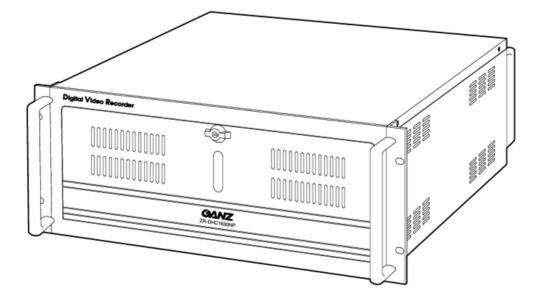
IGCH DIGITAL VIDEO RECORDER **ZR-DHC1630NP** GMS MANUAL

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







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



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

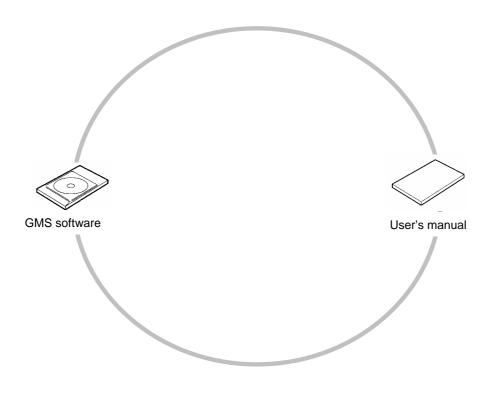


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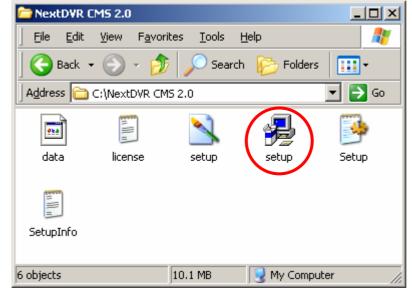
Appendix

Supported CD/DVD-RW Drive List111



1. GMS Application Installation

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







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.

😼 GMS Install			- 🗆 ×
Select installation folder. Select a installation folder for 'GMS'			2
Setup will install 'GMS' in the following folder. To install to this folder, Click 'Next' , To install t another folder.	o different folder	, click 'Browse' (and select
C: \GMS			Browse(R)
	Back(B)	Next(N)	Cancel(C)

(5) This will start the installation process.

😼 GMS Install			- 🗆 ×
Copy files Copying files.			2
Installing : C:\GMS\res\cms\img\emp_iter	m.png		
	Back(B)	Next(N)	Cancel(C)



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



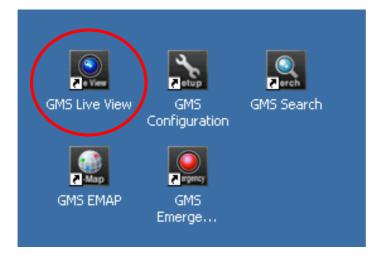
(7) "GMS Live View" will appear on the desktop.





2. GMS Application Execution

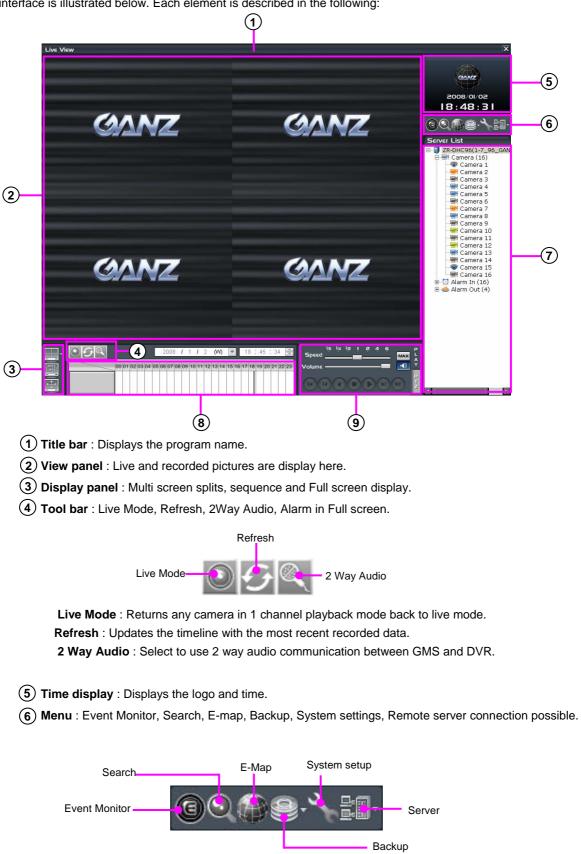
1 Double click on the "GMS Live View" icon to run the GMS Program.





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:



O Server list : Shows resource information on the camera, alarm-in and alarm-out for each server.

(8) **Timeline panel** : Displays the recording time of the selected channel.

The recorded time is shown in the graph (24-hour clock).

(9) 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.



2. Click on the "Connection" button to open Server Connect.

- 🗌 📳 All Groups	Group :	GANZ	Connec
			OK

3. Enter the group name.

Group : GANZ	
--------------	--

4. Click on the "Add" button to add the group to the server list.

Group :	GANZ	Connect
Name :		
Server Type :	ZR-DHC Series	•
Network Type :	Lan	*
Address :		5
Port :	12000	
Upgrade Port :	12004	
Auto Logir	1	
ID :		
Password :		ОК
		Cancel



Add DVR remote server

1. Select the group to be registered.

Server Connect Server List :	_		2
	Group : Name : Server Type : Network Type : Address : Port : Upgrade Port : Upgrade Port : ID : Password :	GANZ ZR-DHC Series Lan 12000 12004	Connect
Import Export	Add	Update Del	

2. Enter the server connect information.

	Server Connect			X	
	Server List .	·			
	GANZ	Group :	GANZ	Connect	(d)
\bigcirc		Name :	ZR-DHC1630NP		
(a)		Server Type :	ZR-DHC Series		
		Network Type :	Lan 🔹		
		Address :	210.121.177.96		
		Port :	12000		
		Upgrade Port :	12004		
		🖌 🖌 Auto Logir	1		
		ID :	admin		
		Password :		ОК	
		r dosword .			
		L		Cancel	
b -	Import Export	Add	Update Del		
Ŭ					
	c				

- (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.



Herein All Groups	Group :	GANZ	Connec	
	Name :	ZR-DHC1630NP		
	Server Type :			
	Network Type :	Lan 🔶		
	Address :	210.121.177.96		
	Port :	12000		
	Upgrade Port :	12004		
	M Auto Logi	n		
	ID :	admin 🔶 🗕		
	Password :			
	l		Cancel	
Import Export	Add	Update Del		

- **(f)** Server Type : Select the server type according to the DVR type.
- **(g)** Network Type : Select the network type.
- (h) Address : Enter the IP address or domain name of the DVR server to connect.
- (i) **Port** : Enter the network port number to communicate with the GMS and DVR servers.
- (j) **Upgrade Port** : Input the network port number by which to upgrade DVR software.
- (\mathbf{k}) ID : Enter the administrator ID of the DVR server.
- () **Password** : Enter the password of the DVR server.
- (m) Auto Login : Check to log-in automatically when GMS is started.
- (n) Add : Click on the "Add" button to add a group or server.
- **O Update** : Click on the "Update" button to update revised server information.
- **p** Del : Click on the "Del" button to delete the server from the server list.
- **(g)** 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.

Server Connect			X
Server List :			2.1145
E-VI All Groups	Group :	GANZ	Connect
ZR-DHC1630N	Name :	ZR-DHC1630NP	
	Server Type :	ZR-DHC Series	
	Network Type :	Lan	
	Address :	210.121.177.96	
	Port :	12000	
	Upgrade Port :	12004	
	Auto Login	·	
	ID :	admin	
	Password :		ОК
			Cancel
Import Export	Add	Update Del	

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



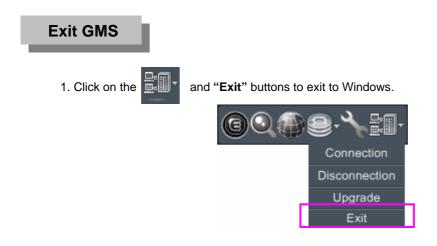




2. Select the DVR server you wish to disconnect.

Ser	rver Disconnect		X
	Server Name	Address	
	GANZ	210.121.177.64	
		Disconnect	se

- 3. Click on the "Disconnect" button to disconnect the DVR server.
- 4. Click on the "Close" button to close the windows.





3.3 Log-in & Log-out

To use DVR server which is connected to Server List, User should get a use permission by entering ID and Password. Resource information without login is protected.



- 1. After choosing DVR Server which user want to log in on Server list, Push right button on mouse.
- 2. Click "Login" button when popup is displayed.



3. Enter Password and ID when following log in message is displayed.

Login		X
ID	admin	
Password		
	OK Cancel	

Log-Out

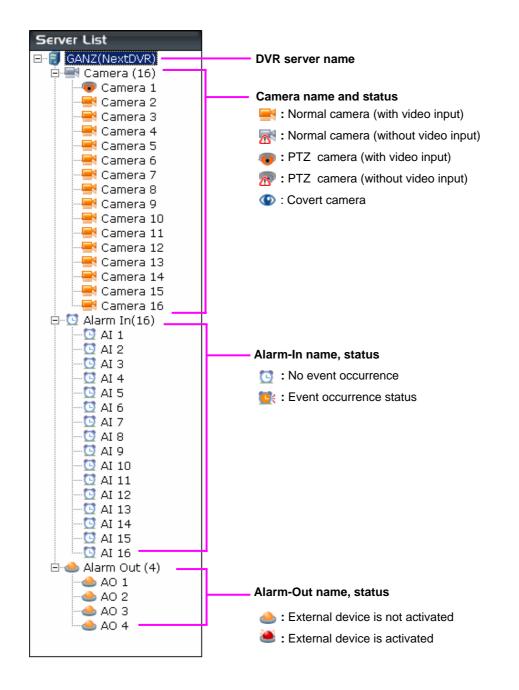
- 1. After choosing DVR Server which user want to logout on Server List, Push right button on mouse.
- 2. Click "Logout" button when popup is displayed.





3.4 Server list tree

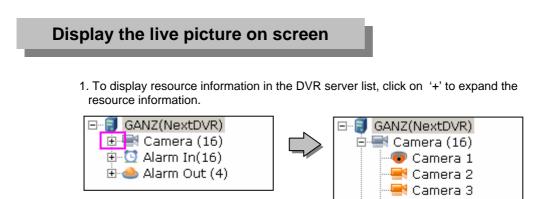
The server list tree displays the status of the cameras, alarm-in and alarm-out devices in the form of a tree structure.





3.5 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.

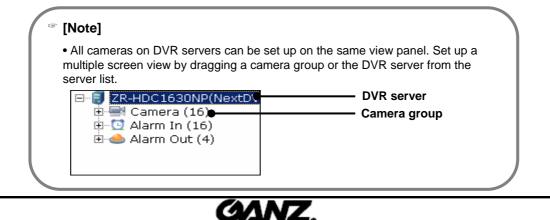


2. If you drag the camera and move to another DVR server in the DVR server list, the camera picture will be shown at another site.

 Camera 4



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

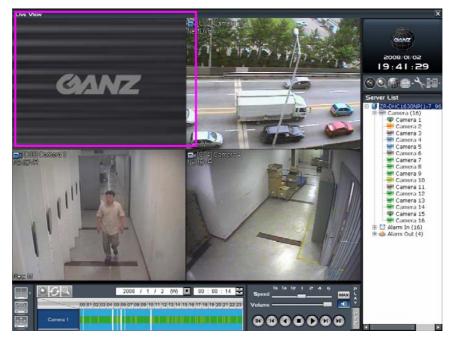


Remove live picture from screen

- 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.





3.6 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

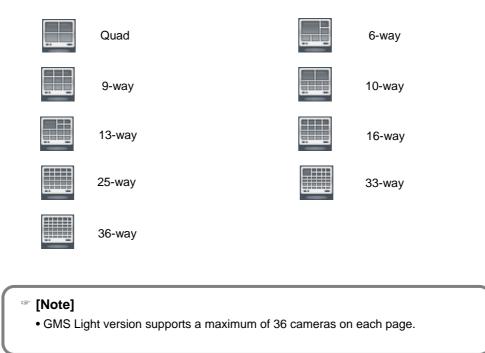
1. To divide the view panel, click on the



button. It will be displayed as follows.



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



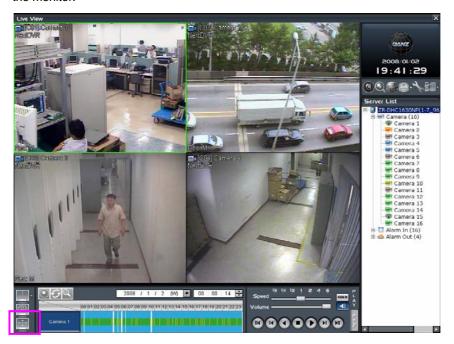


3.7 Full-screen enlargement

Enlarge to full screen on the monitor

1. Click on the the monitor.

button to enlarge the picture to full screen without a frame on



2. Only video can be displayed in full screen.

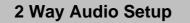


3. Click on the left mouse button to exit the full screen display.

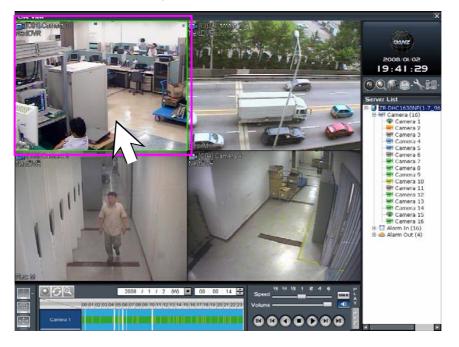


3.8 2 Way Audio

2 Way Audio allows communication between GMS and DVR sites. When 2 Way Audio is activated, simultaneously you can listen to the signal from the DVR though a speaker and communicate with a microphone.



1. In Live View select the image of camera you want to access.



2. Select the two way audio button and then the software will try to connect GMS and DVR. Once the connection is made the window appear as below.



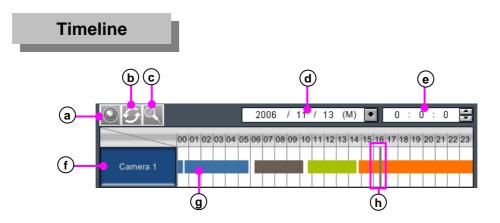
[Note]

- •2 Way Audio function is only supported on ZR-DHC1630NP/ZR-DHC830NP.
- \bullet The right speaker on the DVR is linked to the 2 way audio function and the left speaker will output live or playback Audio.
- •The 2 Way Audio function cannot work unless GMS is connected to the DVR.



3.9 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.



- (a) Live mode : Returns any camera in 1 channel playback mode back to live mode.
- **b** Refresh : Updates the timeline with the most recent recorded data
- **c 2Way Audio** : Select to use 2 way audio communication between GMS and DVR.
- **d** Date selection : Select the year, month and day.
- (e) Time selection : Manual input for time.
- (f) **Camera** : Camera selected for playback.
- (g) Recorded data bar : Displays the recording type and time details as a bar graph.

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

(h) **Timeline bar** : Designates the 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 f	or sea	rch	
1. Click on	the 💽	button to dis	play the calendar.
	2006 /	6 / 15 (1	ſHU) 💽

2. Select the date on the calendar.

		I	20) 006 /	11	►	►						
	S	М	Т	W	Т	F	S						
				1	2	3	4						
	5	6	7	8	9	10	11						
	12	13	14	15	16	17	18						
	19	20	21	22	23	24	25						
	26	27	28	29	30								
						_							
				Toda	у								
		200)6 /	11	/ 13	B (N	l) 🔻	I	0	: 0	: (÷
00 01 02 03	04 05	06 0	7 08 0	9 10	11 13	2 13	14 15	16 1	7 18	19 2	0 21	22	23
Camera 1													

3. Enter the time you wish to view.

13 : 5	3 : 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.

O €Q							_	_		/ 1										2	2	: 1	2	÷
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Camera 1		•••			► ^	7			••••							••••	••••	•••		••••				••••

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

				/ 13 (M)		: 22 : 13	
	03:10	03:15	03:20	03:25	03:30	03:35	03
Camera 1				7			
			V				

Reduce timeline

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

			06 / 11 /			: 22 : 12	2 韋
	03:10	03:15	03:20	03:25	03:30	03:35	03
Camera 1				2			

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

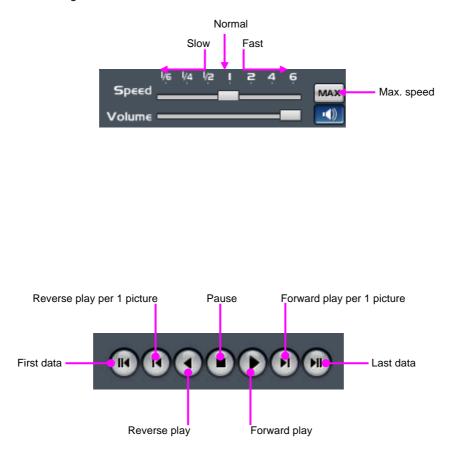
© € €							2	000	6	/ 1	1	/	13	(N	N)	٠		3	} :	2	2 :	1	2	÷
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Camera 1					\wedge	7	-			•••		•••					••••			•••				



3.10 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.



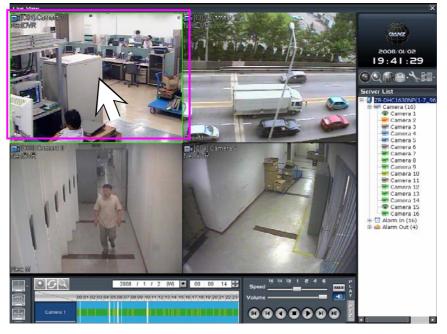


3.11 1 Channel playback

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.

₽ €	l	2006 / 11	/13 (M) 💌	3 : 22 : 12 🗲	-6-4-21246 U
0	0 01 02 03 04 0	5 06 07 08 09 10	11 12 13 14 15 16	17 18 19 20 21 22 23	
Camera 1					

- 3. Click on "Camera 1".
- 4. Select the time and date .

2006 / 11 / 13 (M) 3 : 22 : 12 : <td:< td=""> : : :</td:<>	Speed -6 -4 -2 2 4 6 MAX Volume
5. If you click on the D button, the recorded file	e will be played in the view panel.
6. To switch to live viewing mode, click on the	button.
2006 / 11 / 13 (M) 3 : 22 : 12 : 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Camera 1	Speed -6 -4 -2 2 4 6 MAX Volume



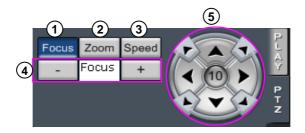
3.12 PTZ control

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.



3.13 Backup

How to backup

- 2. Click on the

 Imagement

 Imagement

 Imagement
- 1. Select the channel to backup on screen.

3. Click on the "Backup" button to open the backup dialogue window.

		Destination		
ange			Lavalliat	
Start	2008 / 1 / 2 (W) 💌	Server	LocalHost	٠
	00 : 00 : 14 🗲	Media	HDD	٠
End	2008 / 1 / 2 (VV) 💌	Device	CA	*
	00 : 01 : 14 🗲	Drive(s)	CA	Path
			Multiple Drives Dr	ive Selection
amera				
Cam 1	Cam 2 Cam 3 Cam 4			
Cam 5	Cam 6 Cam 7 Cam 8	Option		
Cam 9	Cam 10 Cam 11 Cam 12	Continuou	is 🖌 Motion	
Ξ		Alarm	Fvent	
Cam 13	Cam 14 Cam 15 Cam 16	Pre Rec	Audio	
ze		Pie Rec	Audio	
Estimated S	ize: 12.3 MB Calculation			



4. E	Enter detailed information for the back	up.	
1	Backup Format OTime QAVI QSFX QBMP QJPEG	Source Server ZR-DHC1630NP	5
(2)	Range Start 2008 1 1 2 (W) * 00 : 00 : 14 *	Destination Server LocalHost Media HDD Device C:1	-6
	End 2008 / 1 / 2 (W) 00 : 01 : 14 Camera Camera Cam 1 Cam 2 Cam 3 Cam 4	Drive(s) CA Path Multiple Drives Drive Selection	
3—	Cam 5 Cam 6 Cam 7 Cam 8 Cam 9 Cam 10 Cam 11 Cam 12 Cam 13 Cam 14 Cam 15 Cam 16	Option ✓ Continuous ✓ Alarm ✓ Pre Rec ✓ Audio	(7)
4	Size Estimated Size: 12.3 MB Calculation	OK Cancel	Ŭ

(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.

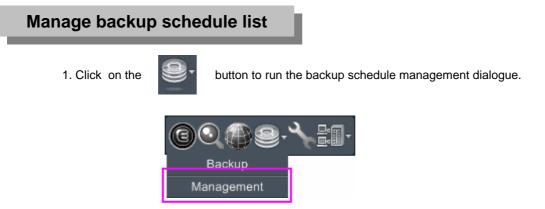
5. Click on the "**OK**" button to start the backup.

[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.



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

Backup Schedule List : Type Start Time Time Range Format Schedule Instant Next Time 2007-07-06 / 09:59:13.000 ~ 2007-07-06 / 10:00: Time Running Running Running	Backup						X
Instant Next Time Running If ratant Next Time Running	Backup Sche	dule List :					
formation : Type : Instant-Time, Device : HDD-C:					Schedule		
rype i instant-fille, bevice i hbb-c.t,	Instant	Jext Time	2007-07-06 / 09:59:13.000 ~ 2007-07-06	/ 10:00: Time		Running	
Time Range : 2007-07-06 / 09:59:13.000 ~ 2007-07-06 / 10:00:13.000,	Ciformation :	Type : Instan	-Time, Device : HDD-C:				Priority Up

- (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.



(7) Safety Remove Hardware : Click "Safety Remove Hardware" button to remove UBS device which is connected with the system. If the window below displays, click the device to remove in the list and then click "Remove" button.

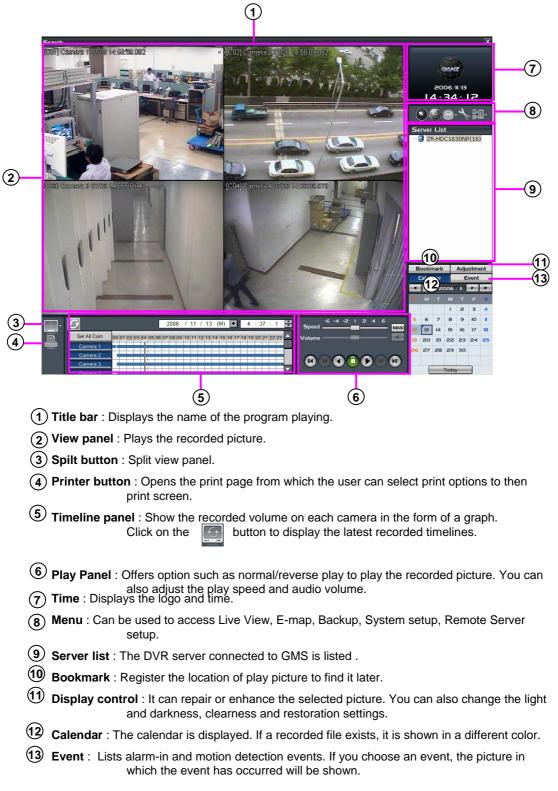
Š	Safely Re	emove Hardware	X
	Index	Drive	Volume
	1	[H:\]	removable disk
			Remove Close



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:





4.2 Allocate the remote DVR server on screen

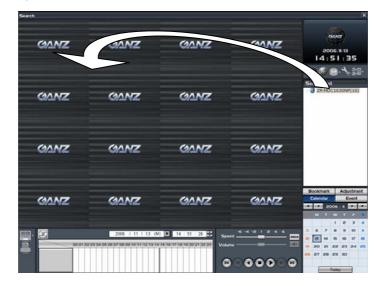
Allocate the DVR server in the network to the view panel to search the DVR server's picture..

|--|

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.

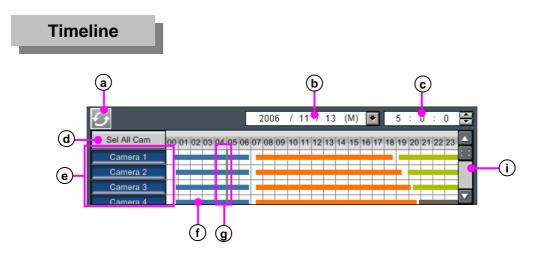


4. Repeat these steps to search another DVR server.



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.



- **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.

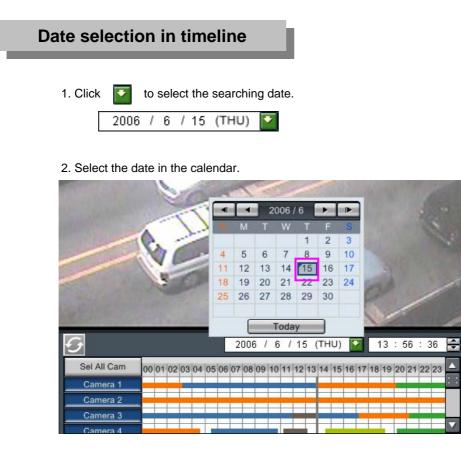
Orange	Continuous
Blue	Motion
Gray	Object watch
Green	Alarm-In
Yellowish Green	Pre rec
Violet	ATM/POS
Bluish green	Audio

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

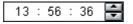
(i) Scroll : Used to move within the list of cameras.



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.



2. Enter the time you wish to search.

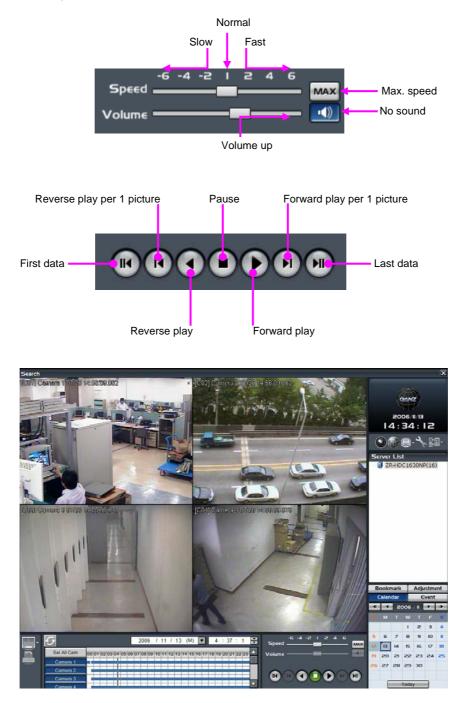




4.4 Playback control

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

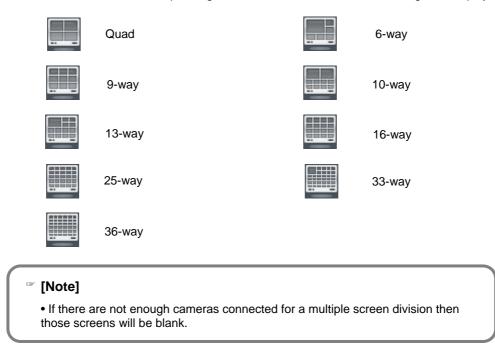
Select screen division

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.





4.6 Printing

Printing

1. Select the searching picture you wish to print.

Search	X
	x accore == 15:14:07 Server Ust == Pari+OCL0504R(10)
2006 (11 / 12 (M) S 1 7 24 Spree (4.4.42) 2.4.4 Spree (4.4.42) 2	Bookmark Adjustment Calindaria Event is 1 2 1 is 2 3 4 is 6 7 9 10 2 is 1 8 5 6 7 10 2 is 1 8 5 6 7 10 2 is 1 8 6 7 10 2 2 is 1 8 6 7 10 2 2 is 1 8 6 7 10 3 4 is 1 8 6 7 10 3
2. Click to print.	20 27 28 29 30
Name: HP DeskJet 850C Properties Status: Default printer; Ready Type: HP DeskJet 850C Where: LPT1: Comment: Image: Comment state	
Print range Copies Pages from: to: Selection 1 OK Cancel	

3.Click "OK" to start printing.



Print setup

- 1. Select Start \rightarrow Setup \rightarrow 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

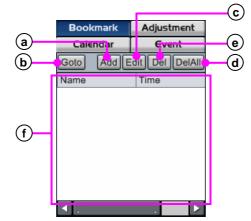
- 1. Check the printer setup in Windows.
- 2. Check to be sure that the printer and power cables are correctly connected.



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.

G								2	200	6	/	11	/	13	(M)	ľ	•		5	:	0	:	0	Ť
Sel All Cam	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Camera 1																									::
Camera 2																									
Camera 3																									
Camera 4																									\mathbf{M}

- 3. Click on the "Add" button.
- 4. Enter the name of the bookmark.

Bookmark	X
Name:	Bookmark01
Time:	2006 / 10 / 2 (M) 💌 12 : 30 : 24 🖨
	OK Cancel

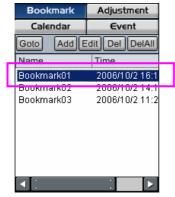
5. Click on the "OK" button to add it to the bookmark list.

\mathcal{G}							Ľ		200	6	/	11	/	13	(M)	ľ			5	:	0	:	0	÷
Sel All Cam	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	▲
Camera 1														۲											::
Camera 2														ľ											
Camera 3																									
Camera 4																									М



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.

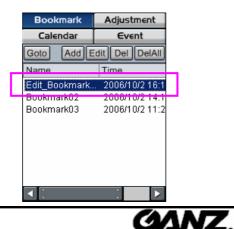


Revise bookmarks

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

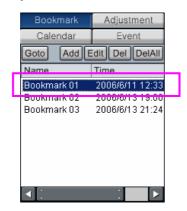
Bookma	rk X
Name:	Edit_Bookmark01
Time:	2006 / 10 / 2 (MON) 💌 16 : 14 : 50 🚔
	OK Cancel

4.Click on the "OK" button to view your changes.



Go to bookmark

1. Select the item you wish to access.



- 2. Click on the "Goto" button.
- 3. It will move to the specified bookmark time.

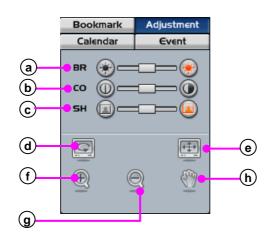
\mathcal{G}							Ľ	2	200	6	/	11	/	1	3	(M)	ľ	•		5	:	0	:	0	÷
Sel All Cam	00	01	02	03	04	05	06	07	08	09	10	11	2	1	3 1	4 15	16	17	18	19	20	21	22	23	▲
Camera 1													F	H											::
Camera 2														H											
Camera 3														Η											
Camera 4													L												М



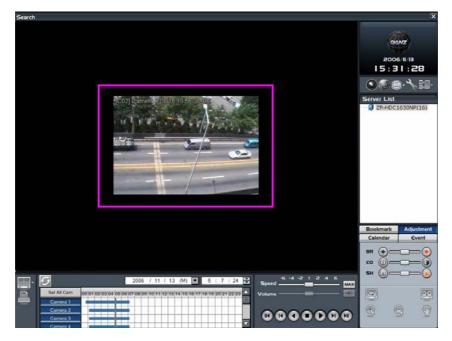
4.8 Picture adjustment

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.
- (\mathbf{g}) **Zoom Out** : Reduce the displayed image.
- (\mathbf{h}) **Move** : Locate one DVR server to another DVR server.
- 2. Select the channel you wish to adjust.



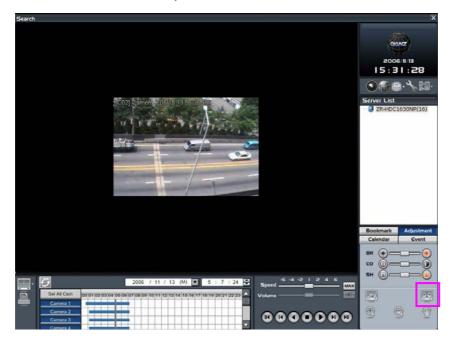


3. Adjust the Brightness/Contrast/Sharpness button.

	BR 🛞 — — 🛞
	co (()()
	ян 🔊 — — 🔊
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



- 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 log button, then the mouse pointer will change to the log 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.



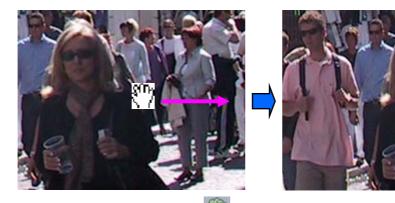
5. Click on the

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.

☞ [Note] Zoom in/out by Keyboard and Mouse

- Push Ctl key and Click left button on mouse, then Zoom-in is executed.
- Push Ctl+Shift key and Click left button on mouse, then Zoom-out is executed.

• Push up Mouse Wheel button, then Zoom-in is executed. Push down, then Zoom-out is executed. In case of Zoon-in by Mouse Wheel button, User can drag and move wherever wished place.

• When Zoom button is been using on "Adjustment" of Search, Zoom-in/Out on Keyboard & Mouse is not working

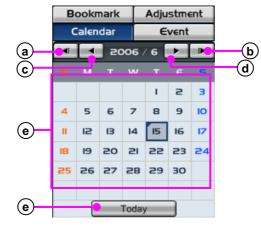


4.9 Calendar

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.

f.j						C	2	00	6	/	11	/	13	(1	M)	ľ			5	:	0	:	0	÷
Sel All Cam	00 0	01 03	2 03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	▲
Camera 1																								: :
Camera 2																								
Camera 3																								
Camera 4																								М

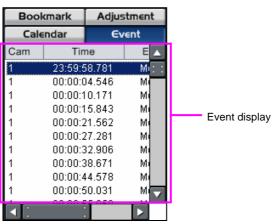


4.10 Event

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 the display the picture you wish to search.

Event

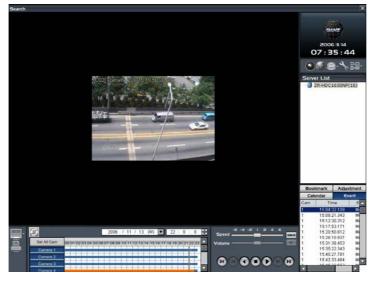
1. Click on the "Event" button to search the event.



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

Bool	kmark	Adjus	stment
Cale	indar	Ev	ent
Cam	Tin	ne	E 🔔
1	23:59:6	58.781	Mi: :
1	00:00:0)4.546	M
1	00:00:1	0.171	M
1	00:00:1	5.843	M
1	00:00:2	21.562	M
1	00:00:2	27.281	M
1	00:00:3	32.906	M
1	00:00:3	38.671	M
1	00:00:4	44.578	M
1	00:00:5	50.031	M
1	00.00.4	5 050	

3. The picture of the selected event is displayed.





4.11 Playback backup data

Playback backup data



button to open backup menu.



- 2. Click "Search" button.
- 3. Find the location of backup then click the "Select" button to open backup data folder.
- (DVR HDD Backup path : 'LocalServer_IP127.0.0.1' folder -> 'NDB' folder' -> Select backup folder (See below))

			[
Look In:	🚞 NDB	• 🗢 😢 💽	2 🖀 🗉 🖽
Name			Size Type
2007.01.26	05.20.57 ~ 2007.01.26 05.2		파일
2007.01.20	, 11.10.04 - 2007.01.20 11.1	-	파일
2007.01.31	. 15.16.59 ~ 2007.01.31 15.1		파일
		.	
			
File Name:	2007.01.31 15.16.59 ~ 2007.0	1.31 15.17.29	Select
Files Type:			Cancel

4. Selected backup will then be displayed in the Server list.



5. The backup time range will be displayed in the search timeline. Select the search time then Click button to playback backup data.



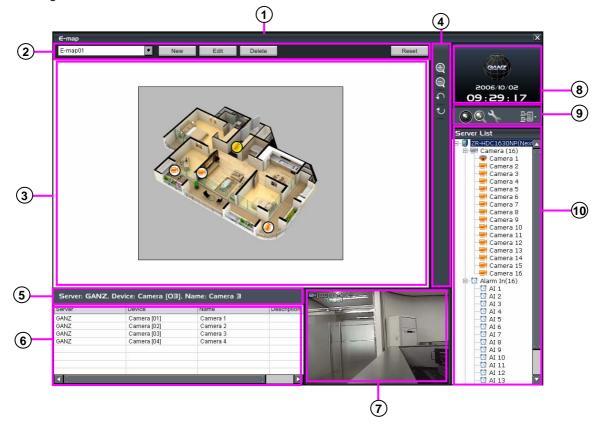
Sel All Cam				1.000						
Sei Ali Cam	14:30	14:40	14:50	15:00	15:10	15:20	15:30	15:40	Volume	
Cam01										
Cam02									0000V	Dala
Cam03						7		12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -		



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.

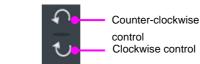
(2) E-map editing panel : Register, edit or delete E-map. It can delete all cameras, alarm-in and alarm-out controls in the E-map.

E-map01	● New	Edit	Delete	Reset
Selected E-map	Add E-map	Edit E-map	Delete E-map	Delete all controls

(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.





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.
- (1) 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.

New Map	X
Map Name :	E-map01
Map Path :	C:\E-map2\E-map01.bmp
	OK Cancel

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

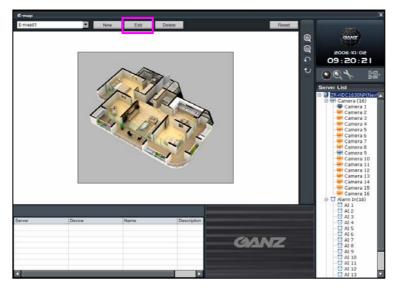




5.3 Edit E-map

Edit E-map

1. Click on the "Edit" button to add an E-map image.



2. Enter the map name and map path.

Edit Map		X
Map Name :	E-map01	
Map Path :	C:\E-map2\E-map01.bmp	
	ОК	Cancel

3. Click on the " \mathbf{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.

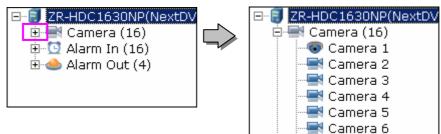




5.5 Device control registration to E-Map

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.

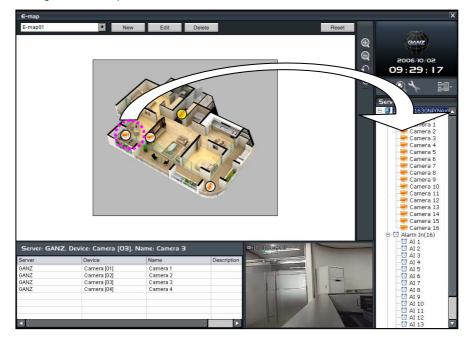




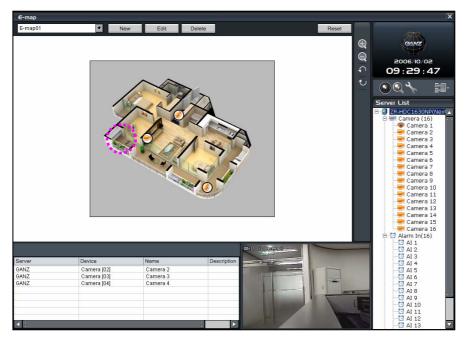
5.6 Remove device control from E-Map

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.

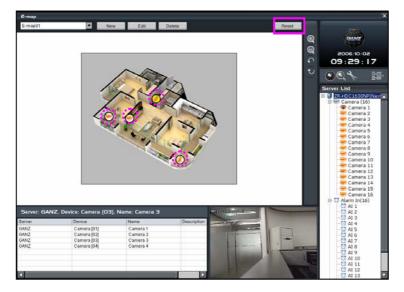




5.7 Remove all device controls from E-Map

Remove all device controls

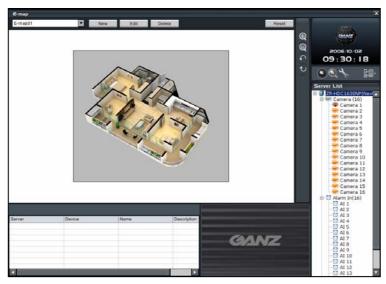
1. Click on the "Reset" button to remove all device controls.



2. A box will be shown as below.



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

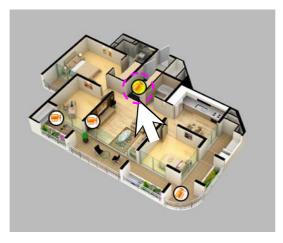




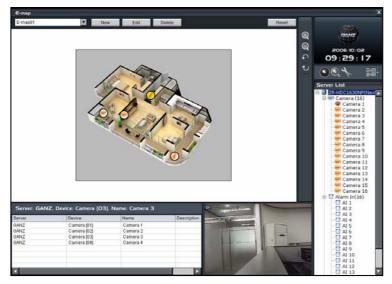
5.8 Live screen output

Display live screen

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



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





6. Configuration

6.1 Basic Menu Parts



- By pressing buttons, you can select between each menu.
- The main categories : Camera, Recording, Event, Backup, Network, System.

Saving/Cancelling of changed Information



- OK : Closes the window and saves any changed information.
- Cancel : Closes the windows and does not save changed information.
- Apply : Saves information but does not close the window.

	GMS Setting
GMS Setting	

• Click on the "GMS Setting" button to open the setting window.

Software Information GMS Version : I.O.4.0 (07121202) Language English This setup will affect after reboot. Without reboot some language may show broken characters or side effects. Emergency Monitor Port 12005		
English This setup will affect after reboot. Without reboot some language may show broken characters or side effects. Emergency Monitor		
English This setup will affect after reboot. Without reboot some language may show broken characters or side effects. Emergency Monitor	GMS V	ersion : 1.0.4.0 (07121202)
This setup will affect after reboot. Without reboot some language may show broken characters or side effects. Emergency Monitor	anguag	e
Without reboot some language may show broken characters or side effects. Emergency Monitor	English	
	show b	roken characters or side effects.
12003	-	
		12000
	Auto Lo	gout
Use	_	gout
Use Logout 3 min	Use	
	Use	
	Use	3 min

- Software Information : Displays installed GMS software version.
- Language : Select an appropriate language for the country of installation.
- Emergency Monitor : Enter the port number to use for Emergency Monitor.
- Auto Logout : To use Auto Logout function, check Use button. During setting time, if user doesn't use mouse or keyboard, it automatically log out.
 - · [Note]

• This manual is published by CBC Co.,Ltd and contains information about GMS Software which will enable you to use this product property. Different models can have limited function, if so the menu or function will be disabled.



6. Configuration

6.2 Hardware

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

6.2.1 Camera

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

Image: Recording Event Backup Network System Image: Recording Event Image: Recording System Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording Image: Recording I	onfiguration		×
Information 3 Name Camera 1 Resolution 352 x 240 Rec Frame 1 fps Rec Quality Highest Rec Type Continuous PTZ Use PTZ Use Covert Channel Not Used	· ·		GANZ
Command On Command On <th>Camera Audio</th> <th>302 M</th> <th></th>	Camera Audio	302 M	
Masking Zone Use Setting Apply to Setting Apply to Linked Alarm In 6 Alarm In 3 Alarm In 4 Alarm In 5 Alarm In 7 Alarm In 8 Alarm In 9 Alarm In 10 Alarm In 11 Alarm In 12 Alarm In 13 Alarm In 15 Alarm In 16 GM5 Setting OK Cancel Apply Apply Image: Apply	Attribute Name Camera Camera Use PTZ Use PTZ Use Setting Covert Channel Masking Zone Use Setting Covert Channel Masking Zone Covert Channel Marm In Alarm In Alarm In Alarm In Alarm In Alarm In Alarm In Charm In Covert Channel Covert Channel Marm In Covert Channel Covert C	Amme Camera 1 Resolution 352 x 240 Rec Frame 1 fps Rec Quality Highest Rec Type Continuous PTZ Setting Ganz ZC-PT/ 9600/1 Linked Alarm In A 1 Adjustment 5 Brightness 0 Hue 0 Contrast 0 Saturation 0 Apply to • 4 Alarm In 5 Alarm In 7 4 Alarm In 13 Alarm In 14 Alarm In 15	Sever List Sever List Camera 1 Camera 2 Camera 4 Camera 4 Camera 4 Camera 4 Camera 4 Camera 6 Camera 7 Camera 7 Camera 10 Camera 11 Camera 11 Camera 11 Camera 11 Camera 11 Camera 13 Camera 16 Camera 1

(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 up the camera name, camera in use or disabled, apply PTZ protocol and whether the covert camera is enabled or disabled, apply Masking (privacy) zone.

(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.

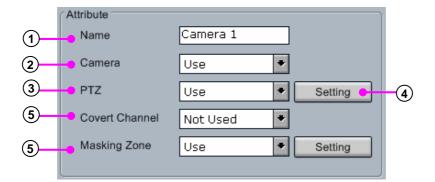
[Note]

• 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



- (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.
- (6) Masking Zone : Set up the camera name, camera in use or disabled, apply PTZ protocol and whether the covert camera is enabled or disabled, apply Masking (privacy) zone.

☞ [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 **v** button to select "use" PTZ.

Attribute		
Name	Camera 1	
Camera	Use 💌	
PTZ	Use 💌	Setting
Covert Channel	Use Not Used	
Masking Zone	Use 🔹	Setting

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

Attribute		
Name	Camera 1	
Camera	Use	•
PTZ	Use	 Setting
Covert Channel	Not Used	•
Masking Zone	Use	 Setting

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

Ρ	TZ Setting		X
ſ	PTZ Setup		ר
	Model	Ganz ZC-PT	
	Speed	9600	
	Address	0	
l			J
ſ	Port Setup		ר
	Port	COM3(Prolific USB-to-Serial Con 🔹	
	Mode	RS232	
	Parity	None	
	Data Bit	8	
	Stop Bit	1	
		Default	
		OK Cancel	



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

PTZ Setting	
PTZ Setup]
1 Model	Ganz ZC-PT 🔹
2 Speed	9600
3 Address	0
Port Setup]
4 Port	COM3(Prolific USB-to-Serial Con 🔹
5 Mode	RS232
6 Parity	None
7 Data Bit	8
8 Stop Bit	1
	9 Default
	OK Cancel

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.



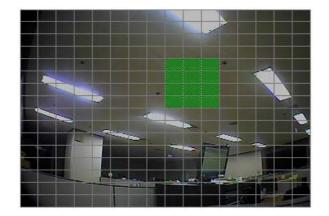
In camera watch part, when user wish to hide some special part because of privacy matter, User can set up Privacy zone.

Masking (privacy) zone setup

- 1. Select a camera number for Privacy Zone you wish to set up.
- 2. Select "Use" in the Masking Zone menu.

Attribute		
Name	Camera 1]
Camera	Use 🔹	
PTZ	Use 🔹	Setting
Covert Channel	Not Used 🔹	
Masking Zone	Use 🔹	Setting

3. Click "Setting" button, then Grid pattern will be displayed on camera Display.



- 4. Select a part wished to hide by mouse on camera.Assigning of Privacy Zone : Click left button on mouse and Drag.Removing of Privacy Zone : Click right button on mouse and Drag.
- 5. Press "OK" button, then Privacy Zone will applied on watch screen

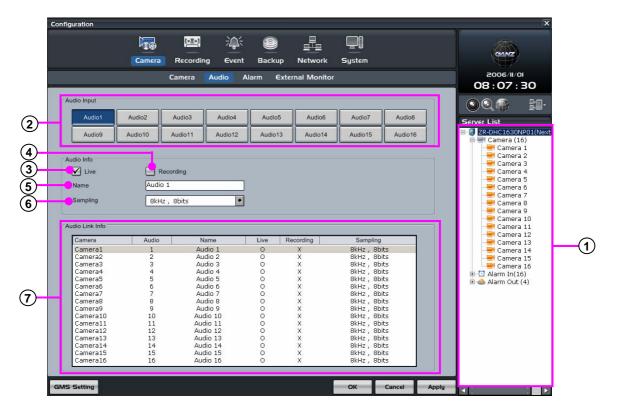
[Note]

• On recording, the special pare set as Privacy Zone will be not recorded.



6.2.2 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.



6.2.3 Alarm

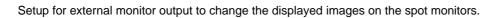
Alarms are used to activate and deactivate sirens and lights when certain events occur, e.g. when motion is detected or a sensor triggered. Configure the DVR using the explanations below.

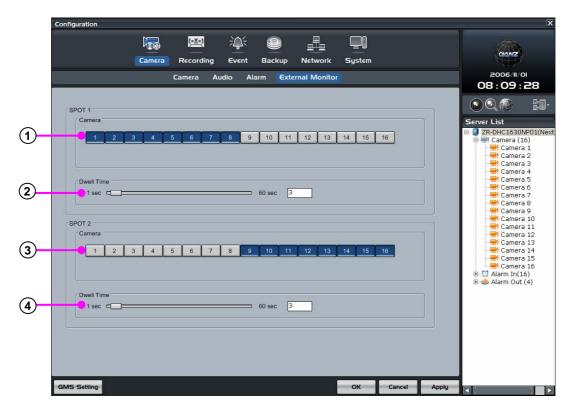
			Camera	Recordin	a Event	Backup		System		GANZ
			cuniciu	Camera		114-02-0-0-07-07-07-07-07-07-07-07-07-07-07-07	nal Monitor	Jystem		2006/11/01 08:07:47
	AlarmIn -									
	Settin	g annel		AlarmIn1	•	Name		AI 1		Server List
	Pre	Rec Time		0 sec	•	Post Rec Time		3 sec		E-SIZR-DHC1630NP01(N
		Screen		Not Use	•	Discard Time		1 sec		Camera 1
		nked PTZ		Camera 1	•	Preset		Preset 1	•	Camera 3 Camera 4 Camera 5
										Camera 5
	Туре	2						12		 Camera 8 Camera 9
		1 N.C	2 N.C	3 N.C	4 N.C	5 N.C	6 N.C	7 N.C	8 N.C	Camera 10
+		9	10	11	12	13	14	15	16	Camera 12 Camera 13
		N.O	N.O	N.O	N.O	N.O	N.O	N.O	N.O	Camera 14
	Alarm Ou	t								⊞ 🌰 Alarm Out (4)
T	T	In Linked Al	armOut	Alarm Out1	•	Dwell Time		10sec		
	Г	Alarmin1	Alarmin2	Alarmin3	Alarmin4	AlarmIn5	Alarmin6	Alarmin7	Alarmin8	
t		AlarmIn9	AlarmIn10	Alarmin11	Alarmin12	Alarmin13	Alarmin14	Alarmin15	Alarmin16	
			JL					J		

- (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.
- (1) 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.
- (1)Sensor button : Select an alarm-in to be linked with an alarm-out.



6.2.4 External monitor





- (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.



6.3 Recording

6.3.1 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.

		Record	ding Sched	ule			2006/11/01	
	_	Theodor	ang sence	- 112			08:10:39	
 Туре Ту	pe 1	*						
Name Type	1	Color	Upd	ate			Server List	
Camera	Frame	Quality	Resolution	Emergency Fram	ne Apply to		E ZR-DHC1630NP01(Next E E Camera (16)	
All Camera 💳	 15	•		<u> </u>	15		Camera 1	_
Camera 1 💳		Normal 🔸	352x240 •		30		Camera 3	
Camera 2 =		Normal 💌	352x240 •		30	•••••	Camera 5	
Camera 3 Camera 4 Camera 4	=13 =13	Normal •	352x240 •		30		Camera 6	
Camera 4		Normal •	352x240 •		30		Camera 8 Camera 9	
Camera 6	13	Normal	352x240 •		30		- 📑 Camera 10	_
Camera 7 💳	13	Normel	352x240 •		30		Camera 11	
Camera 8 💳	13	Normal 💌	352x240 🔹		30		Camera 13	
Camera 9 💳	 13	Normal 💌	352x240 🔹		30	····•	Camera 15	
Camera 10 💳	 13	Normal 🔸	352x240 •		30	····••	Image: Barrier House Alarm In(16) Image: Image: Barrier House Alarm Out (4)	
Camera 11 C		Normal 💌	352x240 •		30		Alarin Out (4)	
Camera 12 C		Normal	352x240 +		30			
learning lea				last last last las				
Weekday	01 02 03 04	05 06 07 08	09 10 11 12	13 14 15 16	6 17 18 19 2	20 21 22 23		
Saturday								
Saturday								

- (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.



6.3.2 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.

	Configuration							X	
			🔤 🏹	9		[]		(AR)	
		Camera 🛛 🥵	cording Event		Network	System		GANZ	
4	Schedule Mode Ho	liday 🔹 Holi	Recordin	g Schedule	}	_		2007/08/29 14:16:38	
	2007 / 8 M T W T F S	2007/9 M T W T F S	2007/10	2007/1 S S M T W T	F 8 8 M	2007/12 TWTFS	2008/1 M T W T F S		
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	2 3 4 5 6 7 8 9 10 11 12 13 14 1	5 14 15 16 17 18 19	20 11 12 13 14 15	i 16 17 🧕 10 i	1 12 13 14 15 1	1 2 3 4 5 6 7 8 9 10 11 12 3 14 15 16 17 18 19	Server List	
(1)-	19 20 21 22 23 24 25 26 27 28 29 30 31	16 17 18 19 20 21 2 23 24 25 26 27 28 2 30	2 21 22 23 24 25 26 9 28 29 30 31	27 18 19 20 21 22 25 26 27 28 29	23 24 16 17 30 23 24 30 31	25 26 27 28 29 2	0 21 22 23 24 25 26 7 28 29 30 31	E I Camera (16) Camera 1 I Camera 2	
U	200872 M T W T F 8 1 2 3 4 5 6 7 8 9	200873 M T W T F 8 2 3 4 5 6 7 8	2008 / 4 M T W T F 1 2 3 4 6 7 8 9 10 11	200875 S M T W T 5 1	F S M 2 3 1 2	2008 / 6 T W T F S 3 4 5 6 7 10 11 12 13 14	200877 M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12	- 🖶 Camera 3 - 📑 Camera 4	
	3 4 5 0 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	9 10 11 12 13 14 1	5 13 14 15 16 17 18 2 20 21 22 23 24 25	19 11 12 13 14 15	16 17 15 16 23 24 22 23	17 18 19 20 21 1 24 25 26 27 28 2	3 14 15 16 17 18 19 0 21 22 23 24 25 26 7 28 29 30 31	Camera 5	
		30 31					Continuous		
	Camera 1 Camera 2	01 02 03 04 05 0	6 07 08 09 10 11	12 13 14 15 1	5 17 18 19	20 21 22 23	Motion	Camera 11	
	Camera 3 Camera 4						Object Watch	Camera 13	3
(5)	Camera 5 Camera 6						Alarm In	Alarm In (16)	۲
\cup	Camera 7 Camera 8						ATM/POS	B C Alami Out (+)	
	Camera 9 Camera 10 Camera 11						Apply to		
	Camera 12 Camera 13								<u>(6)</u>
	Camera 14 Camera 15						Motion Schedule		-7
	Camera 16								
	GMS Setting					ОК	Cancel Apply		
(1)	12-month cale	ndar : Disp	olays a cale	ndar for a	12-mor	th period	l.		
ି	Sahadula mad		the 💽	button to	a ala at h	otwoon t	ha different m	adaa "Maak" "Sati	urdov"
	Schedule mod 'Holiday".	ie . Click of		bullon to	Select	etweent	ne diferent m	odes "Week", "Sati	uruay,
	Weekday : I Saturday : N			•	•	•			
	Holiday : M			•		•			
(3)	Recording mo	de · Select	between th	e varietv	of recor	dina mod	les Click on th	ne box next to each	h
	ecording mode								•
	Continuous	-			-				
	Motion reco	-	• •						
	-			-			in a designate	d area.	
	Sensor reco	-	-	-					
	Pre recordin	ng : Record	lina bv moti	on but rec	ording	starte hof	ore motion ac	cording to 2 pro-ro	ording
	ime penoù ina	t can be ma	anually set.		ording .	starts ber			Joruing

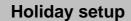
- **(4)** Holiday : Set up holiday by designation of user (see page 64).
- (5) **Timeline panel** : Set up the recording type for each camera across a 24-hour period. Multiple recording type can be set up, use the mouse to drag recording areas on the graph.
- **(6)** Apply to : Selected channel setting values can be applied to all or just selected channels.



Area 1		Ar	ea 2				Area	3			Are	ea 4				All								
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Camera 1																								
Camera 2																								
Camera 3																								
Camera 4																								
Camera 5																								
Camera 6																								
Camera 7																								
Camera 8																								-
Camera 9		1	İ	1	1	i	İ.	i .	i	i	1	1	1	1	1	i	İ.	1	1	i	1	1	1	

(7) Motion Schedule : Click this button to view the motion schedule set for weekday, saturday, holiday.





1. Click on the "Holiday" button to set up a holiday in the recording schedule.

	Holiday	Setu	р							X	
	Holida	у						List			
			2	006 / -	11			Date	Cycle		
		M	T	w	т	F	S	11/01/2006	No Cycle		
				1	2	3	4				
	5	6	7	8	9	10	11				
(1)	12	13	14	15	16	17	18				-(3)
\odot	19	20	21	22	23	24	25				
	26	27	28	29	30						
			1	Today	/	J					
2	Cycle										
	Sta	10 m	2006	/ 11	/ 1	(W)	•	 Unlimited Count End 	times	1 (W) 💌	
		Add		Update	•	De	H		ок	Cancel	

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



(2) **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.

 $\ensuremath{\text{per week}}$: Repeat the holiday schedule every week from designated date.

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

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



	Holiday	y Setu	р						X
	Holida	iy						List	
		•	2	006 / 1	11			Date	Cycle
		М	T.	W	Τ	F	S	11/01/2006	No Cycle
				1	2	3	4		
	5	6	7	8	9	10	11		
	12	13	14	15	16	17	18		
	19	20	21	22	23	24	25		
	26	27	28	29	30				
			_						
	-		_	Today	/				
	Cycle	•							
	(No No	Cycle						
	6	Ev	ery	Г	1	Day			
	0	Ev	ery	Ē	100	Veek			
		Ev		i i		Nonth			
		5d		- H		/ear			
) Ev	ery	L	_	rear			
. г	Rang	10							
	Sta	· · · · ·	2006	/ 11	/ 1	(W)	+	 Unlimited 	
4)	Old	2	2000	/ 11	/ 1	(11)		G Count	times
								-	
								\ominus End	2006 / 11 / 1 (W) 💌
_ L									
5)		Add		Update	е	De	H		OK Cancel
				1		Y			
				1					
			(6)		$(\overline{7})$			
				9		Ś			

(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.
- Del : Delete holiday from the recording schedule.
 Click on the "Del" button to delete the holiday from the holiday list.



6.4 Event

6.4.1 Motion detection

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

Motion Energency Video Loss E-Mail 2007/08/29 Jan 2010 Detection Mode Mode Jan 2010 Jan 2010 Jan 2010 Detection Mode Mode Object Watch Image: Schedule Mode Mode Mode Schedule Mode Mode Schedule Mode Mode Schedule Mode Image: Schedule Mode Schedule Mode Mode Schedule Mode Mode Schedule Mode	Motion Emergency Video Loss C-Mail 2007/08/29 Id: 17:55 Id: 17:55 Id: 17:55 <tr< th=""><th></th><th>Camera</th><th>Recording</th><th>Event</th><th>Backup</th><th>N'3rk</th><th>System</th><th></th><th></th><th>GANZ</th></tr<>		Camera	Recording	Event	Backup	N'3rk	System			GANZ
Detection Mode Motion Detection Object Watch Winder Setting Schedule Mode Weekday Image: Schedule Mode Set Area Area 1 Set Set Camera 1 Block Count Setting 10x15 Camera 4 Block Count Setting Go Camera 7 Pre Rec Time S sec Post Rec Time Set All Area Erase All Area Pre Rec Time S sec Post Rec Time Post Rec Time Set Camera 3 Buzzer Full Screen Not Used Pre Rec Time Post Rec Time Buzzer Full Screen Not Used Apply to Camera 11 Camera 1 Preset Not Used Apply to Camera 7 Camera 2 Camera 3 Camera 4 Camera 6 Camera 1 Preset Not Used Apply to Apply to Inked Camera 3 Camera 3 Camera 4 Camera 7 Alarm Out (4) Apply to Alarm Out (4) Alarm Out (4)	Detection Mode Molion Detection Molion Detection Object Watch Weekday Schedule Mode Area Area 1 Set Zone Block Count Sensitivity Set All Area Erase All Area Camera 1 Pre Rec Time Sec Post Rec Time Sec Pre Rec Time Sec Pre Rec Time Sec Pre Rec Time Sec Pre Rec Time Pre Rec Time Sec Pre Rec Time r< th=""><th></th><th></th><th>Motion 6</th><th>Emergency</th><th>Video Lo:</th><th></th><th></th><th></th><th></th><th></th></tr<>			Motion 6	Emergency	Video Lo:					
Camera 1 Camera 2 Camera 3 Camera 4 Camera 5 Camera 6 Camera 7 Camera 8	Camera 1 Camera 2 Camera 3 Camera 4 Camera 5 Camera 6 Camera 7 Camera 8	Pre Rec Time		Full Screen	e Ssec) Motion Detectio on Seamy chedule Mode rea one lock Count ensitivity Set All Ar	Area 1 Setting ea Apply to Block Cc Pre Rec Time Zo	Erase All Al Erase All Al Dunt St Time Prine	ea ensilivity pst Rec Time	3 Serv 4	Camera 1 Camera 1 Camera 1 Camera 2 Camera 3 Camera 4 Camera 4 Camera 4 Camera 5 Camera 6 Camera 7 Camera 7 Camera 7 Camera 10 Camera 10 Camera 10 Camera 10 Camera 10 Camera 10 Camera 10 Camera 14 Camera 14 Camera 15 Camera 16 Camera 10 Camera 10
		Linked PTZ	Camera I					20			
	Camera 9 Camera 10 Camera 11 Camera 12 Camera 13 Camera 14 Camera 15 Camera 16	Linked PTZ Camera			-		1				
Linked Alarm Out	Alarm Out 1 Alarm Out 2 Alarm Out 3 Alarm Out 4	Linked PTZ Camera Linked Camera Camera 1 Camera 9 Linked Alarm Out	Camera 2 Camera 10	Camera 11	Camera 12		1				

- (1) **Camera** : Select the camera you wish to set up.
- (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) **Motion setting** : Input the setup for the motion Detection facility. Use the block count, sensitivity and grid to select how the motion detection will work.

Schedule Mode : Select either weekday, saturday or holiday to set the motion setting, there are 5 area setup's for each schedule mode.

Area : Set the area. First select area number then use the gird, block and sensitivity to adjust the motion options. Click the set button to apply the settings, the Area All is the default setting if no area setups are used.





Zone : Set the time period for which each area setup will be used. In the zone setting select the schedule mode and then select the area to set over the 24hr time line period.

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

Sensitivity : Set the sensitivity of the motion detection.

Set All Area : Select all the motion detection blocks on the grid.

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

• The motion setting options, schedule mode, area and zone only function when the detection mode is set to motion detection and are not available for object watch detection.

(5) **Rec Time** : Input the pre and the post recording time when the event occurs.

Pre rec time : Set the pre-recording time for the period between when the motion was detected and the time when the DVR starts recording.

Post rec time : Set the post-recording time for the period after when the motion has stopped and when the DVR stops recording.

(6) Action setting : Set the internal buzzer to activate upon motion and select the camera to full screen in live view upon motion.

(7) Linked PTZ : Set a PTZ camera to move to a preset position upon motion activation.

(8) Apply to : The selected channel setting value can be applied to all or just selected channels.



- (9) Linked Camera : Link cameras to record upon motion detection in another camera, multiple cameras can be selected to be linked via motion.
- (1) Linked Alarm-Out : Link alarm-outs to trigger on motion detected in a camera, multiple alarms can be linked via motion

	Time Zone Setting	
	3	
	Time Zone Setting	
1-	Weekday Image: Start Time OO : OO : OO : OO	4
(2)	Area 1	シ
	00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
6		
	OK Cancel	

- Schedule Mode : Select the schedule Mode (Weekday, Saturday, Holiday) Weekday : Setup timeline for the weekday schedule Saturday : Setup timeline for the Saturday schedule Holiday : Setup timeline for the Holiday schedule
- (2) Area : Select the area mode, there are 5 area modes for each schedule mode
 Area1 ~ Area4 : Select a preset area mode to add
 All : The Area All option is the default mode on the timeline when no other area (1-4) are used.
- (3) **Time Zone** : For selected area input the time period for operation.
- (4) Clear : For the select the Area(Area1~4) the "Clear" button removes the area setup from the timeline.
- 5 Set : Once the area and time zone are selected click the "Set" button to apply the setting, the setting will then be shown on the timeline.
- (6) **Timeline** : Displays the timeline for the selected schedule mode.

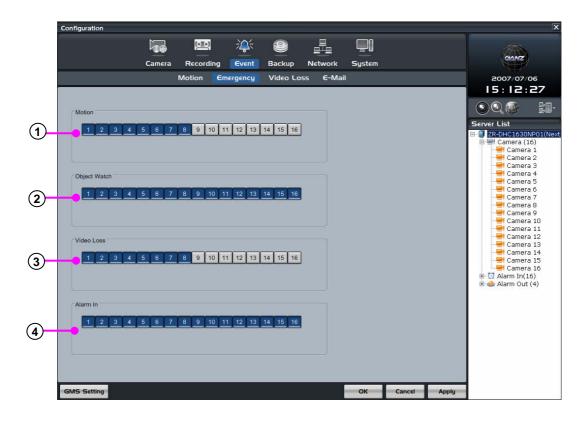
[Note]

•Each area mode cannot be selected twice on the same schedule also area modes cannot overlap each other.



6.4.2 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) **Object Watch** : Select the cameras to be used to activate the emergency setting of the DVR upon object watch.
- (3) Video Loss : Select the channels to be used to activate the emergency settings upon video loss.
- (4) Alarm-In : Select the alarm-in to be used to activate the emergency settings of the DVR upon alarm-in activation.



6.4.3 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.

	Configuration	×
	Camera Recording Event Backup Network System	n COANZ
	Motion Emergency Video Loss E-Mail	2006/II/0I 08:45:12
(2)-	Cable Buzzer	
2 3 4	Camera Camera 1 Linked Camera 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Linked PTZ	Server List □ ZR-DHC1630NP01(Next) □ Camera (16) □ Camera 1 □ Camera 2 □ Camera 3 □ Camera 4 □ Camera 5 □ Camera 5 □ Camera 6 □ Camera 8 □
5	Camera Camera 1 Preset NotUse Linked Alarm Out	Camera 9 Camera 10 Camera 11 Camera 12 Camera 13 Camera 14 Camera 14 Camera 16 Camera 16
6_		B- ① Alarm In(16) B Alarm Out (4)
	GMS Setting OK	Cancel Apply

- **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.



6.4.4 E-mail notice

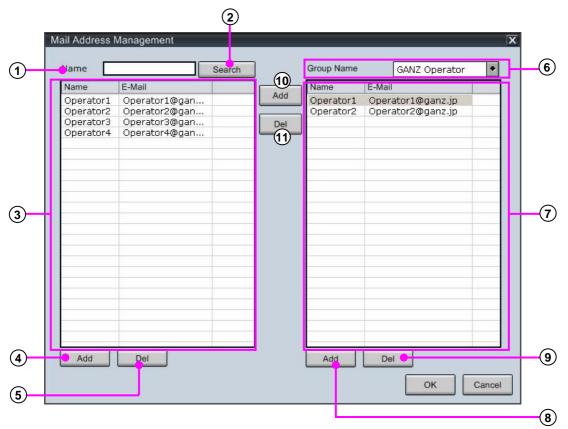
Send an e-mail to single or multiple accounts when an emergency occurs set by motion, object watch, video loss and alarm input.

Configuration	X	
Camera Recording Event Backup Network System	GANZ	
Motion Emergency Video Loss E-Mail	2007/07/10 17:10:02	
Mailing List Mailing List Name Emergency Message No Name		
Mail Setup 1 Emergency Message Receiver Operator1@ganz.jp CC Operator2@ganz.jp	Server List	
Subject < <emergency message="">> Mail Server Setup</emergency>	Camera 2 Camera 3 Camera 4	
Sender Name DVR Server Authentication	Camera 5	
Server(SMTP) mail.ganz.jp Password ****	Camera 8 Camera 9	
Notification Items	Camera 11 Camera 11 Camera 12 Camera 13	
© Event Motion	Camera 14	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Object Watch		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Video Loss Add Update Del Del Del Del	CTURRENDERGY FEITH ANNUELED	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Alarm In		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Mail Group/User Manage		
GMS Setting OK Cancel Apply	-	

- (1) Mail list name : Enter name of who will be added to the mail list.
- 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, motion detection, object watch or video loss 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.
- **1) Del** : Delete selected e-mail contact from the group list.



6.5 Backup

backup can be made to HDD, USB, CD or DVD on the local system.	x
Camera Recording Event Backup Network System Backup Schedule	2008/01/02
	21:38:38
Time No Name Type	Start time 09:32:25 09:32
Type Daily Start Time 21 : 32 : 25 ÷	B3-02-22 09-04 □ Camera (16) Camera 1
Time Range Start 21 : 32 : 25 テ	- Camera 2 - Marca 3 - Marca 4
End 21:33:25 🔁	Camera 5 Camera 6 Camera 7 Camera 7 6
Server ZR-DHC1630NP	Camera 9
Media Type Removable(USB) Drive Povice I:\	Camera 11 Camera 12 Camera 13
Path I:\	Camera 15 Camera 16 E Camera 16
	Alarm Out (4)
4 ✓ Continuous ✓ Motion ✓ Alarm ✓ Event ✓ Pre Rec ✓ Audio	
5 amera	
	(9)
GMS Setting OK	Cancel Apply
(1) Backup list name : Input backup name which will be added to the	ne backup list.
(2) Time : Select "Daily", "Weekly", "Monthly" or "Yearly" and the rep end time range.	petition period. Then select the start and
Start Time : Enter the time you wish to start the backup. (Must	
Start Time Range : Enter the start time range for the backup p End Time Range : Enter the end time range for the backup pe	
3 Destination : Enter the details for where the backup is to be ma	de.
Server : Select the DVR server on which the backup will be ma Media type : Select backup media on which backup data will b	ide.
None	
None HDD	
DVD Drive Removable(USB) Drive	
Device : Select the drive path for the type of media on DVR se Path : Select the path which the backup will be made.	rver.
Multiple Drive : During backup, when one HDD is full, it moves	
automatically & sequentially. To set Multi Drive, check "Multiple button.	Drives" and click "Drive Selection"
(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 periods 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" butto	on.

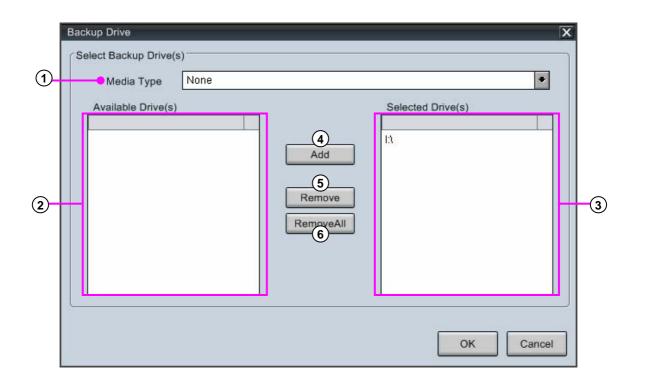
Establish a schedule that assigns backup recordings to be created at a certain time and date. The backup can be made to HDD, USB, CD or DVD on the local system.

9 Delete : Select backup to delete from the list, click on the **"Delete"** button.

(8) Update : Select to update a backup in the list, click on the "Update" button.



Set up Multiple backup drive



- (1) Media Type : Select drive wished to make as Multiple backup drive.
- (2) Available Drive(s) : This indicates drive for selected Media Type.
- (3) Selected Drive(s) : This indicates drive for selected Multiple backup drive. .
- (4) Add : Select drive on Available Drive(s) list and press "Add" button, then it will be added on Selected Drive(s) list.
- (5) **Remove** : Select a drive wished to delete on selected Drive(s) list and press "Remove" button, then it will be deleted.
- 6 **RemoveAll** : Press "Remove All" button in case of deleting all drive list on Selected Drive(s).



6.6 Network

6.6.1 Connection

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

Configuration								-		
		[•][•]	÷Q;€	9					A	8
	Camera	Recording	Event	Backup	Network	System			<u>A</u>	
	Connectio	n DDNS	Stream	n Control	Emergencu) Monitor			2008/0	
Fundamental and an and an and an and an and an and an and an and an and an and an and an and an and an and an an and an an an an an an an an an an an an an 				_						8.
IP Auto Allocation IP Address	210 .	121 . 177	. 96						Server List	<u></u>
Subnet Mask	255 .	255 . 255	. 0						E ZR-DHC16	
Gateway (*The System will	210 .	121 . 177	. 250						Car	nera 1
		ucary.j		=						
Auto DNS Server Primary DNS	Setting 168 .	126 . 63	. 1						Car	nera 6
Secondary DNS	0.	0.0	. 0						- 📑 Car	nera 7 nera 8 nera 9
Remote Connection									- 📑 Car	nera 9 nera 10 nera 11
Bandwidth	64 Kbps	i 100 M	bps No Limit	7					- 🔤 Car	nera 12 nera 13
Number of remote	10		1	-					🔤 Car	nera 14 nera 15
Web DVR Suppor	Allow	4	•						🗉 🖸 Alarm	
GMS Support	Allow		•						🗄 🌰 Alarm	Jut (4)
Port Number	12000		Port Che	eck						
GMS Setting						ок	Cancel	Apply		:
IP Auto Allocatio	n (DHC	P) : Che	ck the	IP Auto	Allocatio	on box to	o receive t	he add	ress autor	naticall
from the DHCP se										
without a DHCP s			-	nter the	network	details f	for the cor	nnected	network,	input IF
address, subnet n	lask and	a gatewa	ay.							
Auto DNS Server	setting	I: Input	first DN	IS serv	er addres	ss to ma	in DNS se	erver an	d support	DNS s
☞ [Note	1									
	-	act the r	otwork	admin	ictrator if	vou don	i't know th		droce or	
	rk situat		IELWOIK	aumin		you don		e ir au		I
Bandwidth : Set u	up the m	aximum	l bandv	vidth fo	r the DVF	R data tr	ansmissio	on by ne	etwork.	
Acceptable coun	t : Set u	p the ac	ceptab	le num	ber of co	nnected	clients (re	emote u	sers).	
☞ [Note		•							,	
	-	cliente (CONNEC	t to the		svetor	n can inter	foro wit	h hasic	
							The count			
to pre	vent the	system	from b	eing ov	/erloaded		many use			
happe	ens, limit	the clie	nt conr	nect nu	mber.					J
				-l' -	- (\\\/-		114			
WEB DVR Suppo	rt : Sele	ect to en	able or	aisabl	e the Wel	איע מ	acility.			
CMS Support : S	elect to	enable o	or disab	le the	CMS soft	ware co	nnection.			
Port number : Inp	out the n	etwork p	oort on	which	data is tra	ansferre	d. Click or	n the " P	ort Check	‹ " butt
find if the s										



6.6.2 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.

	Configuration	X
	Connection DDNS Stream Control Emergency Monitor	2006/II/0I 08 : 58 : 29
1-	Account ID DDNSUser Password ****	Server List
2 3 4	Network Server Address 210.121.177.219 Server Port 1055	Camera 1 Camera 2 Camera 3 Camera 3 Camera 4 Camera 5 Camera 6 Camera 6
4	Client Port Update Time 0 + hour 2 + minute 0 + sec	Camera 8 Camera 9 Camera 10 Camera 10 Camera 12 Camera 13 Camera 14
6- 7- 8-	Start Option Automatically run when system start. Automatically run when application start. Start service when DDNS client is launched.	er Camera 15 er Camera 16 ⊕ ① Alarm In(16) ⊕ ▲ Alarm Out (4)
U		
	GMS Setting OK Cancel Apply	I i i k

- 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.



6.6.3 Stream control

	Configuration				X
		Camera Recording	Event Backup Network	System	GANZ
		Connection DDNS	Stream Control Emergency	Monitor	2006/11/01 08 : 58 : 36
<u>(1)</u>	Use Camera	Remote Frame	Remote Remote Quality 352x240 Highest		Server List
2	Camera 1		352x240 Normal 352x240 Normal 352x240 Normal 352x240 Normal		□ I ZR-DHC1630NP01(Next □ I Camera (16) I Camera 1 Camera 2
	Camera 4		352x240 Normal		Camera 3 Camera 4 Camera 5 Camera 5 Camera 6
3	Camera 6		352x240 Normal 352x240 Normal 352x240 Normal		Camera 7 Camera 8 Camera 8 Camera 9 Camera 10 Camera 11
	Camera 9 Camera 10		352x240 Normal 352x240 Normal 352x240 Normal		Camera 12 Camera 13 Camera 14 Camera 14 Camera 15
(4)	Camera 12		052 10 Normal 352x240 Normal		☐ ☐ Camera 16 ⊕ 전 Alarm In(16) ⊕ ▲ Alarm Out (4)
5	Camera 14		352x240 • Normal • 352x240 • Normal • 352x240 • Normal •		
	GMS Setting			OK Cancel	

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.



6.6.4 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.

	Camera	Recording	Event	Backup		S ystem			GANZ
	Connecti		20803806705		Emergency	an di s a masalar c			2007/07/10
									17:17:16
List Name					Emergency Stre	x7/2011.0.4.0.002897.0.0.5.0	Port		
Name	Emergency Moni	tor			No Name 1 Emergi	Address enc 192.168.1			Server List
Remote Address	r						•		E Camera (16)
Address Port	192.168.121.100								Camera 2
Foit	12000								Camera 4
Emergency Stream			_						Camera 6
Transfer Time	0 • hour 0	♦ min 3	• sec						Camera 8
Notification Items	 Event 								Camera 10
Motion	-								Camera 12
	56789	10 11 12 13	14 15 16						Camera 14 Camera 15 Camera 16
Object Watch	56789	10 11 12 13	14 15 16						Harm In (16)
Video Loss									Alanni Odc (4)
Alarm In	56789	<u>10 11 12 13</u>	14 15 16						
	56789	10 11 12 13	14 15 16		Add	Update	Del		
SMS Setting						ОК	Cancel	Apply	

- (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, object watch, 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.



6.7 System

6.7.1 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.

		User Se	tting Date/1	ime Informatio	n		2008/01/02
_							21:44:46
Group List		Name	admin		Group	•	00. 11-
Group Nam Administr.	e Description	Password	Gammer	Use P	assword Expiry Date		Server List
Power Us.		Password Expiry Date	0 Day	Advances	Password Expiry Dat	•	E- ZR-DHC1630NP(1-7_96
Restricted Standard			word at first login	E-Mail			E El Camera (16)
Scandard		Phone		Descriptio	on 🗌		
		Permission			0. 4 74		
		Server				1	
		Shut Down	DB Alloc	Remote Upgr	ade		Camera 7
Add	Del					- Eutomal	Camera 9
Joor List		Login	Camera	Audio	Alarm	Monitor	Camera 10
User Name	Description	Recording	Schedule	Motion	Emergency	Video Loss	Camera 12
admin		E-Mail	Backup	Network	DDNS	Stream Control	🖃 Camera 14
		Setting	Date/Time	MInformation	Emergency Monitor	Masking Zone	Camera 15
		Camera					🖻 🛄 Alarm In (16) 🗉 🥧 Alarm Out (4)
		1 2	3 4 5 6	7 8 9	10 11 12 13	14 15 16	alann out (+)
		Live View					
		Login	Playback	PTZ Control	Covert Channel	Backup	
		Search		Covert Chann			
Add	Del	Login	Backup	Search	el 🖌 Remote Backup	>	

- (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. Phone : Enter the telephone number of the user. E-mail : Enter the e-mail address of the user.

- **Description** : Enter any addition explanation if required.
- 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.
 Remote Upgrade : Set up the upgrade of DVR S/W to GMS.

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 recording 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.

.055 : Allow authority to set up video loss



p List ministr wer Us stricted andard	Password Password Expiry Date Change passw	ing Date/Ti admin 0 Day(s	Use P	Group	•	2008/01/02 21:44:46
bup Name Description ministr wer Us stricted	Name Password Password Expiry Date Change passw				•	
	Phone	ord at first login) Advanced Notice E-Mail Descriptic	assword Expiry Date Password Expiry Date		Server List = ZR-DHC1630NP(1-7_96 = Camera 1 Camera 2 Camera 3 = Camera 4
Add Del	Server Shut Down Configuration	✓ DB Alloc ✓ Camera ✓ Schedule ✓ Backup	Remote Upgr	✓Alarm ✓Emergency ✓DDNS	External Monitor Video Loss Stream Control	Camera 5 Camera 6 Camera 7 Camera 7 Camera 9 Camera 10 Camera 11 Camera 11 Camera 12 Camera 13 Camera 14 Camera 15
Add Dei	Camera Camera 1 2 3 Live View Cogin Search Cogin	Date/Time A 5 6 Playback Backup	PTZ Control	Emergency Moniter Out 11 12 13 Covert Chann Live Remote Backs	el 🖌 Backup	L I Camera 16 ⊕ ① Alarm In (16) ⊕ ▲ Alarm Out (4)

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. **Masking Zone** : Allocate authorization to set up the Masking Zone.

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 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.
 (8) Search : Allocate 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.
 Remote Backup : Set up whether or not authorization of GMS about recorded data backup from DVR.



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.

Add Group	X
Name	Operator
Description	
	OK Cancel

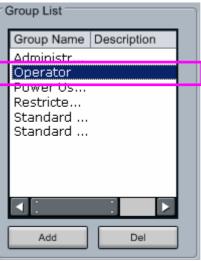
3. If you click on the "**OK**" button, the group will be added to the group list.

(Group List		
	Group Name	Description	
l	Administr		
l	Operator		
l	Power Us		
I	Restricte Standard		
I	stanuaru		
l	I	:	
	Add	Del	



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.

Group delete	X
Do you want to delete this group?	
Yes No	

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

0	Group List	
	Group Name	Description
	Administr Power Us Restricte Standard	
	 ■ 	:
	Add	Del



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.

Add User	X
Name	DVR1
Password	****
Group	Standard Users 🔹
Phone	011-123-1234
E-Mail	DVR@ganz.jp
Description	
	OK Cancel

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

User List	
User Name	Description
DVR1	
admin	
guest	
I .	
Add	Del
,	



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.

User delete	X
Do you want to delete this user?	
Vec No	
Yes No	

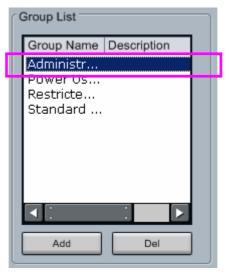
4. You can confirm that the user account has been deleted in the user list.

User List	
User Name	Description
admin guest	
	. >
Add	Del



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.

Group List	Account				
Group Name Description	Name	Administrators			
Administr	Description				
Power Us					
Restricted					
Standard					
	Permission				
	Server				
	Shut Down	DB Alloc	Remote Upgra	de	
Add Del					
	Configuration	Camera	Audio	Alarm	
User List		Camera	- Addio	Alann	Monitor
User Name Description	Recording	Schedule	Motion	Emergency	Video Loss
	E-Mail	Backup	Network	DDNS	Stream Control
	Setting	✓ Date/Time	Information	Monitor	Masking Zone
	Camera				
	1 2 3	4 5 6	7 8 9 1	10 11 12 13	14 15 16
	Live View			Covert Channe	
	Login	Playback	PTZ Control	Covert Channe Live	Backup
	Search	Backup	Covert Channe	Remote Backu	
Add Del			Coarch		,

3. Click on the "**OK**" button to save the changes in authorization.



Set up individual user account authorization level

- User List
 User Name Description
 admin
 guest
 Add Del
- 1. Select the user account for which you wish to configure authorization changes.

2. Adjust the user authorization in the permission menus.

Group List	Account
Group Name Description	Name admin Group
Administr	Password Expiry Date
Power Us	Password Expiry
Restricted	Date Day(s) Votice
Standard	Change password at first login E-Mail
	Phone Description
	Permission
	Server
	Shut Down 🖌 DB Alloc 🖌 Remote Upgrade
Add Del	Configuration
User List	Login Camera Audio Alarm Monitor
User Name Description	Recording Schedule Motion Emergency Video Loss
admin	E-Mail Backup Network DDNS Control
· · · · · · · · · · · · · · · · · · ·	Setting Date/Time Information Masking Zone
	Camera
	<u>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16</u>
	Login Playback PTZ Control Covert Channel Backup
Add Del	Search

3. Click on the " \mathbf{OK} " button to save the changes in authorization.



6.7.2 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.

									GANZ	
	Сал				Network	System	1			
		User	Setting	Date/Time	Information	1::	_		2008/01/02	
Instant P Playb	Playback Time			Instant Back Backup						2
Time	setup should be com	5 min pleted within 3 m	0 • sec	Time	0 + hou	µr <u>5</u> ♥ m	in <u>o</u> sec	s	erver List	20
				Watermark			K. W		ZR-DHC1630NP E M Camera (16)	
Auto De	iete se Auto Delete			Waterman		Not Used	•		- Camera 1 - E Camera 2	
DB R	etention Time	6 н	lour(s) 🔸	Display	1	Not Used			Camera 4	
(The	maximum retention ti	ne is 6 months.)		Masking Zor OSD		Not Used	•		Camera 5	5
Video F	ormat			System Auto				J	Camera 7	
ONT	SC OP			Use					Camera 1	
		nomaucaily.)		Cycle	_	- 20	Day 1		Camera 1	
Recordi		verwrite		1 Day	00 : 00 :	00 🖨	Day 1		Camera 1	15
	vent Data Protection				00.00.	00			E 🖸 Alarm In (16)
				Language	En	glish	•		🗄 🌰 Alarm Out (4	+)
					em will restart a	and the second second				
Etc								7		
	og Information	In	nport/Export]						
IS Setting										
	playback t screen, the		• •	•		•			Playback	
tant l live s to De Us Di	backup tin screen, the elete : This se Auto De B Retentio	playback ne : Setu playback is the au elete : Se n Time :	will star up the ins will star to delete et up auto Set up E	t by the s stant bac t by the s data fun delete f DB retent	set time kup time set time ction aff unction. ion time	hen you period in e. When y period in ter DB re	click on th this men you click o the ment	ne u. on the u. ne.	Enstant) Back	
live s tant l live s to De Us Di nterm	backup tin screen, the elete : This se Auto De B Retentio ark : Set w Vatermark	playback ne : Setu playback is the au elete : Se n Time : hether th : Enable	k will star up the ins k will star to delete et up auto Set up E ne waterr or disabl	t by the s stant back t by the s data fun o delete f DB retent mark feat le watern	set time kup time set time ction aff unction. ion time ure is en nark fea	hen you period in e. When y period in ter DB re ncrypted ture.	click on th n this men you click o n the ment tention tin with recor	ne u. on the J. ne.	Enstant) Back	up
live s tant l live s to De Di nterm	backup tin screen, the elete : This se Auto De B Retentio ark : Set w Vatermark	playback ne : Setu playback is the au elete : Se n Time : hether th : Enable	k will star up the ins k will star to delete et up auto Set up E ne waterr or disabl	t by the s stant back t by the s data fun o delete f DB retent mark feat le watern	set time kup time set time ction aff unction. ion time ure is en nark fea	hen you period in e. When y period in ter DB re ncrypted ture.	click on th n this men you click o n the ment tention tin with recor	ne u. on the J. ne.	Eack	up
tant l live s to De Di nterm	backup tin screen, the screen, the elete : This se Auto De B Retentio ark : Set w Vatermark bisplay : W	playback ne : Setu playback is the au elete : Se n Time : thether th : Enable hen reco	will star up the ins will star to delete to delete to p auto Set up E ne waterr or disabl rded pict	t by the s stant bac t by the s data fun delete f DB retent mark feat le watern ure is pla	set time kup time set time ction aff unction. ion time ure is en nark fea ayed bac	hen you period in period in ter DB re ncrypted ture. ck, the dis	click on th this men you click o the ment tention tin with recon	ne u. on the J. ne. rded dat	Eack	up
tant l live s to De Di term	backup tin screen, the screen, the elete : This se Auto De B Retentio ark : Set w Vatermark bisplay : W	playback ne : Setu playback is the au elete : Se n Time : hether th : Enable hen reco ark encry ta, the G	will star up the ins will star to delete to delete tup auto Set up E ne waterr or disabl rded pict pts the d ANZ sys	t by the s stant back t by the s data fun o delete f DB retent mark feat le watern ure is pla	set time kup time set time ction aff unction. ion time ure is en nark fea ayed bac ch a wa detect th	hen you period in period in ter DB re hcrypted ture. ck, the dia	click on th n this men you click on the ment tention tin with recons splay will nen anyon	ne u. on the J. ne. rded dat indicate	that a wate	up
live s tant l live s co De Us Di term V D	backup tin screen, the screen, the elete : This se Auto De B Retentio ark : Set w Vatermark bisplay : W [Note] • Waterma picture da or tamper	playback ne : Setu playback is the au slete : Se n Time : thether th : Enable hen reco ark encry ta, the G ing video ect the p	will star up the ins will star to delete et up auto Set up E ne waterr or disabl rded pict rded pict rgts the d ANZ sys given fo	t by the stant back t by the stant back t by the stant by the stant by the stant by the standard fund o delete f DB retent mark feat le watern ure is pla lata in su tem can or evidence mat type	set time kup time set time ction aff unction. ion time ure is er nark fea ayed bac ch a wa detect th ce. which t	hen you period in period in ter DB re ncrypted ture. ck, the dis y that wh he chang he came	click on the nem of the men of th	ne u. on the J. ne. rded dat indicate e tries to prevents	that a wate	erm
live s tant l live s to De Us Di uterm V D	backup tin backup tin screen, the elete : This se Auto De B Retentio ark : Set w Vatermark bisplay : W [Note] • Waterma picture da or tamper	playback ne : Setu playback is the au slete : Se n Time : thether th : Enable hen reco ark encry ta, the G ing video ect the p	will star up the ins will star to delete et up auto Set up E ne waterr or disabl rded pict rded pict rgts the d ANZ sys given fo	t by the stant back t by the stant back t by the stant by the stant by the stant by the standard fund o delete f DB retent mark feat le watern ure is pla lata in su tem can or evidence mat type	set time kup time set time ction aff unction. ion time ure is er nark fea ayed bac ch a wa detect th ce. which t	hen you period in period in ter DB re ncrypted ture. ck, the dia y that wh he chang he came	click on the nem of the men of th	ne u. on the J. ne. rded dat indicate e tries to prevents	ta. that a wate o alter the forgery	up erma



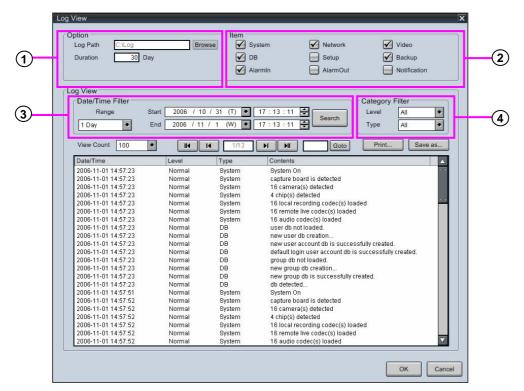
Camera Recording Event	Backup Network System	GANZ
User Setting Da	ite/Time Information	2008/01/02
Instant Playback Time Playback	Instant Backup Time Backup 0 ♦ hour 5 ♦ min 0 ♦ sec Watermark Watermark Not Used ♦ Display Not Used ♥ Masking Zone OSD Not Used ♥ System Auto-Restart Use Cycle 1 Day 30 Day 1 Time 00 : 00 : 00 ♀ Language Language English ♥ ('The System will restart automatically.)	21:46:59 Camera 1 Camera 4 Camera 4 Camera 4 Camera 3 Camera 3 Camera 4 Camera 4 Camera 6 Camera 7 Camera 7 Camera 7 Camera 8 Camera 11 Camera 11 Camera 11 Camera 11 Camera 13 Camera 13 Camera 16 Camera 16 Camera 10 Camera 10 Cam
Etc Information Import/Export	OK Cancel Apply	

- **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.
- (8) 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.
- (9) Languages : Select an appropriate language for the country of installation.
- (10) Log information : Search and view the system log information.
- (1) 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.

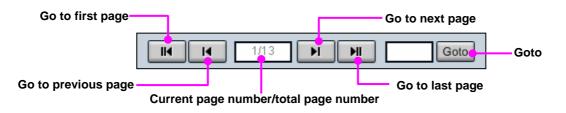
(3) Date/time filter : Set the scope of the log data displayed in the search.
 Range : Select the search range by the number of days.
 Start : Select a start date to search.
 End : Select an end date for the search
 Search : Click on the "Search" button, then the data will be displayed between set parameters.

(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.



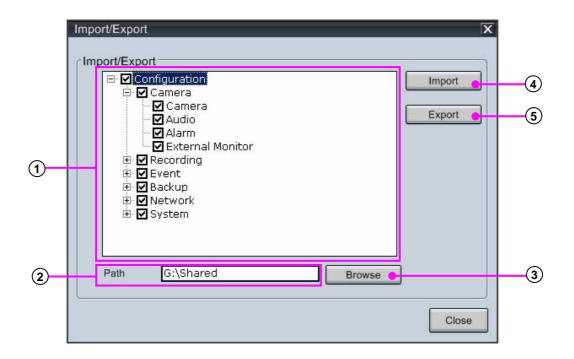
	Log View X Option Log Path C:\Log Duration 30 Day DB Setup Video V DB Setup V Backup V Alarmin AlarmOut Notification	
	Log View Date/Time Filter Range Start 2006 / 10 / 31 (T) 17 : 13 : 11 Search Level All Type All All All All All All All All	\sim
(5)	View Count 100 View C	(8)
9	Date/Time Level Type Contents 2006-11-01 14:57:23 Normal System System Capture board is detected 2006-11-01 14:57:23 Normal System Capture board is detected 2006-11-01 14:57:23 Normal System 16 camera(s) detected 2006-11-01 14:57:23 Normal System 16 camera(s) detected 2006-11-01 14:57:23 Normal System 16 local recording codec(s) loaded 2006-11-01 14:57:23 Normal System 16 nernote live codec(s) loaded 2006-11-01 14:57:23 Normal DB user db not loaded. 2006-11-01 14:57:23 Normal DB new user account db is successfully created. 2006-11-01 14:57:23 Normal DB new user account db is successfully created. 2006-11-01 14:57:23 Normal DB new group db creation 2006-11-01 14:57:23 Normal DB new group db reston 2006-11-01 14:57:23 Normal DB new group db not loaded. 2006-11-01 14:57:23 Normal DB new group db is successfully created. 2006-11-01 14:57:24 Normal DB <t< th=""><th></th></t<>	
	OK Cancel	

- (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



- () 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.



6.7.3 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.

	Configuration	×
		GANZ
	Camera Recording Event Backup Network System User Setting Date/Time Information	
		2008/01/03 00:05:20
	Date/Time 2008 1 1 3 (T) ▼ 20 : 04 : 22 ♥ Update	00() =1-
<u>_</u>	Time Zone (GMT+09:00) Seoul	Server List
\bigcirc	Date Format YYYY/MM/DD Image: Delemiter Image: Delemiter Time Format h:mm:ss (h=hour, m=minute, s=second, t=am or pm, hh=12hour, HH=24hour)	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □ ■ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	Calendar Format MTWTFSS	Camera 2
	NTP synchronization	Camera 4
	NTP Time Server time.nuri.net	Camera 6
(2)	Synchronize NTP Time	Camera 8
U	Automatic Setup	Camera 10
	Schedule Time Synchronization	Camera 12
	Hourly I hour	Camera 14
	⊖Daily 11 Day 17 : 31 : 00 😴	Camera 16
	Overwrite Option	Alarm Out (4)
	Warning! You are about to set the system clock to a time value earlier than the current system time.	
(3)	Select one of the options below to complete the time change. Accept new system time and delete data recorded between the current time and the newly set	
J	- une.	
	Confirm accept new system time, do not delete previously recorded data, and commence @recording only after system time has exceeded recorded time. (Data will not be recorded until, after the system clock has matched any previously recorded time periods.)	
		J
	GMS Setting OK Cancel Apply	

(1) Date/Time Setup : Set up the time/date, time zone, date and time format, calendar format.

[Note] Calendar Format

- · Calendar Format function is to select what day is displayed at first.
- The basic value is displayed from Sunday.
- S, M ,T, W, T, F, S : from Sunday.
- M, T, W, T, F, S, S : from Monday.
- S, S, M, T, W, T, F : from Saturday.

2 NTP Sychronizatino :

NTP Time Server : Enter 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.

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.

(3) 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 old start writing once new time reaches the end of the previously recorded data.



6.7.4 Information

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

Camera Recording	Event Backup Network <mark>System</mark>	2006/11/01
User Sett	ng Date/Time Information	09 : 00 : 35
System Operating System: Microsoft Windows XP Embedded System: Service Pack 2 (Build 2600) CPU: Intel(R) Pentium(R) 4 CPU 2.80GHz Memory: 512 MB Graphic Card: RADEON X300/X550 Series (Omega 3.8.221) Lan Card: Marvell Yukon 88E8053 PCI-E Gigabit Ethernet Controller Disk Drive System Alloc Size: Local C Drive System Alloc Size: 144.05 GB Alloc Size: 144.05 GB	System Info System Name GANZ Location Office Version Version 1.0.0.4 (20061027) Model ZR-DHC1630NP Administrator admin	Server List Server List Camera 1 Camera 1 Camera 1 Camera 3 Camera 3 Camera 4 Camera 4 Camera 6 Camera 6 Camera 7 Camera 10 Camera 10 Camera 10 Camera 11 Camera 10 Camera

(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

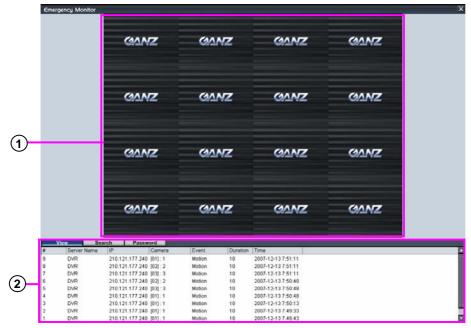
The Emergency Monitor can receive the DVR status (motion, object watch, video loss, alarm-in) with pictures from the DVRs throughout the network.



When user click "GMS Emergency Monitor" icon, The following login message for Emergency Monitor application wil be displayed. (Initial Password is set as "111111")

Login		X
Password	****	
	OK Cancel	

7.2 Emergency Monitor screen



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

2 View/Search :

View tab : Displays the connected DVR information and event log.

	View Sea	rch Pa	ssword				
#	Server Name	IP	Camera	Event	Duration	Time	
9	DVR	210.121.177.	240 [01]:1	Motion	10	2007-12-13 7:51:11	
8	DVR	210.121.177.	240 [02]:2	Motion	10	2007-12-13 7:51:11	
7	DVR	210.121.177.	240 [03]:3	Motion	10	2007-12-13 7:51:11	
6	DVR	210.121.177.	240 [02]:2	Motion	10	2007-12-13 7:50:48	
5	DVR	210.121.177.	240 [03]:3	Motion	10	2007-12-13 7:50:48	
4	DVR	210.121.177.	240 [01]:1	Motion	10	2007-12-13 7:50:48	
3	DVR	210.121.177.	240 [01]:1	Motion	10	2007-12-13 7:50:13	
2	DVR	210.121.177.	240 [01]:1	Motion	10	2007-12-13 7:49:33	
1	DVR	210.121.177.	240 [01]:1	Motion	10	2007-12-13 7:48:43	



Server Name DVR DVR	IP 210.121.177.240 210.121.177.240	Camera [01]:1	Event Motion	Duration		Server
		[01]:1	Motion	4.0		
DVR	240 424 477 240			10	2007-12-13 7:51:1	Server
	Z10.1Z1.177.Z40	[02]:2	Motion	10	2007-12-13 7:51:1	All
DVR	210.121.177.240	[03]:3	Motion	10	2007-12-13 7:51:1	Event
DVR	210.121.177.240	[02]:2	Motion	10	2007-12-13 7:50:4	
DVR	210.121.177.240	1 [03]:3	Motion	10	2007-12-13 7:50:4	All
DVR	210.121.177.240	[01] : 1	Motion	10	2007-12-13 7:50:4	Channel
DVR	210.121.177.240	[01] : 1	Motion	10	2007-12-13 7:50:1	All Search
DVR	210.121.177.240	1 [01]:1	Motion	10	2007-12-13 7:49:3 🔽	
	DVR DVR DVR DVR	DVR 210.121.177.240 DVR 210.121.177.240 DVR 210.121.177.240 DVR 210.121.177.240 DVR 210.121.177.240	DVR 210.121.177.240 [02]: 2 DVR 210.121.177.240 [03]: 3 DVR 210.121.177.240 [01]: 1 DVR 210.121.177.240 [01]: 1	DVR 210.121.177.240 [02]: 2 Motion DVR 210.121.177.240 [03]: 3 Motion DVR 210.121.177.240 [01]: 1 Motion DVR 210.121.177.240 [01]: 1 Motion DVR 210.121.177.240 [01]: 1 Motion	DVR 210.121.177.240 [02]: 2 Motion 10 DVR 210.121.177.240 [03]: 3 Motion 10 DVR 210.121.177.240 [03]: 3 Motion 10 DVR 210.121.177.240 [01]: 1 Motion 10 DVR 210.121.177.240 [01]: 1 Motion 10	DVR 210.121.177.240 [02]: 2 Motion 10 2007-12-13 7:50.4 DVR 210.121.177.240 [03]: 3 Motion 10 2007-12-13 7:50.4 DVR 210.121.177.240 [01]: 1 Motion 10 2007-12-13 7:50.4 DVR 210.121.177.240 [01]: 1 Motion 10 2007-12-13 7:50.4 DVR 210.121.177.240 [01]: 1 Motion 10 2007-12-13 7:50.4

Search tab : Displays the event log list, set up search condition field (Server, Event, Channel) and then press the "Search" button

Password tab : The following message for changing password on login will be displayed.

New Password		X
Password	****	
New Password	****	
Confirm New Password	****	
	OK Cancel	



8.1 Opening Event Monitor

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

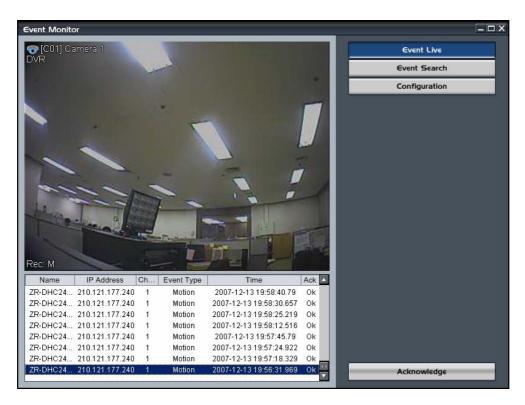


Click on the

0

button to run the Event Monitor application.

8.2 Event Monitor screen





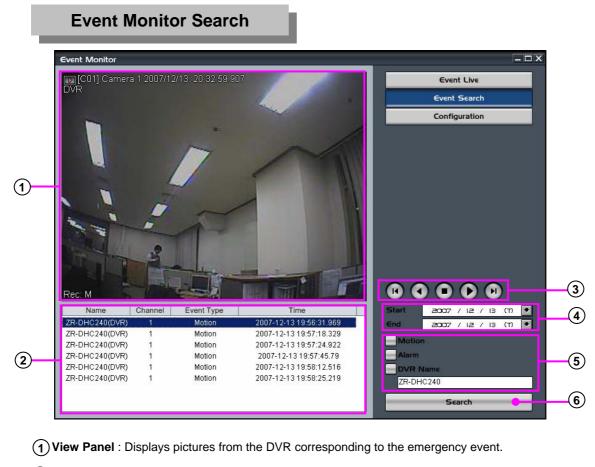
- 🗆 X Event Monitor 3 IC011 Camera 1 Event Live Event Search 4 Configuration (1)Rec IP Address Ch... Event Type Name Time Ack ZR-DHC24... 210.121.177.240 1 Motion 2007-12-13 19:58:40.79 Ok ZR-DHC24... 210.121.177.240 Motion 2007-12-13 19:58:30.657 Ok ZR-DHC24... 210.121.177.240 Motion 2007-12-13 19:58:25.219 Ok (2) ZR-DHC24... 210.121.177.240 Motion 2007-12-13 19:58:12.516 Ok ZR-DHC24... 210.121.177.240 Motion 2007-12-13 19:57:45.79 Ok ZR-DHC24... 210.121.177.240 Motion 2007-12-13 19:57:24.922 Ok Motion 2007-12-13 19:57:18 329 7B-DHC24 210 121 177 240 Ok ZR-DHC24... 210.121.177.240 2007-12-13 19:56:31.969 Ok (6) Motio Acknowledge

- (1) **View Panel** : Display pictures from the DVR corresponding to the emergency event.
- 2 Event Log List : Display Event log from DVR. The maximum number of event log is 1000 logs. Over 1000 logs, it will start to delete initial event log firstlys.
- **3** Event Live Button : It is a button to enter to Event Live mode.

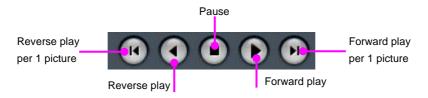
Event Monitor Live

- **(4)** Event Search Button : It is a button to enter to Event Search mode.
- **(5)** Configuration Button : It is a button to enter to Event Configuration mode.
- 6 Acknowledge Button : It is a button to check event items one by one on Event Log List. This is used when Acknowledge function is set as manual mode.





- 2 Event Log List : It's searching event item list. When user click event list, releated event image will be displayed.
- 3 Playback Button : It's button to playback related event item image



- 4 Start & End : Set up a time length which user want to search among received events from DVR.
- (5) Event Search Item : Select an item which user want to search.
 Motion : Display only Motion events from all received events.
 Alarm : Display only Alarm events from all received events.
 DVR Name : Display all events of DVR from all received events. (Motion, Alarm In, Object Watch, Video Loss)
- **6** Search Button : Display events related with search condition when pushing "Search" button.



Event Monitor Configuration

	Event Monitor	- D X
1	Setting PEnable Auto Pop-up Currents Automatically	Event Live Event Search
2	✓ Execute Automatically Display Mode	<u>Configuration</u>
3	Acknowledge ●Use auto acknowledge Acknowledge 10 → sec ●Use manual acknowledge	
4	Event Setup View Count	
5	Log DB Setup C:\GMS\\log_db\\log_db.\dat Log DB Size (MAX IGB)	
	Apply	

1 Setting :

Enable Auto Pop-up: When it receive Event Message (Motion, Object Watch, Video Loss, Alarm In) from DVR server, "Event Monitor" Application is pop up always automatically on top portion of screen.

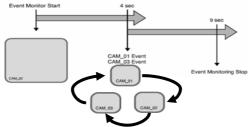
Execute Automatically: When executing "GMS Live View" Application, it executes automatically "Event Monitor" Application.

2 Display Mode :

Keep sequence interval: When receiving events from several channel, it moves to the occurred event screen. In case of setting Display interval for 5 seconds, when it initially occurs event on channel #2 like below image, it will display the channel #2 for 5 seconds.

Also in 5 seconds, when another event will occur again, it will display event with previous event.

For example, when event occurs on the channel #2, and the others events occur on the channel #1,2,3 screen in 5 seconds, it changed sequentially about the channel #1,2,3 screen.



Switch to new event Immediately: When events occur on several channels, the latest event channel will be displayed for the specified interval.

3 Acknowledge :

Use auto acknowledge : It's function to check automatically received events. Each event take Acknowledge. Over Acknowledge time, it check automatically event items.

Use manual acknowledge: It's function to check received events by clicking "Acknowledge" manually.



(4) Event Setup :

View Count : Set up the maximum event number on Event View. Over the maximum number, The initial event will be deleted, and the acknowledge information related with event will be deleted as well.

(5) Log DB Setup : Set up a path recorded event item info & DB size. Maximum 1GB can be set up. When event occurs on DVR, received image and event info will be recorded on Log DB.



8. Remote Up-grader

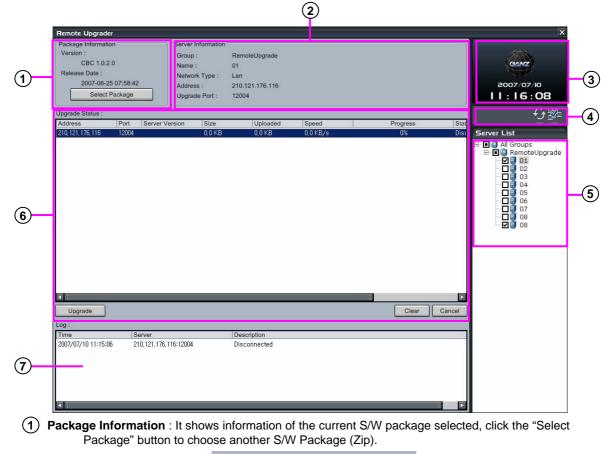
9.1 Opening Remote Up-grader

Remote Up-grader application allows the user to up-grade multiple DVR systems to a new version of software easily by network.



Click on the "Upgrade" button to run the GMS Remote Up-grader application.

9.2 Remote Up-grader screen





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(2) Server Information : Displays detailed information for the DVR selected in the server list.

Server Information	
Group :	RemoteUpgrade
Name :	01
Network Type :	Lan
Address :	210.121.176.116
Upgrade Port :	12004

3 Time display : Displays the logo and time.

(4) Menu :



Reload Server List :The DVR server list information can be refreshed by the <u>use</u> button. **Server Search** : Search GMS for existing DVR accounts to add to the DVR Server list

Press the *button*, then the search window is displayed as below, then enter the information of DVR that you want to search.

Server Search	X
Group :	GANZ
Name :	ZR-DHC1630NP
Network Type :	Lan 💌
Address :	192.121.177.262
Upgrade Port :	12004
	OK Cancel

(5) Server List : Displays current DVR details in list format. Remote Up-grader can upgrade any DVR in the list. To renew the list, click "Reload Server"

(6) Upgrade Status : Displays the information about any unit being upgraded.

Upgrade : If the upgrade button is pressed then the selected S/W Package will be uploaded to the ticked DVR on the server list.

Clear : Delete an up-grade item from the list.

Cancel : Cancel the up-grade of a DVR currently in progress.

(7) Log : Displays information of previous upgrades.

[Note]

• Do not use up-grade when the package version is lower than the DVR version

• Log off is compulsory between remote Up-grader and DVR if there isn't any action or reply within 30min duration.

• If transmitting S/W Package to DVR fails it will retry access three times.



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
RICOH	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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