be stored by the DVR system. Once this duration period has ended, the log data will be deleted.

② **Item** : Select the categories that you wish to save in the log.

System : Displays system information details.

Network : Displays the remote program type, time of program connection and network status.

Video : Displays the status of the video and display.

DB : Displays information about the DB status.

Setup : Displays settings changed in the setup by which user.

Backup : Displays backup information about both local and remote backup.

Alarm-In : Alarm-in event detail, displays the channel and time.

Alarm-Out : Alarm-out event detail, displays the channel and time.

Notification : Displays the contents of the emergency notification.

③ **Date/time filter** : Set the scope of the log data displayed in the search.

Range : Select the search range by the number of days.

Start : Select a start date to search.

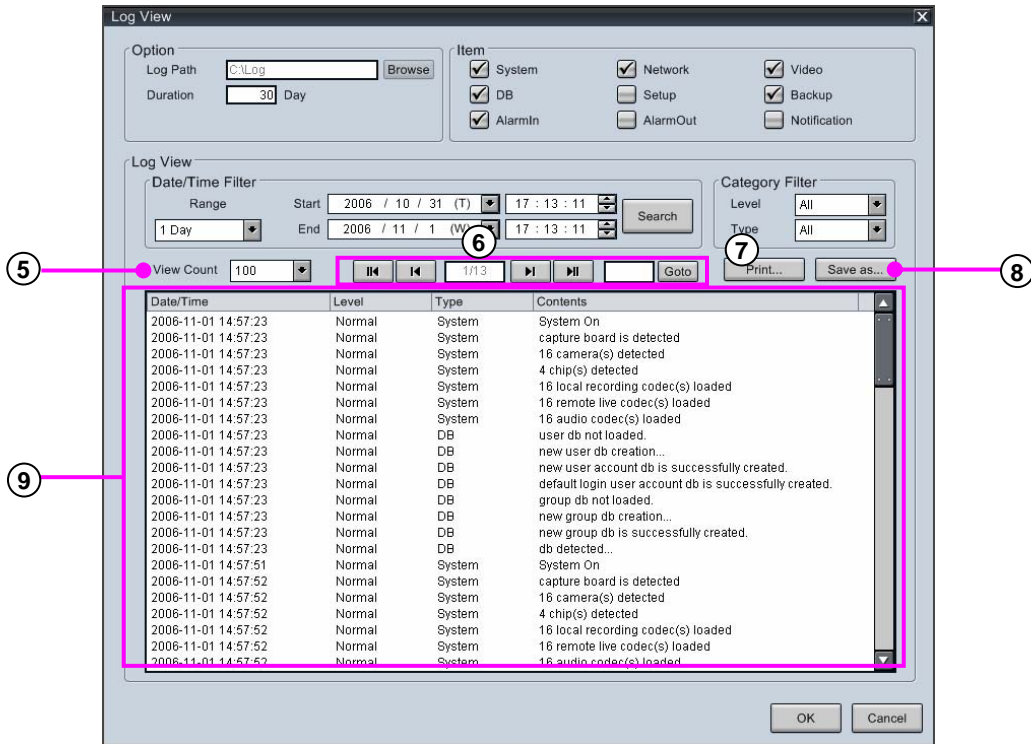
End : Select an end date for the search

Search : Click on the “**Search**” button, then the data will be displayed between set parameters.

④ **Category filter** : Filter the data by level and type.

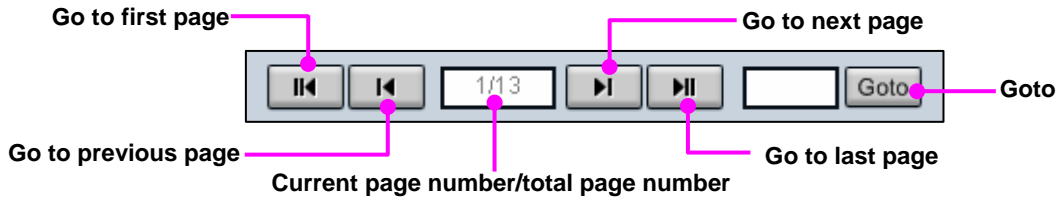
Level : Select to show a specific level in the search.

Type : Select to show a specific type in the search.



⑤ **View count** : Select to limit the amount of log data on the display screen.

⑥ **Page control** : Use to select between pages within a log search.

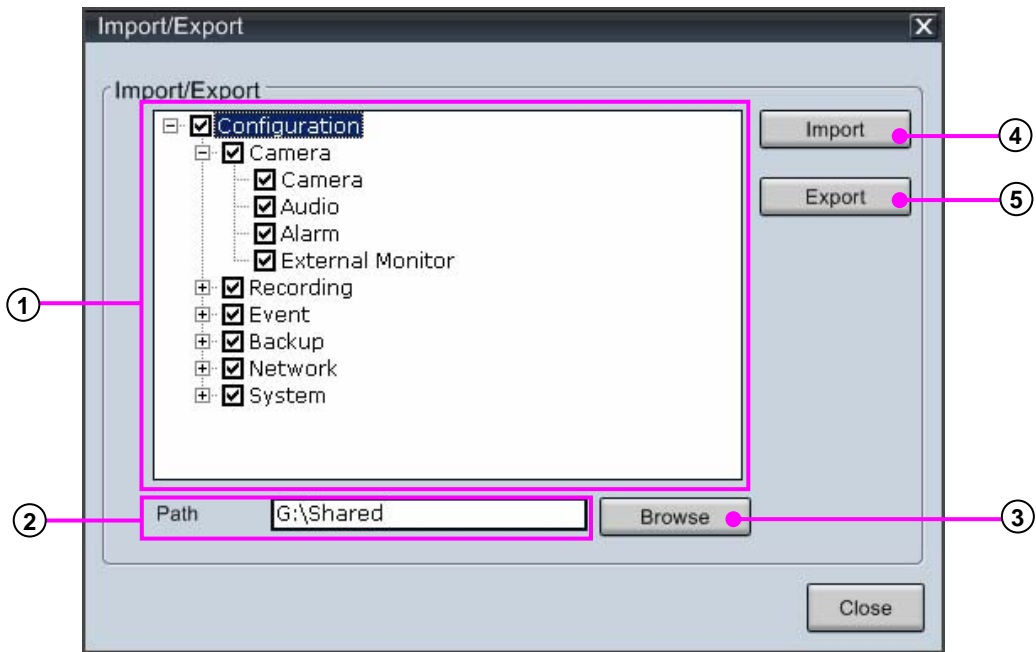


⑦ **Print** : Print log on printer.

⑧ **Save as** : Save log data to another media.

⑨ **Log list display** : Displays the log information.

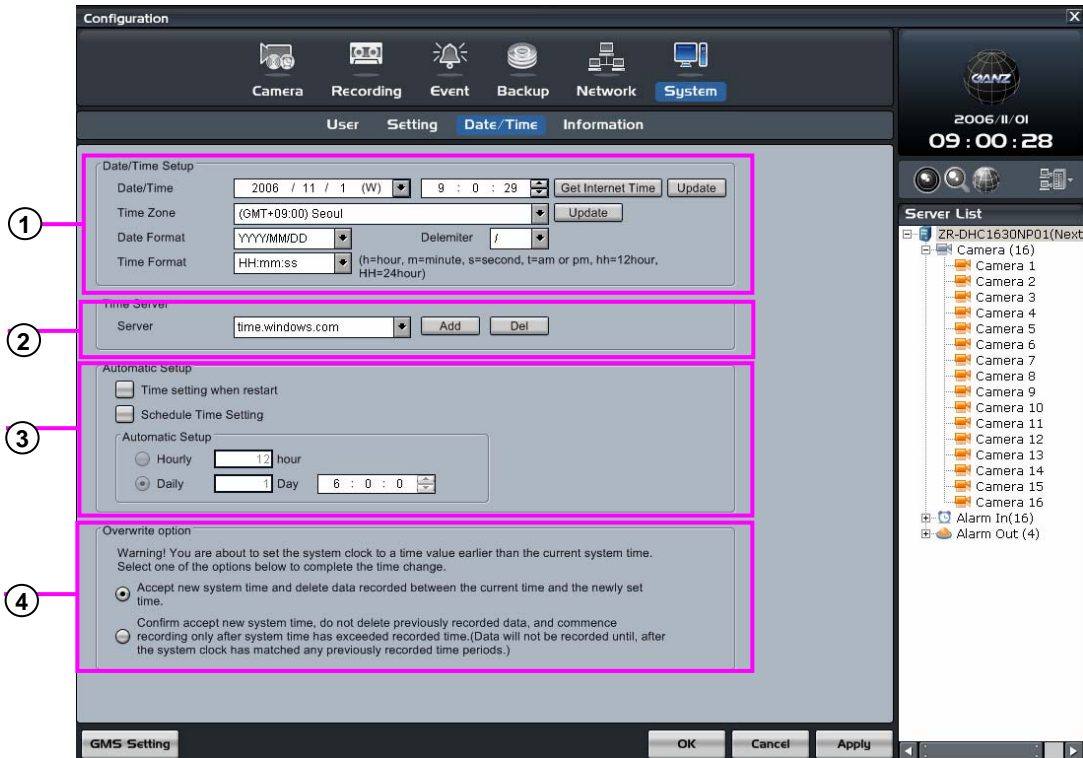
Import/export Configuration



- ① **System Configuration list** : Displays the system setup configuration. After you select configuration, click on the Import or Export button.
- ② **Path** : Displays location of system configuration file.
- ③ **Browse** : Click on the “**Browse**” button to select a folder to save.
- ④ **Import** : Import the configuration file to another DVR.
- ⑤ **Export** : Export the configuration file from another DVR.

6.6.3 Date/time

Set the current date and time of DVR system, configure the local time zone and change the current time and date or synchronize the system time by the NTP server.



① **Date/Time Setup** : Set up the time/date, time zone, date and time format

② **Time Server** : Input the address of the NTP (Network Time Server) server. After entering the NTP server address, click on the “Add” button to add the NTP server to the list. If you want to delete the NTP address, select the NTP server for removal and click on the “Del” button.

③ **Automatic setup** : Set the time for synchronizing the time automatically.

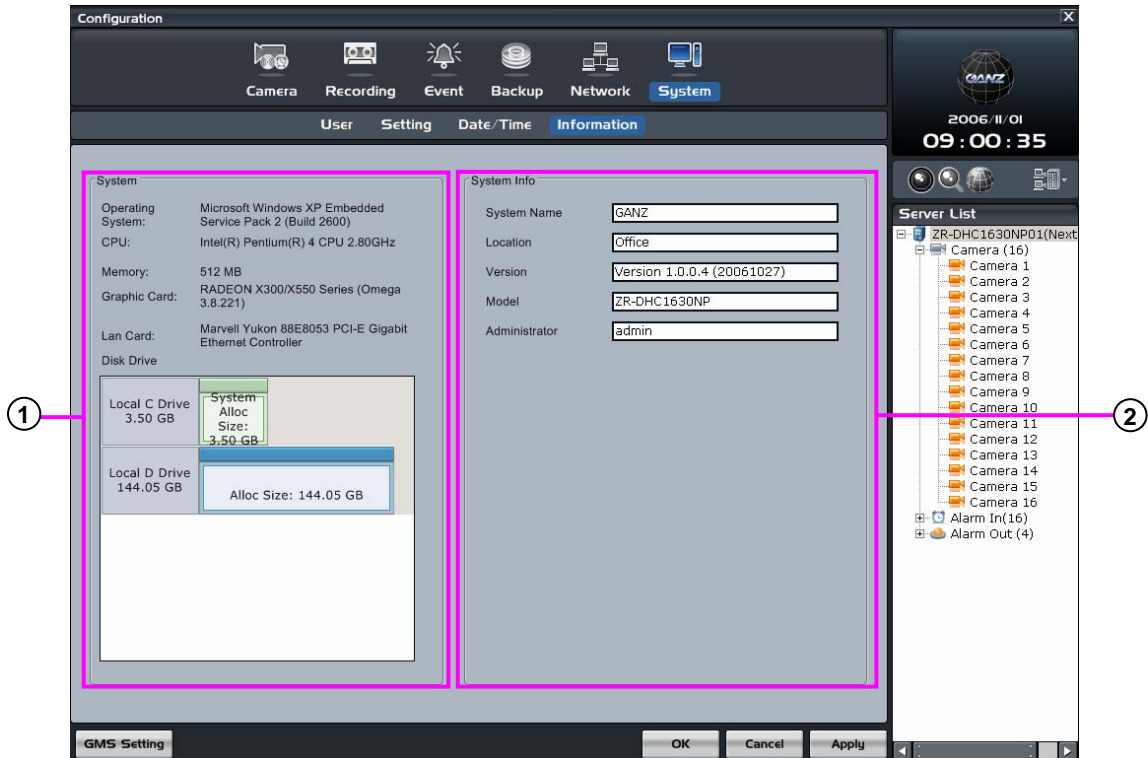
Time setting when reboot : It synchronizes with the NTP server and sets the time at reboot .

Schedule time setting : It synchronizes with the NTP server and sets the time at a scheduled time.

④ **Overwrite option** : Set up the data overwrite properties when the time is changed. Select to either overwrite if system time is before the backed up data or to hold start writing once new time reaches the end of the previously recorded data.

6.6.4 Information

Displays the system information, disk space allocation and A/S history.



① **System** : Displays the OS version, processor type, memory, LAN card, graphic card and HDD details.

② **System information** : Displays the name of DVR, installed details, DVR software version, model name and A/S history.

7. Emergency Monitor

7.1 Opening Emergency Monitor

The Emergency Monitor can receive the DVR status (motion, video loss, alarm-in) with pictures from the DVRs throughout the network.

Double click on the “Emergency Monitor” icon to run the Emergency Monitor program.



7.2 Emergency Monitor screen



① **View Panel** : Displays pictures from the DVR corresponding to the emergency event.

② **Connection List** : Displays the connected DVR information and event.

Appendix

1. Supported CD/DVD-RW Drive List

* CD/DVD-R/RW Drive not in the list might not be supported.

Company	Model
Acer	CRW4432A, CRW6432A, CRW8432A, CRW1032A, CRW1832A, CRW1208A, CRW1610A, CRW2010A, CRW2410A, CRW3210A, CRW4012P, CRW4406EU, CRW6406EU
AOPEN	CRW1232, CRW1232Pro, CRW1632, CRW2040, CRW2440
hp	8100i, 8110i, 8200i, 8210i, 8200e, 8210e, 8220e, 8230e, 8270e, 9100i, 9110i, 9140i, 9200i, 9210i, 9200e, 9210e, 9300i, 9310i, 9340i, 9350i, 9500i, 9510i, 9600si, 9600se, 9700i, 9710i, 9900ci, DVD Writer 100j, DVD Writer 200j, DVD Writer 300c, DVD Writer 300n, DVD Writer 400c, DVD Writer 420n
imation	CD-R 8x20, CD-R 4x4x20, CD-R 8x2x20
iomega	ZIPCD 650, ZIPCD 4x4x24, ZIPCD 8x4x32, ZIPCD 12x4x32, ZIPCD 12x10x32
LG	CED-8120B, GCA-4040N, GCC-4120B, GCC-4080N, GCE-8160B, GCE-8521B, GCE-8525B, GMA-4020B, GMA-4040B, GSA-4080B, GSA-4081B, GSA-4082B, GSA-4120B
LITEON	LDW-451S, LTC-48161H, LTR-12101B, LTR-12102B, LTR-16101B, LTR-16102B, LTR-24102B, LTR-32123S, LTR-40125S, LTR-48125W, LTR-52246S, LTR-52327S
National Panasonic	CW-7502, CW-7503, CW-7582, CW-7585, CW-7586, CW-8123, CW-8124, SW-9571, SW-9572, SW-9573, SW-9581, SW-9582, SW-9583, UJDA310, UJDA320, UJDA330, UJDA340, UJDA710, UJDA720, UJDA730, UJDA740, UJ815, UJ825, UJ835, UJ845
Memorex	CRW-6424, MCW6432AI, MCW8432AI, CD-RW12432, MCW1210AI, MCW1210DVD
MITSUSMI	CR-4801TE, CR-4802TE, CR-4804TE, CR-4805TE, CR-4808TE, CR-4809TE, CR-485CTE, DW-7801TE, DW-7802TE

Company	Model
NEC	CB-2100A, ND-1100A, ND-1200A, ND-1300A, ND-2100A, ND-2100AD, ND-2300A, ND-2500A, ND-2500A2, ND-2510A, ND-3100A, ND-3500A, ND-5000A, ND-5100A, ND-5200A, ND-5300A, ND-5500A, NR-7700A, NR-7800A, NR-7900A, NR-8400A, NR-8500A, NR-9100A, NR-9200A, NR-9300A
PHILIPS	CDD3801, CDD4201, CDD4401, CDD4401, CDD4801, CDRW2010K, DVD8301, DVD8421, DVDRW1208, DVDRW228, DVDRW416N, PCRW1208K, RWDV2010K
Pioneer	DVR-103, DVR-104, DVR-105, DVR-106, DVR-106D, DVR-107, DVR-108, DVR-109, DVR-S303, DVR-S502
PLEXTOR	PREMIUM, PX-208U, PX-230A, PX-504A, PX-504UF, PX-708A, PX-708A2, PX-708UF, PX-708UF2, PX-712A, PX-712SA, PX-712UF, PX-716A, PX-716SA, PX-716UF, PX-R412C, PX-R820T, PX-S2410T, PX-S88T, PX-S88TU, PX-W124TS, PX-W1210TA, PX-W1210TS, PX-W1610TA, PX-W2410TA, PX-W4012S, PX-W4012TA, PX-W4012TU, PX-W4220T, PX-W4824TA, PX-W4824TU, PX-W5224TA, PX-W8220T, PX-W8432T
RIOCH	MP5120A, MP5122E, MP5125A, MP7040A, MP7040S, MP7060A, MP7060S, MP7063A, MP7080A, MP7083A, MP7120A, MP7125A, MP7163A, MP7200A, MP7240A, MP7320A, MP7400A, MP8165A, MP9060A, MP9120A, MP9200A, RW5120A, RW5125A, RW8165A
SAMSUNG	SN-324B, SW-240, SW-352, SW-352B
SANYO	CRD-BP3, CED-BP4, CRD-BP5, CRD-BP900P, CRD-BP1300P, CRD-BP1400P, CRD-BP1500P, CRD-BP1600P, CRD-BP1500U, CRD-BP1700P

Company	Model
SONY	CRX100E, CRX120E, CRX140S, CRX140E, CRX145S, CEX145E, CRX160S, CRX160E, CRX175E, CRX185E, CRX195E, CRX200E, CRX215E, CRX75A, CRX75U, CRX85A, CRX85U, DRU110A, DRU120A, DRU-500A, DRU-500UL, DRU-510A, DRU-510UL, DRU-530A, DW-U12A
TDK	DVDRW0404N, VeloCD8432, VeloCD121032, VeloCD161040, VeloCD161040, VeloCD241040, VeloCD241040, VeloCD321040, VeloCD401248
TEAC	CD-W224E, CD-W24E, CD-W28E, CD-RW280PU, CD-W54E, CD-W58E, CD-W512EB, CD-512SB, CD-W516EB, CD-W524EB, CD-W540E, CD-W548E, DV-50E, DW-224E, DW-28E, DW-285PU
WALTEC	WT2082, WT3284, Shuttle, Celerus, Saurus, WT128, Raptor Red, T-REX, T-REX EIDE, Aladar, Titan, Megalus
YAMAHA	CRW-4416S, CRW-4416E, CRW-6416S, CRW-8424S, CRW-8424E, CRW-8824S, CRW-8824E, CRW-2100S, CRW-2100E, CRW-2200S, CRW-2200E, CRW-3200SZ, CRW-3200EZ, CRW-3200SXZ, CRW-3200FXZ, CRW-3200UXZ, CRW-70, CRW-F1, CRW-F1E, CRW-F1DX, CRW-F1SX



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