

CENTRAL MANAGEMENT SYSTEM

User's Manual

Version 1.0.5.9

Digimerge Technologies Inc.

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1. INTRODUCTION

With this CMS, Central management software allows administrator to manage several DVR systems through network located in different sites from one point of control. You can monitor the DVRs through network at any time. You can also proceed to set up the remote system configuration

Unlimited number of devices

This CMS is enterprise-level software which encompasses monitoring of up to 64 different sites and enables recording of an unlimited number of cameras. The CMS connects, monitors, manages and records all Artnix DVR family products and IP server family products.

Unlimited e-map

The location of a site does not have to be restricted to just one map. Different views and different angles can be added for strategic camera placement and status updates.

Multiple monitor support

This CMS allows detachment of its six major components: live view, health status, e-map, playback, preview, and camera groups for simultaneous, detailed control and accurate monitoring at a glance.

Status report

This CMS reports the status of each device in real-time so that immediate responses can be deployed. Visual and Audio cues are displayed in various screens to attract an immediate attention.

2. SYSTEM REQUIREMENTS

Before installing this CMS, make sure that your computer meets the following recommended requirements as shown in Table 1.

Table 1. Hardware Requirements

	Recommended
OS	Windows XP or Vista
CPU	Pentium IV 2.8 Ghz
RAM	512MB
Video Card	128MB
Free Space	2GB
Resolution	1024x768x32
DirectX	DirectX 9.0c
Network	Ethernet 10/100B-TX
Port	Port 5400 ~ 5499 TCP

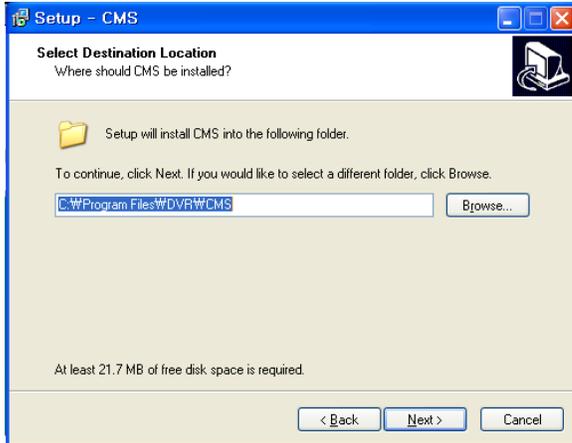
3. INSTALLATION



Insert the program CD into the CD-ROM or DVD-ROM drive of the computer and you can see the CMS_Setup.exe file.

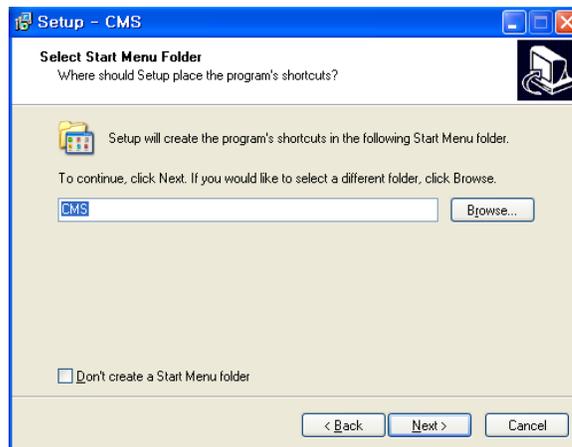
Double-click on the setup file, and the program will start the installation.

Click on Next to continue.



The CMS will be installed in its default folder of C:\Program Files\DVR\CMS. If the folder needs to be changed, click on “Browse...” button and then select a different folder.

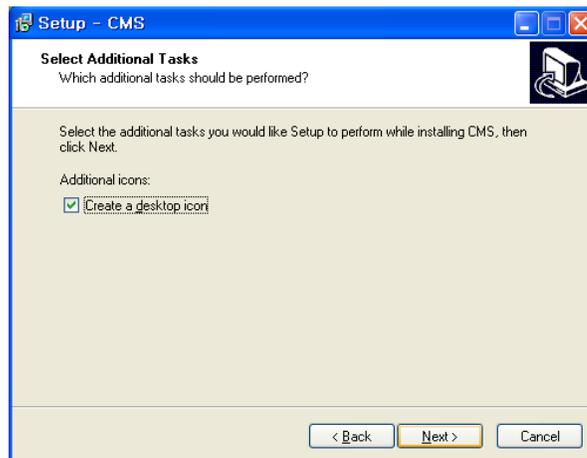
If you select the folder to be installed, click the **Next** button to continue.



The program’s shortcuts will be installed in its default folder of CMS. If the folder needs to be changed, click on “Browse...” button and then select a different folder.

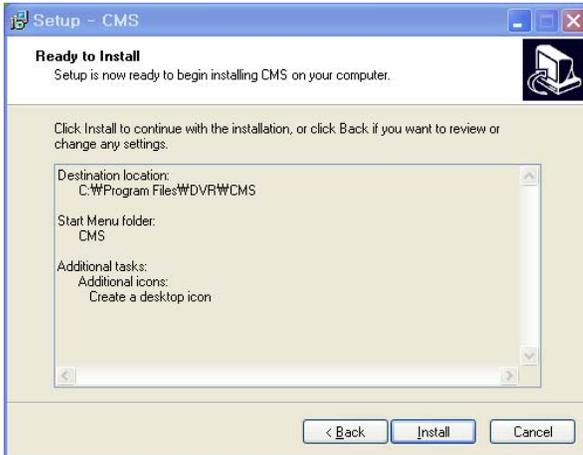
And if you don’t want to create the program’s shortcut in the start menu, check the “Don’t create a Start Menu folder” below.

If you select the folder to be installed, click the **Next** button to continue.

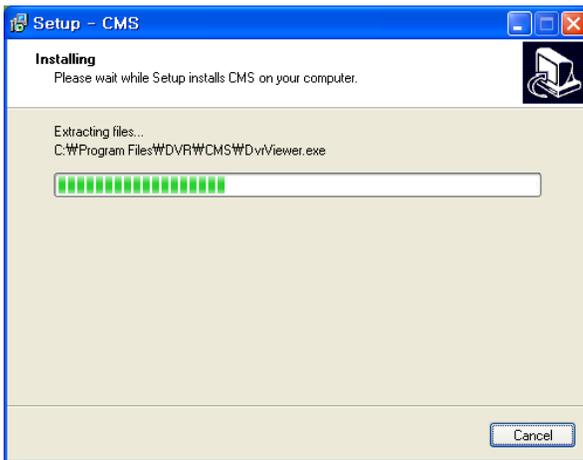


Click the **Next** button.

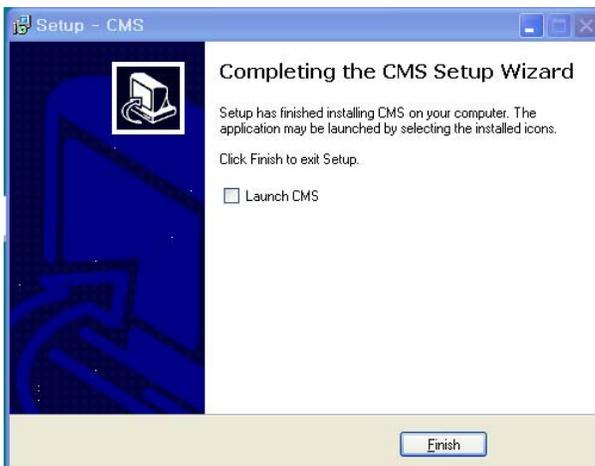
If you don’t want to create a desktop icon, do not check the “Create a desktop icon”.



Click the **Install** button to install CMS.



And the program will start the installation.



Click the **Finish** button to complete the installation.

If you want to open the CMS now, check the "Launch CMS" and then click the **Finish** button.

4. STARTING CMS SOFTWARE

Locate the CMS icon on the desktop and double-click on it to run the software. The program can also be located in START-Programs-CMS.

4.1 Creating administrator's password



When the CMS is run for the first time, it will ask for the administrator's password. Input a password of up to 20 alphanumeric characters in Password and Confirm Password and click the "Submit" button.

NOTE: You have to input the setting password whenever run the CMS so please note it not to forget.



And you can see the message window like the left picture.

Click the "OK" button.



Input the registered password and click the "OK" button.

4.2 Creating a new user's password



If you want to create a user password additionally, click the “Options>>” button and you can see “Register New User” item like the left picture. Check the “Register New User”.



And you can see the password window to create the user's password.

Input the desired user name, password and confirm password and then click the “Submit” button.



And you can see the message window like the left picture.

Click the “OK” button.

4.3 Login

There are two kinds of password, Administrator password and User password. Each one has different authority.

- Administrator: Can control all functions of the CMS and authorize each user.
- User:
 - ① Can see “Group” and “Live Screen”.
 - ② Can see “Preview” on E-map but cannot change, add or delete the location.
 - ③ Can see DVR name, Channel number, DVR type and Status on “DVR List” but cannot enter “DVR menu” and “DVR copy” window.

- ④ Cannot enter "Data Search" window and "System log" window.
- ⑤ Cannot change the record setup
- ⑥ Can set up only some parts in Option menu.

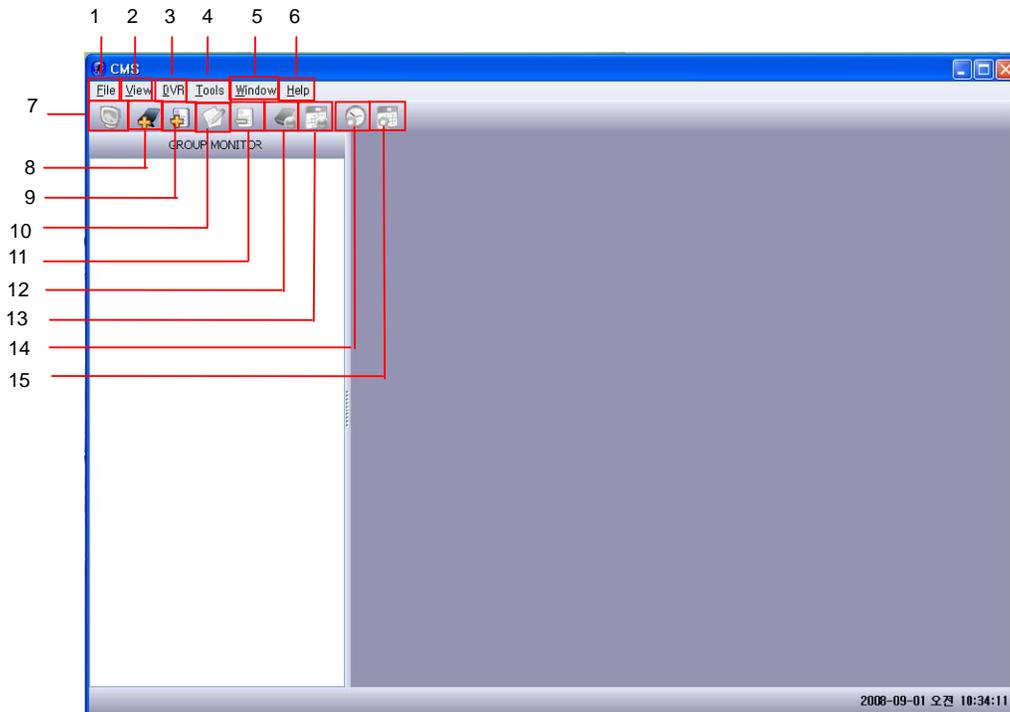


Input a User name and a Password on the left password window and then click "OK" button.

5. CMS main window-Layout

If you login successfully, the following CMS main window will be appeared.

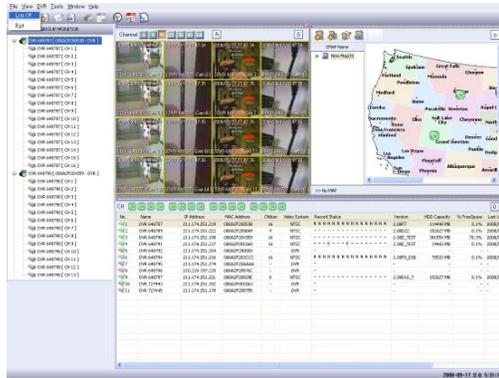
The main window provides the entire functionality, the control of CMS and the status of connected DVRs.



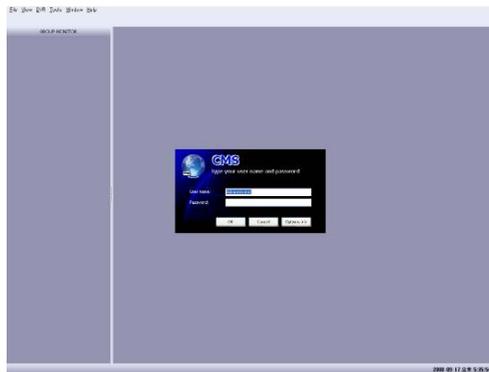
5.1. File

5.1.1. Log Off

You can log off when you step out.

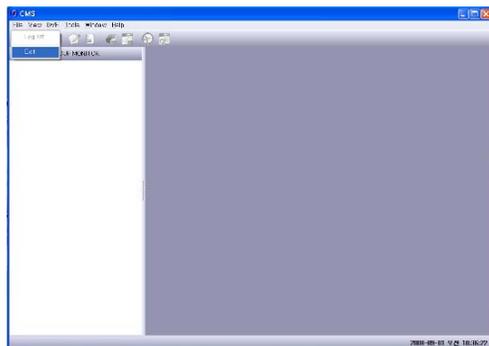


Click on “File” and then click on “Log Off” to log off the CMS.



And you can see the left password window. If you want to log in the CMS again, you have to input the password and click the “OK” button. If you want to close the CMS window, click the “Cancel” button.

5.1.2. Exit



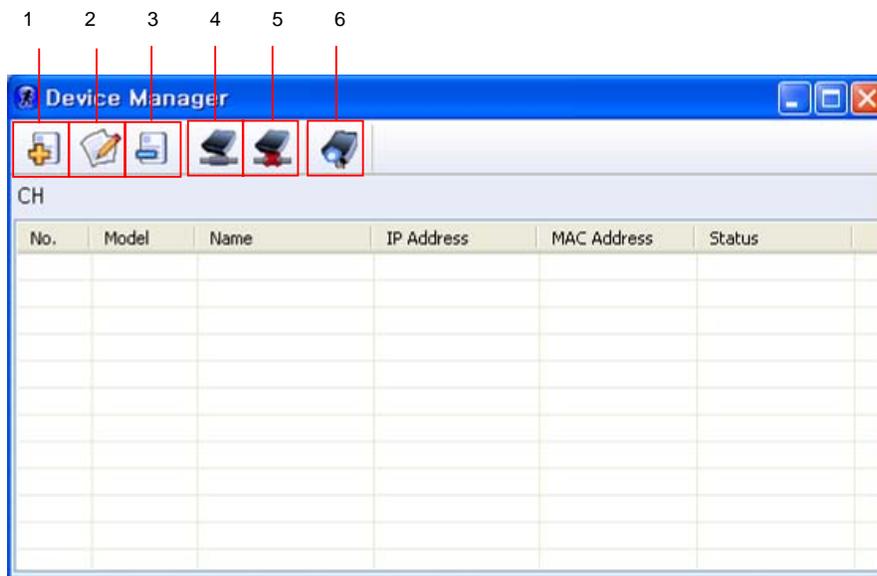
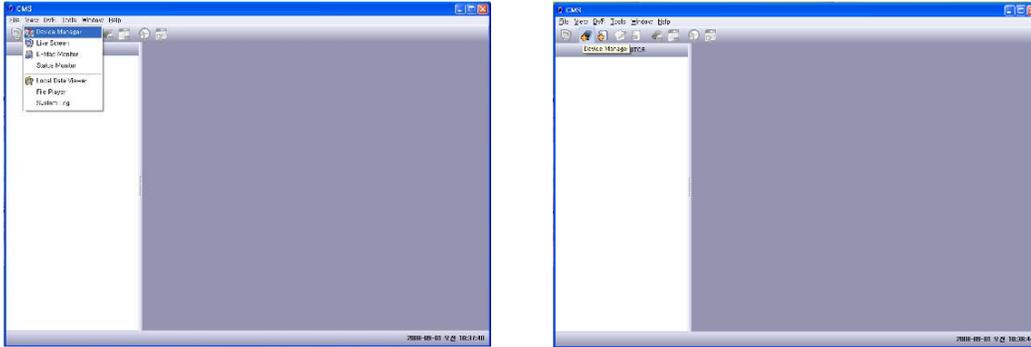
Click on “File” and then click on “Exit” to close the CMS window.

5.2. View

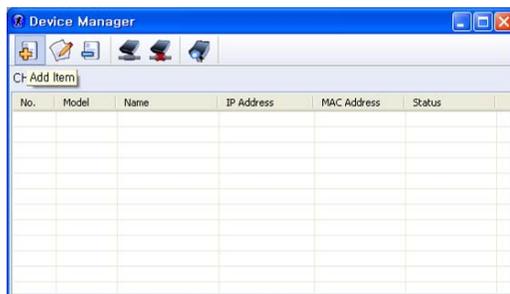
5.2.1. Device Manager

The CMS can manage DVR search, DVR list up, DVR status and data search etc.

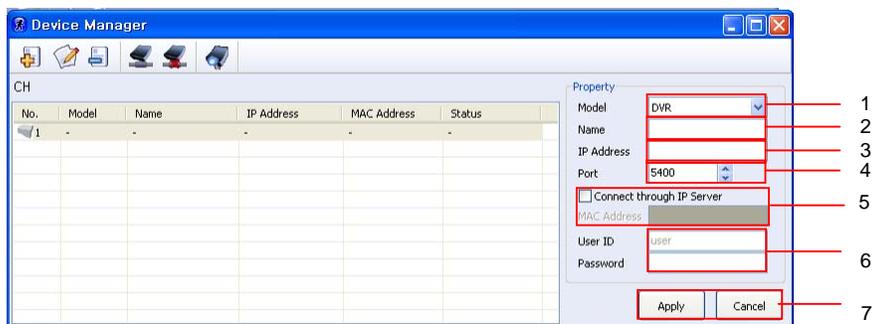
Click on “View” and click on “Device Manager” or click the Device Manager icon and you can see the Device Manager window.



5.2.1.1 Add Item



Click the “Add Item” icon to be indicated on the left picture and the below window will be open.



5.2.1.1.1 Model

Select a model, DVR or another device to be listed. The CMS can support some products of other companies to have a partnership.

5.2.1.1.2 Name

Input a desired name of DVR to be listed.

5.2.1.1.3 IP address

Input IP address of a DVR to be listed.

5.2.1.1.4 Port number

Input a Port number of a DVR to be listed.

5.2.1.1.5 Connect through IP Server and MAC Address

If you want to connect by dynamic IP, check the “Connect through IP Server” and MAC address input blank will be available.

And input MAC address of a DVR to be listed.

If you check the “Connect through IP Server”, the DVR will be connected using MAC address not IP address.

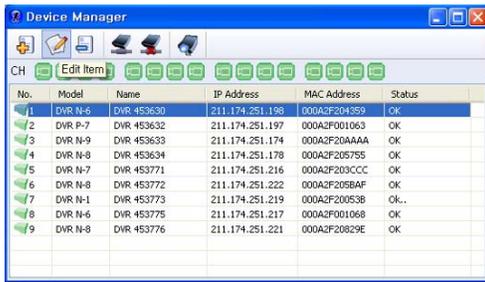
5.2.1.1.6 User ID and Password

Input User ID and Password of a unit to be listed. In case of DVR, you don't need to input user ID.

5.2.1.1.7 Apply or Cancel

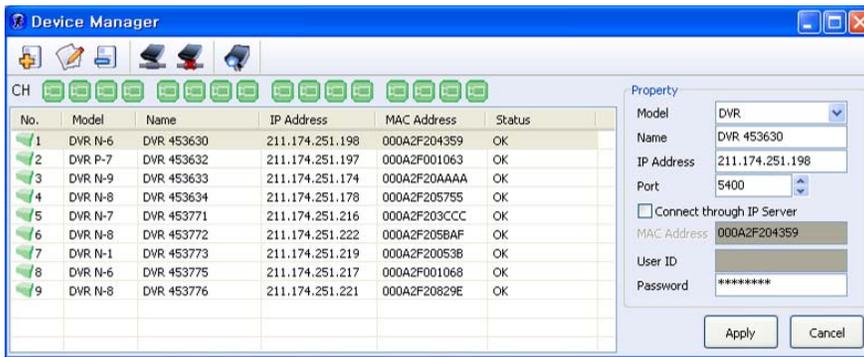
If you want to register the DVR(or another device) in the DVR list, click the “Apply” button or press the “Enter” button of keyboard. Or if you want to cancel the registration, click the “Cancel” button or press the “Esc” button of keyboard.

5.2.1.2 Edit Item

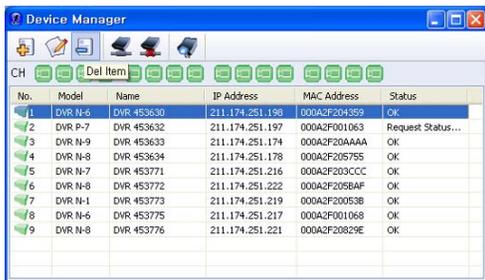


Highlight a desired DVR in DVR list and click the “Edit Item” icon to be indicated on the left picture and the below edit window will be open.

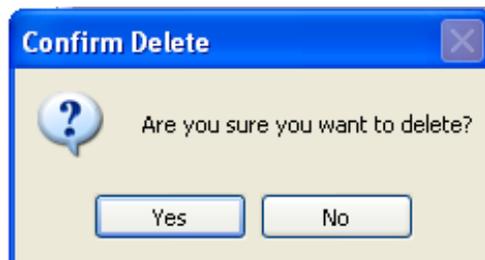
NOTE: Refer to chapter 5.2.1.1.1 ~ 5.2.1.1.7 for more information of edit window.



5.2.1.3 Delete Item



Highlight a desired DVR in DVR list and click the “Del Item” icon to be indicated on the left picture.



If you want to delete the selecting list, click the “Yes” button. Or if you don’t want to delete the selecting list, click the “No” button.

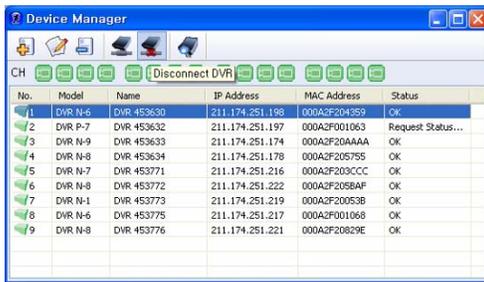
5.2.1.4 Connect DVR



Highlight a connecting DVR in DVR list and click the “Connect DVR” icon to be indicated on the left picture.

If the DVR is connected normally, you can see “OK” in Status and the DVR icon will be green.

5.2.1.5 Disconnect DVR

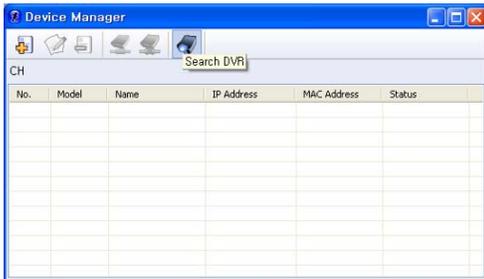


Highlight a disconnecting DVR in DVR list and click the “Disconnect DVR” icon to be indicated on the left picture.

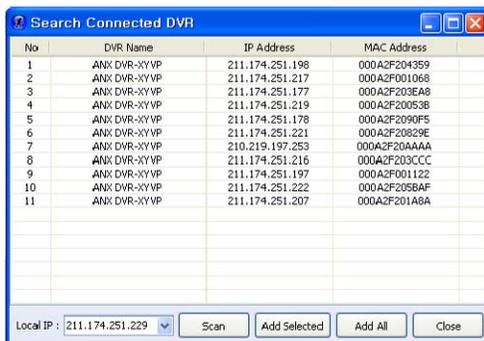
If the DVR is disconnected normally, you can see “Stopped” in Status and the DVR icon will be gray.

5.2.1.6 Search DVR

Within a local area network environment (LAN), it is possible to automatically scan and list available DVRs to be added to the DVR list.



Click the “Search DVR” icon to be indicated on the left picture.



And the left window will be open.

- Local IP: IP address of the PC to be installed CMS
- Scan: To search the available DVRs
- Add Selected: To add the selected DVR to the DVR list.
- Add All: To add all available DVRs to the DVR list.
- Close: To close the DVR search window.

5.2.1.7 Preview window display per channel

No.	Camera	Name	IP Address	MAC Address	Status
1	DVR N-6	DVR 453630	211.174.251.198	000A2F2043E9	OK
2	DVR P-7	DVR 453632	211.174.251.197	000A2F001063	Connecting_0
3	DVR N-9	DVR 453633	211.174.251.174	000A2F20A0AA	OK
4	DVR N-8	DVR 453634	211.174.251.178	000A2F205755	OK
5	DVR N-7	DVR 453771	211.174.251.216	000A2F203CCC	OK
6	DVR N-8	DVR 453772	211.174.251.222	000A2F205BAF	OK
7	DVR N-1	DVR 453773	211.174.251.219	000A2F200536	Request Status...
8	DVR N-6	DVR 453775	211.174.251.217	000A2F001068	OK
9	DVR N-8	DVR 453776	211.174.251.221	000A2F20829E	OK

Highlight a desired DVR and double-click a desired camera icon.



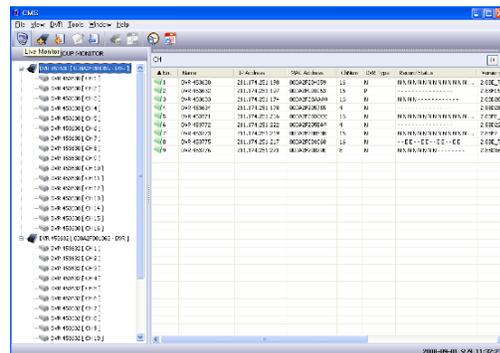
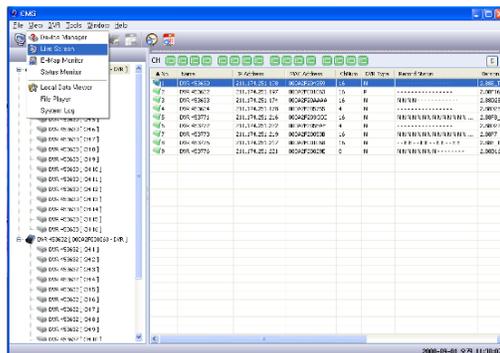
And preview window will be displayed next to the selected camera icon.

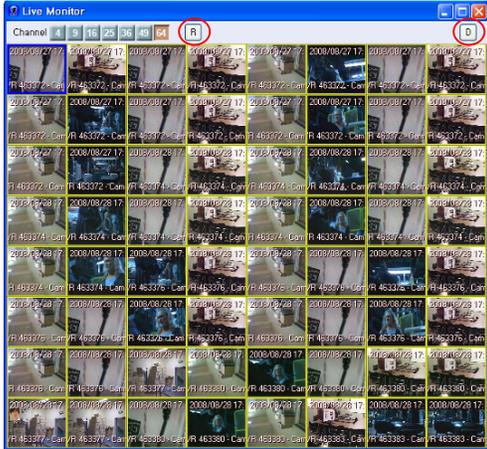
If you double-click on the preview window, the preview window will be closed.

5.2.2. Live Screen and Live Monitor

You can display up to 64 channels with this CMS.

Click on "View" and click on "Live Screen" or select a desired DVR in GROUP MONITOR and click the "Live Monitor" icon or double-click a desired DVR in GROUP MONITOR.





And you can see the live screen like the left picture. Select and drag a desired DVR or a camera from Group list or Device Manager to the live screen and the image of each channel will be displayed like the left picture.

Or if you double-click on a DVR or a Camera of Group list or click the Live Monitor icon on a DVR or a Camera of Group list, the live image to be selected will be displayed.

- R: If you click the “R” button to be indicated by the red circle of the left picture, the live screen will be arranged to 720x480, original ratio. And if you click the “R” button again, the live screen will be enlarged or reduced to meet each screen, normal ratio.
- D: If you click the “D” button to be indicated by the red circle of the left picture, the live screen will be docked to CMS main window. If you click the “x” button of the Live screen, the Live screen will be undocked.

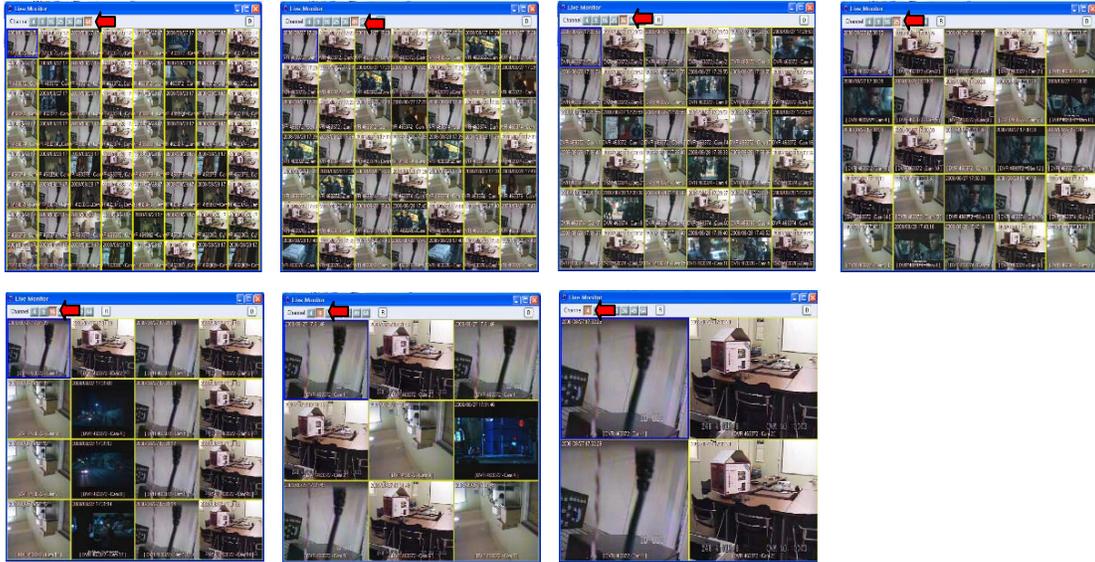


And if you select a desired camera in GROUP MONITOR and click the “Live Monitor” icon or double-click a desired camera in GROUP MONITOR, you can see the Preview window of the selected camera. If you double-click on Preview window, the Preview window will be close.

5.2.2.1 Split screen display

If you click one of the buttons to be indicated by the red arrows of the below pictures, you can see each split screen like the below pictures.

For example, if you click the “49” button, you can see the live screen of 49 split (49 channels).



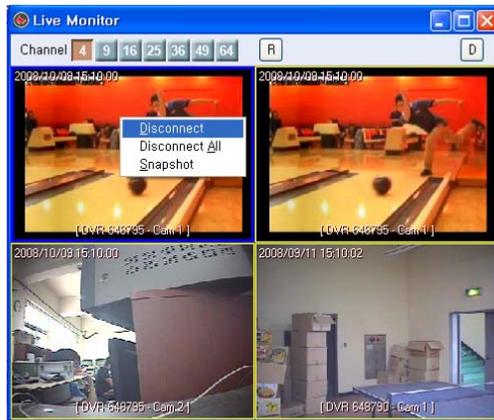
5.2.2.2 Full screen display



Double-Click a desired channel and the full screen of the channel will be displayed.

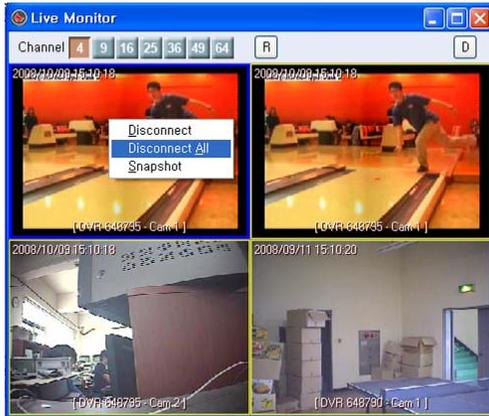
If you want to return the previous split screen, double-click on full screen again.

5.2.2.3 Disconnect one channel



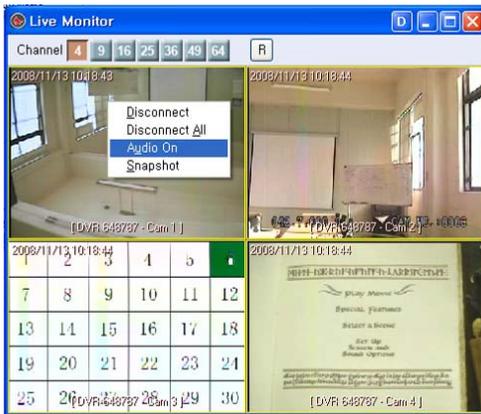
Click the right button of the mouse on a desired channel and highlight "Disconnect" and click the left button of the mouse to disconnect the selected channel.

5.2.2.4 Disconnect all channels

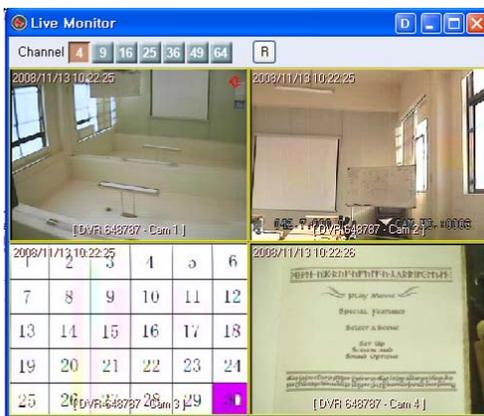


Click the right button of the mouse on a desired channel and highlight "Disconnect All" and click the left button of the mouse to disconnect all channels.

5.2.2.5 Audio On

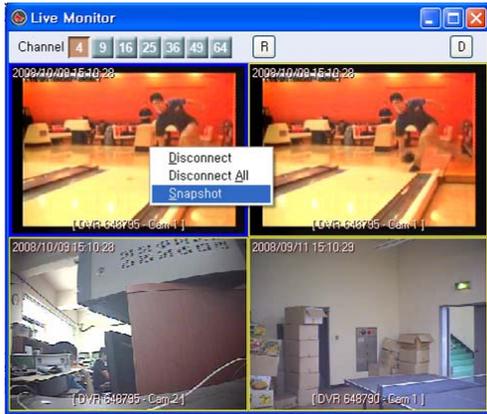


Click the right button of the mouse on a desired channel and highlight "Audio On" and click the left button of the mouse to turn on the audio.



And if the audio turns on, the audio icon will be displayed on right above the selected channel like the left picture.

5.2.2.6 Snapshot



Click the right button of the mouse on a desired channel and highlight "Snapshot" and click the left button of the mouse to capture the image.

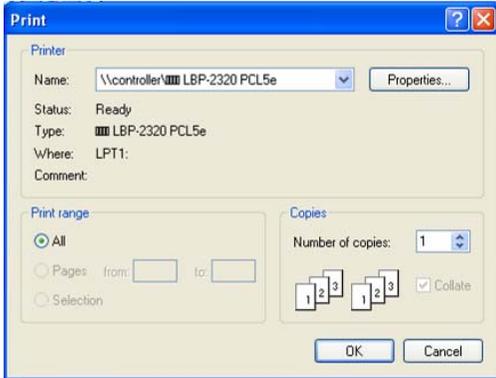


And the snapshot image window will be displayed.

5.2.2.6.1 Print a captured image



Click the "Print" button to be indicated by the red circle of the left picture to print the captured image.



Select the printer and click the “OK” button.



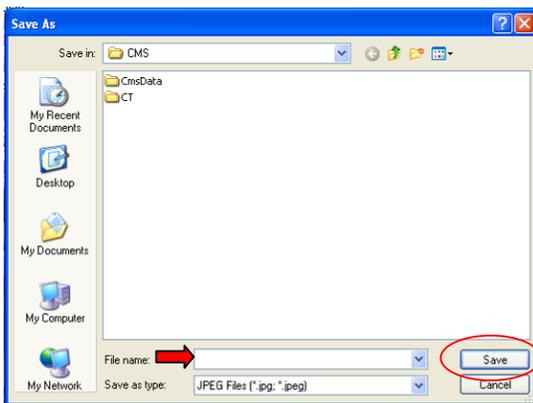
And you can see the message window like the left picture if the image is printed successfully.

And then click the “OK” button.

5.2.2.6.2 Save a captured image



Click the “Save” button to be indicated by the red circle of the left picture to Save the captured image file in your PC.



Select the folder to save the file and input a desired file name in “FILE NAME” to be indicated by the red arrow of the left picture and then click the “Save” button to be indicated by the red circle of the left picture.

The file format of the snapshot is JPEG.

5.2.2.6.3 Cancel a captured image

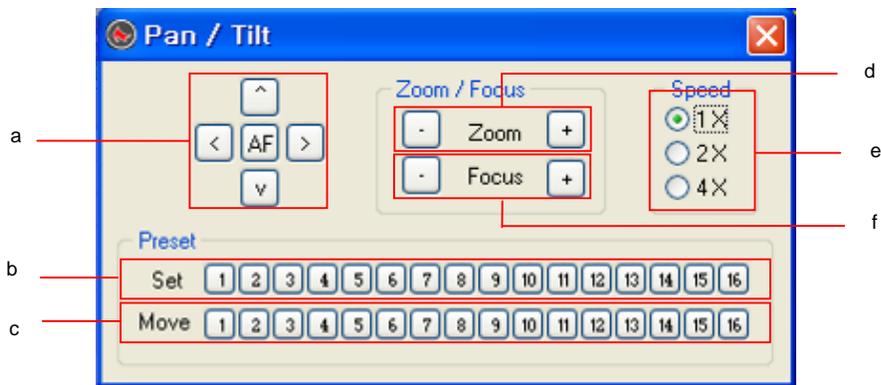


Click the “Cancel” button to be indicated by the red circle of the left picture if you don’t want to save or print the captured image.

5.2.2.7 PTZ Control



Click the right mouse button on a desired channel and highlight “PTZ Control” and click the left mouse button to open the PTZ control bar.



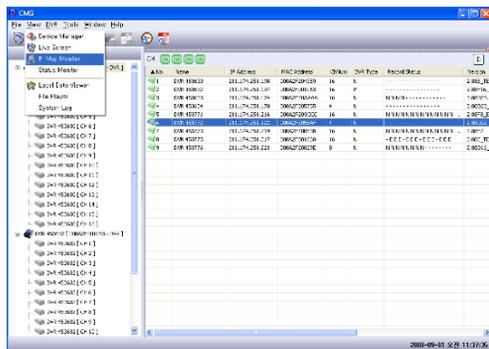
Pan, Tilt and Zoom cameras can be controlled remotely through the CMS.

- a. Directional buttons / Autofocus
 - Move the PTZ camera using the directional buttons.
 - Toggle Autofocus on or off by clicking on AF.

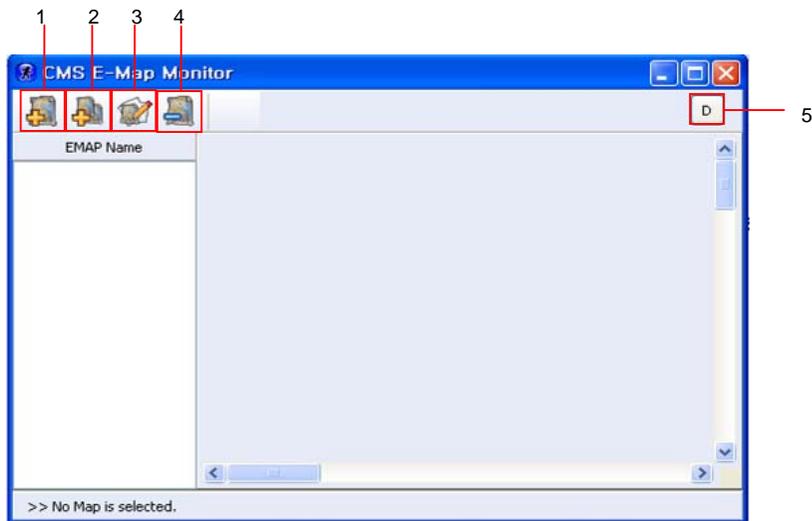
- b. Set preset points
Move the PTZ camera to the desired location, and then click on any of the 16 buttons to set a preset position.
- c. Move to preset points
Click on any of the 16 buttons to move the PTZ camera to predefined preset position.
- d. Zoom control
Zoom in and out by clicking on the – or + buttons.
- e. PTZ movement speed
Select the movement speed ratio.
- f. Focus control
Focus in and out by clicking on the – or + buttons.

5.2.3. E-Map Monitor

E-map is a graphical overview to indicate the locations of the cameras. This feature is particularly useful during the installation of a new security system as site locations where camera installation seems most appropriate can be easily identified. E-Map also provides a visual grasp of the vicinity to users who are unfamiliar or new to the area under surveillance. By viewing an E-map, security personnel can identify the surroundings and rush to a location immediately and secure an area.



Click on “View” and click on “E-Map Monitor”.

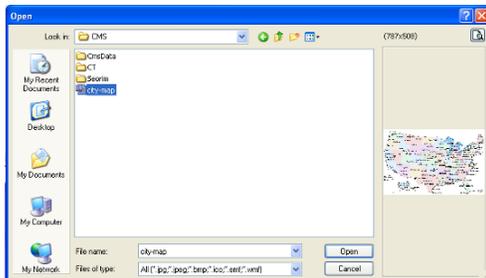


5.2.3.1 Add New Map



Click the “Add New Map” icon to load a map into the E-Map Monitor.

NOTE: Map should support JPEG or BMP format.



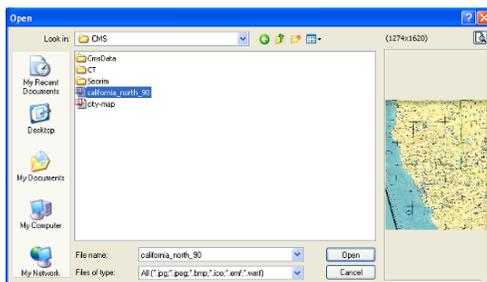
Select a map you want to load and click the “Open” button.



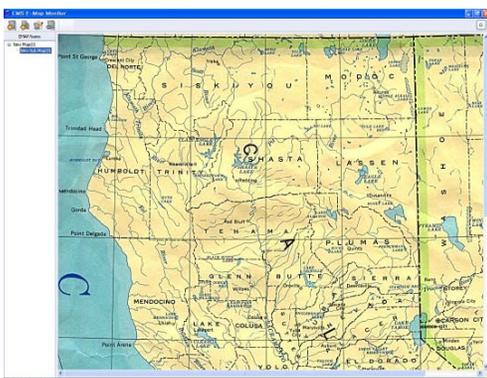
You can see the map loaded into the E-map window.

5.2.3.2 Add Sub Map Link

If you want to add a sub-map, click the “Add Sub Map Link” icon or click the right button of the mouse on a desired list of E-map list and click on “Add Sub Map Link”. The loaded sub-map is linked to the high map and if you double-click the link icon in the high map, you can open the linked sub-map directly.



Select a map you want to load and click the “Open” button.



You can see the map loaded into the E-map Monitor by sub-map.

And a blue map link icon will be created on left above of high map.

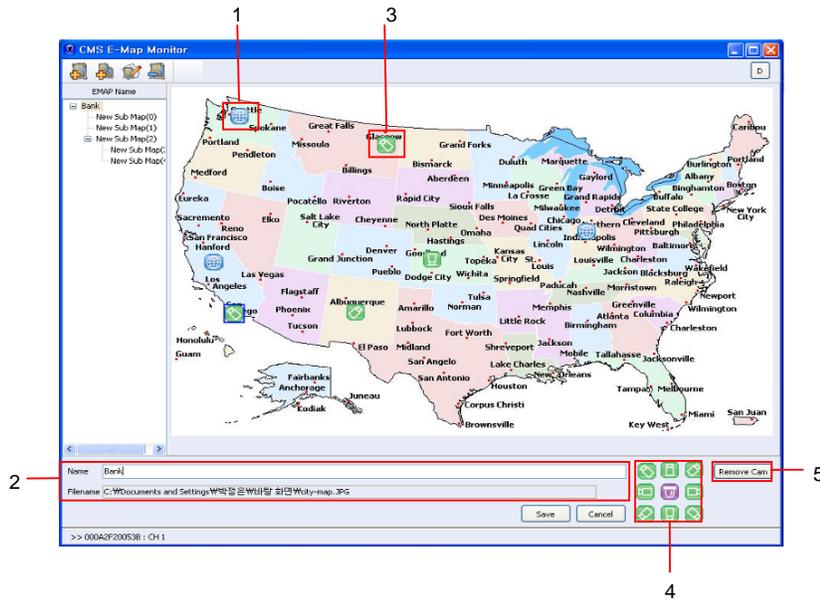
5.2.3.3 Edit Map

E-map editor provides the functions that enable user to set up the locations of cameras in the E-map to help the administrator to have the connection between camera and map. The map supports hierarchy structure and can let administrator easy to manage the remote cameras and DVRs. You can move the location of camera icon or map link icon or change the map name.

NOTE: Only the administrator is authorized to create and edit the e-map and users can only monitor.



Select an editing map in e-map list and click the “Edit Map” icon.



5.2.3.3.1 Map link icon

Move the map link icon to a desired position.

If you double-click a map link icon, the linked map will be displayed.

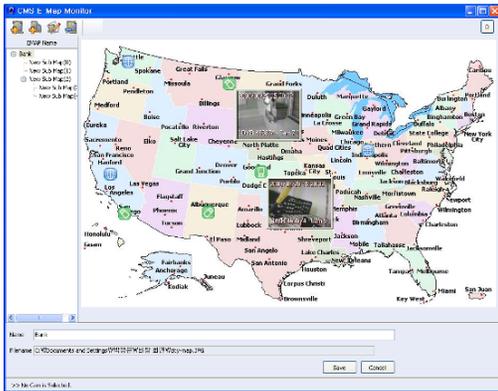
5.2.3.3.2 Name and File name

Input a desired name and a file name of selected map and click the “Save” button.

5.2.3.3.3 Camera icon

Drag and drop a desired camera from Group list or Device manager into E-map editing window.

And a camera icon will be created.



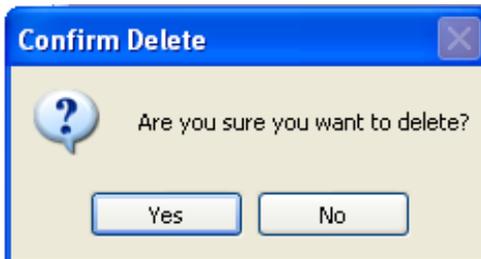
If you double-click the camera icon in the map, the preview window of each camera will be displayed in a map like the left picture.

Double-click again to close the preview window.

5.2.3.3.4 Display a camera direction

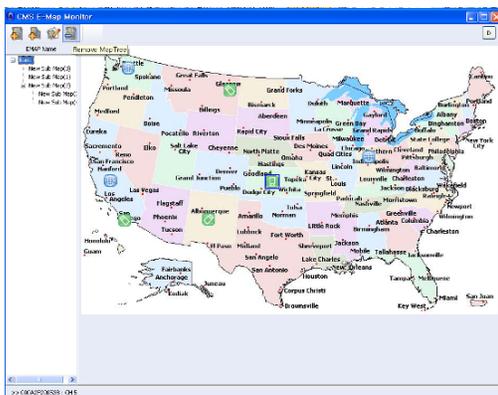
Click a desired camera icon in a map and click a desired camera direction icon.

5.2.3.3.5 Remove a camera

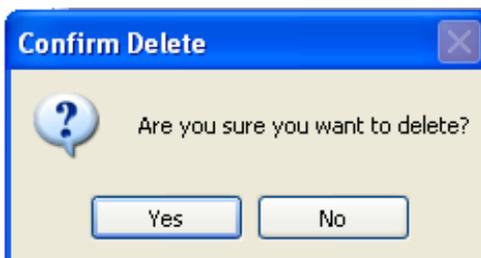


Click a desired camera icon in a map and click the "Remove Cam" button. And the selected camera icon will be removed. And you can see the left "Confirm Delete" window. If you want to delete, click the "Yes" button.

5.2.3.4 Remove Map Tree



Click the "Remove Map Tree" icon to delete the selected map and sub-maps.



If you want to delete the map tree, click the "Yes" button.

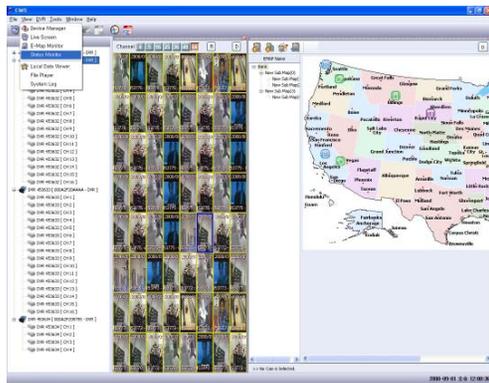
5.2.3.5 Dock the CMS E-Map Monitor

If you click the “D” button, the “CMS E-Map Monitor” window will be docked to CMS main window. If you click the “x” button of the “CMS E-Map Monitor” window, the “CMS E-Map Monitor” window will be undocked.

5.2.4. Status Monitor

The CMS can support Health Check function.

The CMS system automatically checks the DVR health status and save these health information in the database which can provide external application for usage. You can see the recording status per channel, HDD capacity and free space, last updated date and time and connection status etc. on “DVR Status Monitor” window.



Click on “View” and click on “Status Monitor”.

No.	Name	IP Address	MAC Address	CHNum	DVR Type	Record Status	Version	HDD Capacity	% FreeSpace	Last Updated	Status
1	DVR 453630	211.174.251.198	000A2F204359	16	N	-----	2.88F16_...	381554 MB	79.0%	2008/09/01 13:01:26	OK
2	DVR 453632	211.174.251.197	000A2F001063	16	P	N	2.88F16_...	152627 MB	95.9%	2008/09/01 12:57:52	OK
3	DVR 453633	211.174.251.174	000A2F20AAAA	16	N	NNNN	2.88D28_...	238475 MB	81.2%	2008/09/01 12:58:36	OK
4	DVR 453634	211.174.251.178	000A2F205755	4	N	-----	2.88D28_L	152627 MB	99.9%	2008/09/01 12:58:04	OK
5	DVR 453771	211.174.251.216	000A2F203CCC	16	N	NNNNNNNNNNNNNN...	2.88F8_EXB	78533 MB	0.1%	2008/09/01 12:59:02	OK
6	DVR 453772	211.174.251.222	000A2F205BAP	4	N	-----	2.88D22	152627 MB	0.1%	2008/09/01 12:59:26	OK
7	DVR 453773	211.174.251.219	000A2F200538	16	N	NNNNNNNNNNNNNN...	2.88F7	114498 MB	0.1%	2008/09/01 12:59:24	OK
8	DVR 453775	211.174.251.217	000A2F001068	16	N	-E-E-E-E-E-E-E-E	2.88E_TEST	19465 MB	0.1%	2008/09/01 12:58:58	OK
9	DVR 453776	211.174.251.221	000A2F20829E	8	N	NNNNNNNN	2.88D16_T	152627 MB	0.1%	2008/09/01 12:58:59	OK

5.2.4.1 DVR status indication

- Green: Normal working
- Red: Event working
- Gray: Not enable check of edit window
- ? : Abnormal working

5.2.4.2 No.

It's a order to be listed in CMS.

5.2.4.3 Name

It's a name of DVR to be registered.

If you want to change a name, highlight a desired DVR and input a changing name in 17. a blank next to Name and then click the 27. "Save" button.

5.2.4.4 IP address

It's IP address of DVR to be registered.

5.2.4.5 MAC address

It's MAC address of DVR to be registered.

5.2.4.6 Channel number

It shows a DVR's channel number. For example, if the connected DVR is 16 channel, it'll be displayed 16.

5.2.4.7 DVR Type

It shows what kind of model.

5.2.4.8 Record Status

It shows recording status.

- N: Normal recording
- E: Event recording
- S: Schedule recording
- -: Record off

5.2.4.9 Version

It shows firmware version of DVR.

5.2.4.10 HDD Capacity

It shows total HDD capacity to be installed in DVR including HDD expansion bays.

5.2.4.11 Free Space

It shows free space of HDDs to be installed in DVR including HDD expansion bay.

5.2.4.12 Last Updated

The CMS receives and updates information from DVRs every 1 minute and this shows the last updated time. So you can guess from when a DVR has a problem.

5.2.4.13 Status

It shows DVR's status.

- OK: DVR is connected normally.
- Connecting: It is trying to connect the DVR.
- Stopped: DVR is disconnected.
- Fail to Connect: It is failed to connect the DVR by wrong internet connection or wrong IP address.
- Fail to Get IP: It is failed to get the IP address using IP server.
- Invalid IP Address: The IP address is invalid.
- Denied from DVR: To be denied the login from DVR.
- ADMIN Already Connected: The administrator is already connected to the DVR.
- Wrong Password: The password is wrong.
- DVR ADMIN OK: It is normally connected to the DVR using administrator password.
- DVR USER OK: It is normally connected to the DVR using user password.
- Request Status: CMS is checking the DVR status.

5.2.4.14 Docking the window

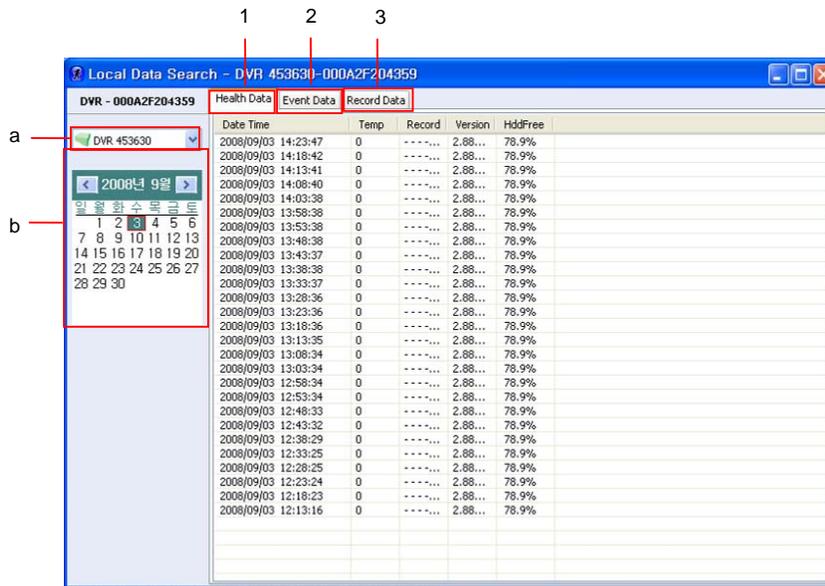
If you click the “D” button of the “DVR Status Monitor” window, the window will be docked to CMS main window. If you click the “x” button of the “DVR Status Monitor” window, the window will be undocked.

5.2.5. Local Data Viewer

Any DVRs that are connected online can be accessed to do data search remotely from the DVR and then transmit to the CMS for remote playback.



Click on “View” and then click on “Local Data Viewer” to open “Local Data Search” window.



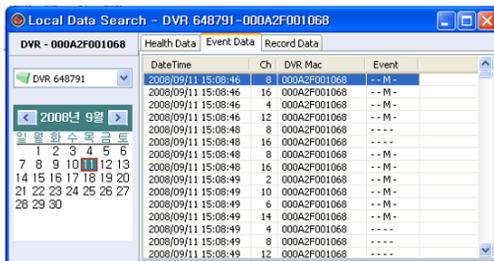
5.2.5.1 Health Data

The CMS automatically checks the DVR's health status every 5 minutes and the health information will be saved in the database. The default folder to be saved the data is C:\Program Files\DVR\CMS\CmsData\Administrator\MAC address of the DVR\Health.

- Click the "v" button and select a desired DVR.
- Select a desired date and you can see the data, time, temperature, record status, firmware version and HDD status like the above picture.

5.2.5.2 Event Data

When an event happened in a DVR, the information will be saved.



Click the "Event Data" tab and select a desired DVR and date and you can see the event information like the left picture.

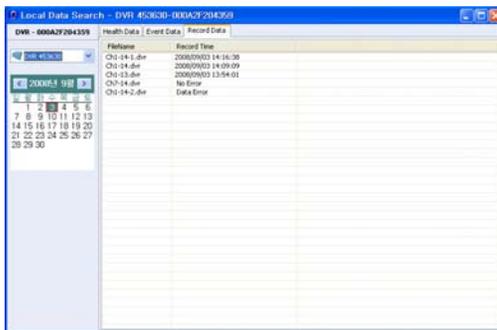


If you double-click a desired list in “Event Data” list, the playback window will be displayed.

NOTE: Refer to the 5.2.6 File Player for more information of playback window.

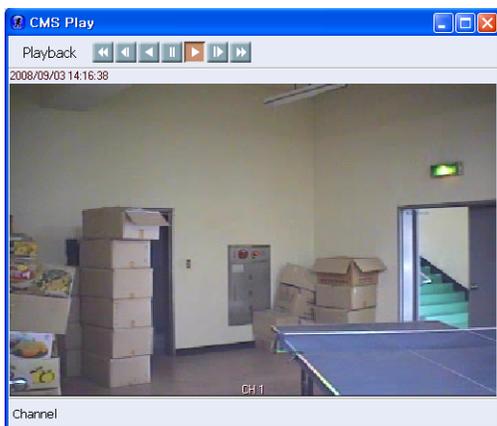
5.2.5.3 Record Data

You can save the live files of each camera in your PC and you can search and play in Record Data.



Click the “Record Data” tab and select a desired DVR and date and you can see the record data list.

The file name means channel and recording time. For example, Ch1(channel number)–20(recording time).dvr.



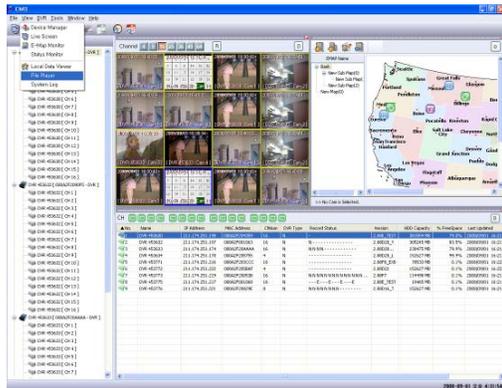
NOTE: Refer to the 5.10 Record Start/Stop icon for more information.

If you double-click a desired list in “Record Data” window, the saved live image will be played.

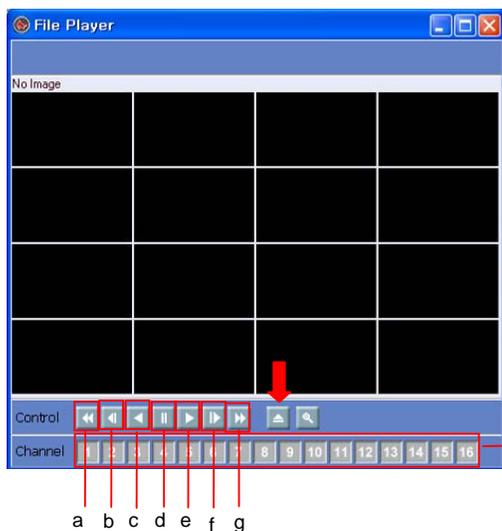
NOTE: Refer to the 5.2.6 File Player for more information of playback window.

5.2.6. File Player

You can display the “Playback” window not through the data search.



Click on “View” and then click on “File Player” to open the playback window.



And you can see the File Player like the left picture.

If you click the “” button to be indicated by the red arrow, you can select a desired file(.dvr) to play.

The remote playback can be controlled just as on the DVR. The remote playback can be played in normal, slow, and fast modes in both forward and reverse direction.

a. Rewind

This button can be toggled for rewind speed of 2x, 4x, 8x, 16x, 32x, 64x and 128x.

b. Reverse slow

This button can be toggled for a slow reverse playback speed of 1/2x, 1/4x, 1/8x, 1/16x, 1/32x, 1/64x and 1/128x.

c. Reverse play

Normal speed playback in reverse direction.

d. Pause

Pause the playback during remote playback or live monitoring.

e. Play

Normal speed playback in forward direction.

f. Forward slow

This button can be toggled for a slow forward playback speed of 1/2x, 1/4x, 1/8x, 1/16x, 1/32x, 1/64x and 1/128x.

g. Fast forward

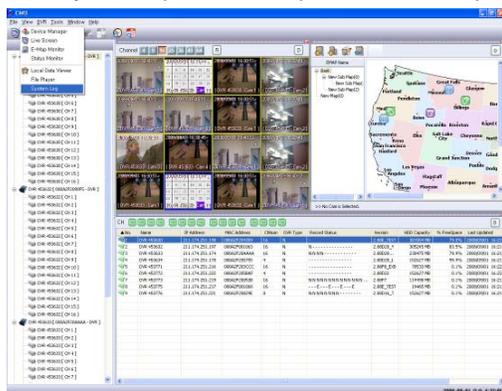
This button can be toggled for fast forward speed of 2x, 4x, 8x, 16x, 32x, 64x and 128x.

h. Channel select

Click a desired channel button or double-click on desired channel screen, the selected channel will be displayed by full screen. If you want to return the previous split screen, click the channel button or double-click on the screen again.

5.2.7. System Log

System log gives the complete information about users' login details. Each entry will bear the identity of the person who performed the operation.



Click on "View" and then click on "System Log" to open the "Log Info." window.



Input the Administrator's password and then click the "OK" button.

No.	User	Status	Date	Detail
1	Administrator	Log-In	2008-08-11 11:46:47	
2	Administrator	DVR Disconnected	2008-08-11 11:47:19	MAC000A2F200000
3	Administrator	DVR Disconnected	2008-08-11 11:47:20	MAC000A2F203CCC
4	Administrator	DVR Disconnected	2008-08-11 11:47:20	MAC000A2F001122
5	Administrator	DVR Disconnected	2008-08-11 11:47:20	MAC000A2F001060
6	Administrator	DVR Disconnected	2008-08-11 11:47:20	MAC000A2F001060
7	Administrator	DVR Disconnected	2008-08-11 11:47:20	MAC000A2F203CCC
8	Administrator	DVR Disconnected	2008-08-11 11:47:20	MAC000A2F200000
9	Administrator	DVR Disconnected	2008-08-11 11:47:20	MAC000A2F20829E
10	Administrator	Log-Out	2008-08-11 11:47:41	
11	Administrator	Log-In	2008-08-11 11:48:49	
12	Administrator	DVR Disconnected	2008-08-11 11:48:58	MAC000A2F203CCC
13	Administrator	DVR Disconnected	2008-08-11 11:48:58	MAC000A2F200538
14	Administrator	DVR Disconnected	2008-08-11 11:48:58	MAC000A2F20170A
15	Administrator	DVR Disconnected	2008-08-11 11:48:58	MAC000A2F001060
16	Administrator	DVR Disconnected	2008-08-11 11:48:58	MAC000A2F20829E
17	Administrator	Log-Out	2008-08-11 11:49:42	
18	Administrator	Log-In	2008-08-13 09:45:19	
19	Administrator	DVR Disconnected	2008-08-13 09:45:28	MAC000A2F001060
20	Administrator	DVR Disconnected	2008-08-13 09:45:28	MAC000A2F200538
21	Administrator	DVR Disconnected	2008-08-13 09:45:28	MAC000A2F001060
22	Administrator	DVR Disconnected	2008-08-13 09:45:28	MAC000A2F20170A
23	Administrator	DVR Disconnected	2008-08-13 09:45:28	MAC000A2F20829E
24	Administrator	DVR Disconnected	2008-08-13 09:45:29	MAC000A2F200000
25	Administrator	DVR Disconnected	2008-08-13 09:45:29	MAC000A2F204359
26	Administrator	DVR Disconnected	2008-08-13 09:45:29	MAC000A2F203CCC
27	Administrator	DVR Disconnected	2008-08-13 09:45:29	MAC000A2F001122
28	Administrator	Log-Out	2008-08-13 09:51:55	
29	Administrator	Log-In	2008-08-13 09:52:05	
30	Administrator	DVR Disconnected	2008-08-13 09:52:17	MAC000A2F200000
31	Administrator	Log-Out	2008-08-13 10:15:15	
32	Administrator	Log-In	2008-08-13 10:23:33	
33	Administrator	DVR Disconnected	2008-08-13 10:23:43	MAC000A2F20829E
34	Administrator	Log-Out	2008-08-13 11:05:03	
35	Administrator	Log-In	2008-08-13 11:12:35	
36	Administrator	DVR Disconnected	2008-08-13 11:12:47	MAC000A2F20829E
37	Administrator	DVR Disconnected	2008-08-13 11:12:47	MAC000A2F001122
38	Administrator	DVR Disconnected	2008-08-13 11:12:47	MAC000A2F001060

Log information window will be displayed like the left picture.

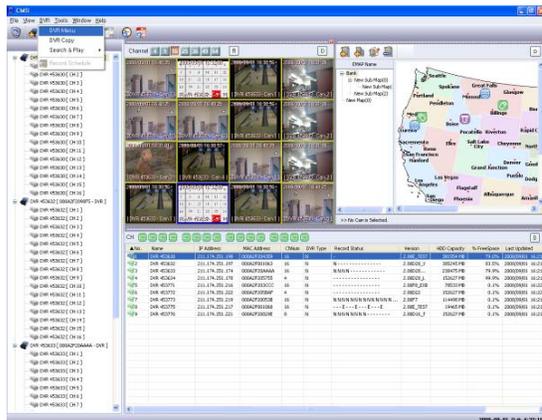
You can see who and when has logged in or logged out the CMS and what DVR has been connected.

5.3. DVR

5.3.1. DVR Menu

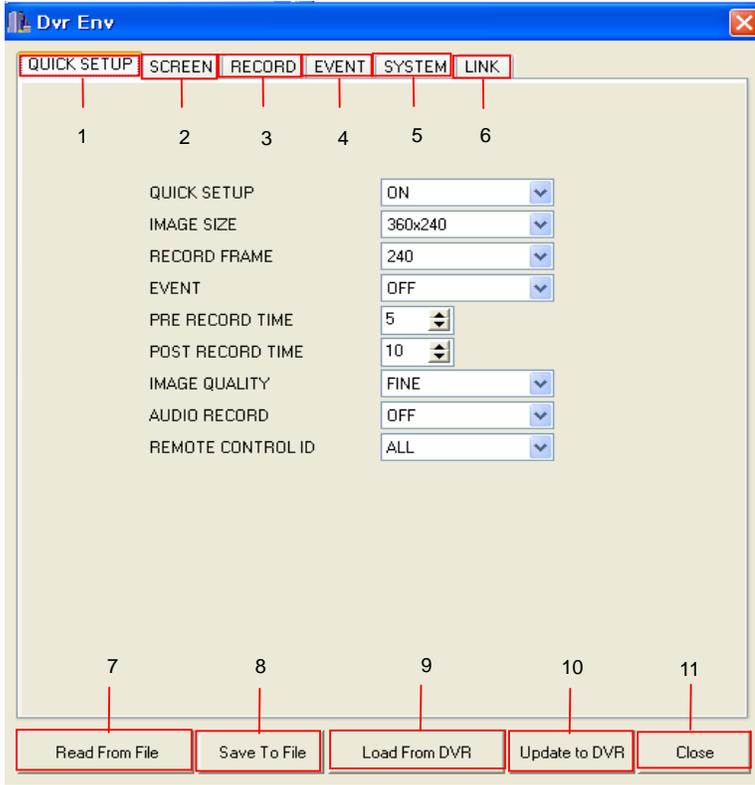
The CMS can change the menu settings on the DVR remotely. The features and settings are identical to that of the DVR menu. DVR menu can be different per model. The DVR menu display can be delayed according to PC specifications.

Please refer to User's manual for more information.



Click on "DVR" and then click on "DVR Menu" to enter the DVR menu setup.

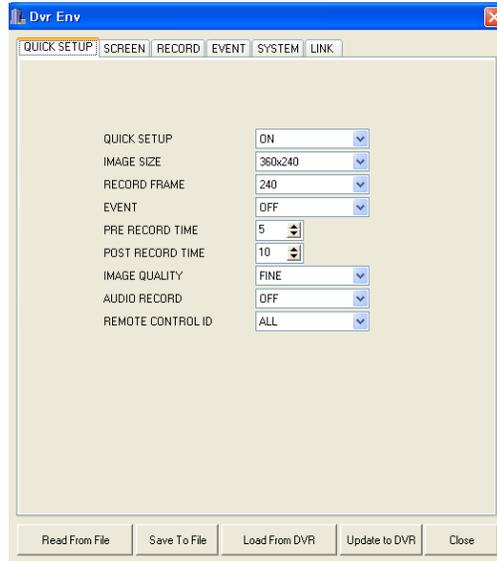
NOTE: Only administrator can enter the DVR menu.



1. QUICK SETUP: Refer to the chapter 2.3.1.1.1.
2. SCREEN SETUP: Refer to the chapter 2.3.1.1.2.
3. RECORD SETUP: Refer to the chapter 2.3.1.1.3.
4. EVENT SETUP: Refer to the chapter 2.3.1.1.4.
5. SYSTEM SETUP: Refer to the chapter 2.3.1.1.5.
6. LINK: Refer to the chapter 2.3.1.1.6.
7. READ FROM FILE: Load DVR settings from a DVR setup file.
8. SAVE TO FILE: Save DVR settings to a DVR setup file.
9. LOAD FROM DVR: Load current DVR settings.
10. UPDATE TO DVR: Upload changed settings to DVR.
11. CLOSE: Close DVR Setup menu.

5.3.1.1 Quick Setup

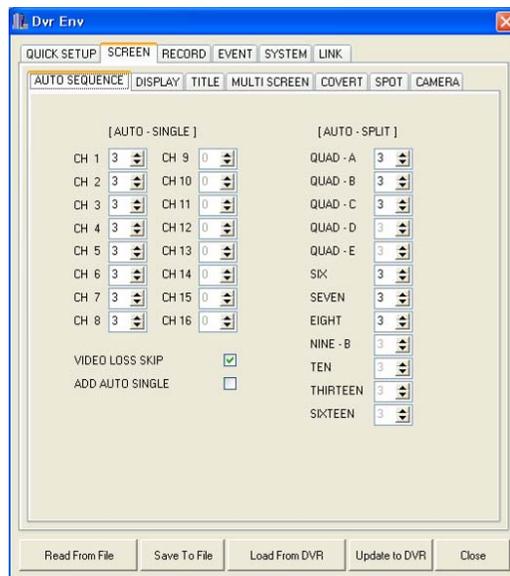
Select a desired value of each item.



- Quick Setup: on / off
- Image Size: 360 x 240 / 720 x 240 / 720 x 480
- Record Frame: depending on image size
- Event: off, all, alarm, v-loss, motion, alarm & loss, alarm & motion, loss & motion
- Pre Record Time: 0 through 5 seconds.
- Post Record Time: 0 through 60 seconds
- Image Quality: 3 or 4 levels
- Audio Record: on / off
- Remote Control ID: all, 11 ~ 14, 21 ~ 24, 31 ~ 34 and 41 ~ 44.

5.3.1.2 Screen

5.3.1.2.1 Auto Sequence



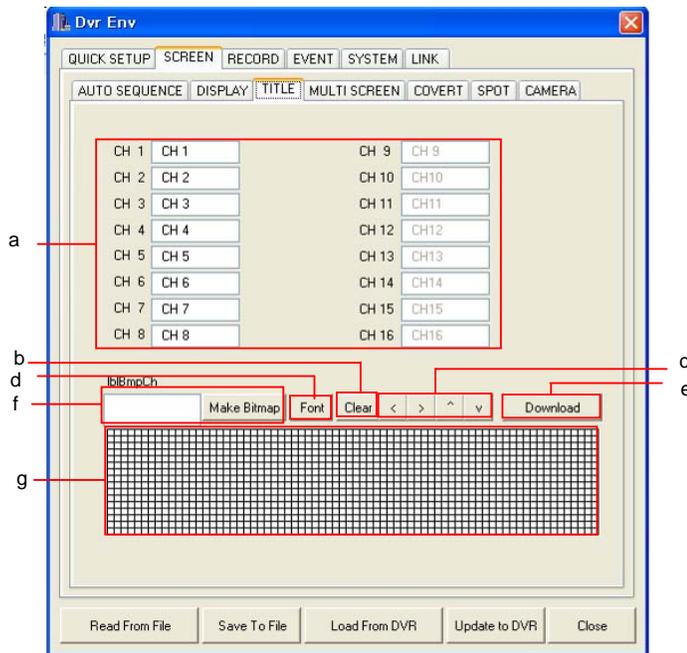
- Auto-Single: select the single channel dwell time.
- Auto-Split: select the multi channel dwell time.
- Video Loss Skip: check / uncheck.
- Add Auto Single: check / uncheck.

5.3.1.2.2 Display



- a. HDD Free Space: on / off.
- b. HDD Free Space Mode: percent / gigabyte.
- c. Record Status: on / off.
- d. Clock Display: on / off.
- e. Date & Time Mode: YY/MM/DD, MM/DD/YY, DD/MM/YY.
- f. Title Display: on / off.
- g. Title Mode: text / bitmap.
- h. Border Color: white / black.
- i. Remote Control ID: on / off.
- j. Spot Title Display: on / off.

5.3.1.2.3 Title



- a. Channel Title (text mode)
Enter up to eight alphanumeric characters for channel titles.
- b. Clear
Clear the bitmap drawing.
- c. Move
Move the bitmap drawing in the grids.

d. Font

Select the font for bitmap conversion.

e. Download

Download the bitmap to the DVR.

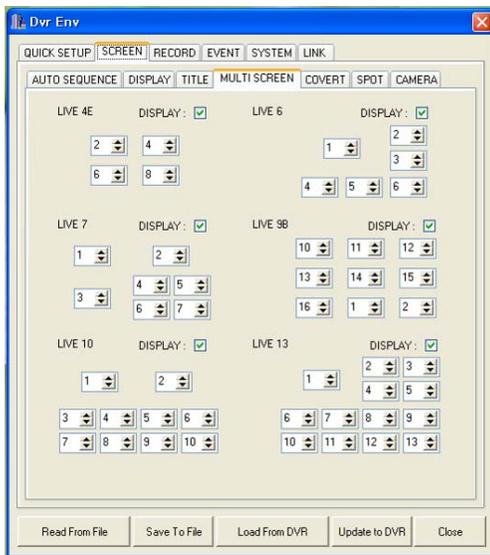
f. Make Bitmap

Enter the title to be converted into bitmap.

g. Bitmap Grid

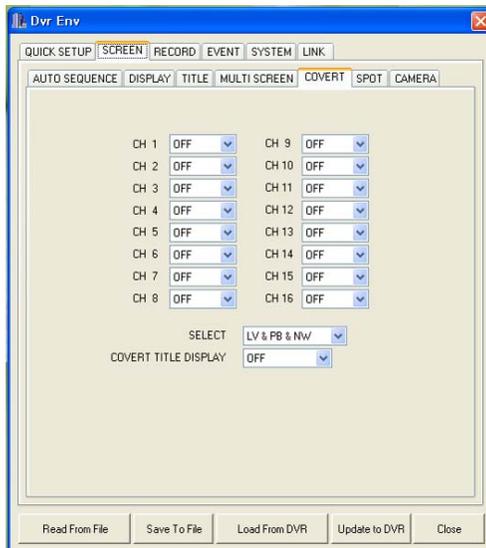
The title can be drawn here.

5.3.1.2.4 Multi-screen



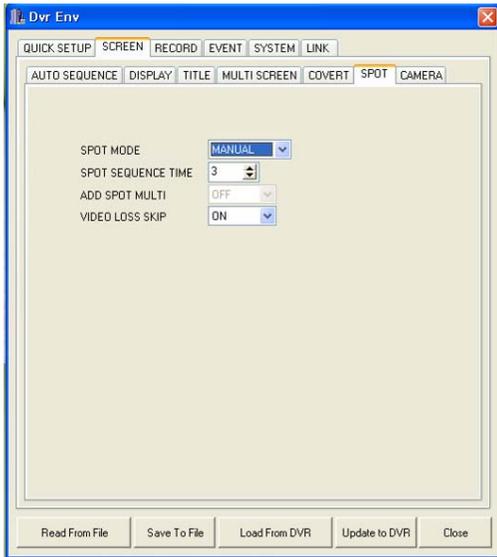
Customize the channels to be displayed in 4E, 6, 7, 9B, 10 and 13 channel view modes.

5.3.1.2.5 Covert



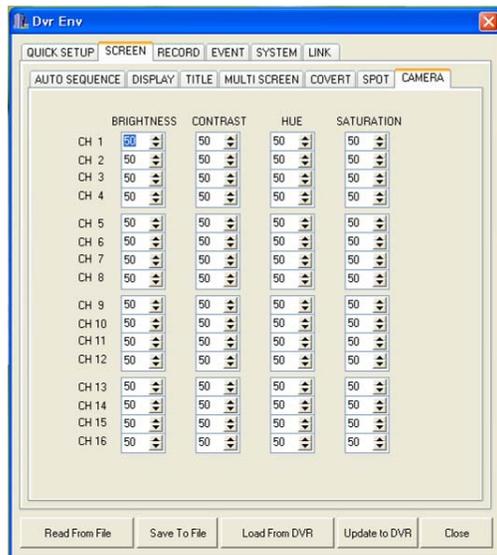
- a. Channels 1 through 16: on / off
- b. Select: live, play, network, LV & PB, LV & NW, PB & NW, LV & PB & NW
- c. Title Display: on / off

5.3.1.2.6 Spot



- a. Spot Mode: manual, event, sequence
- b. Spot Sequence Time: 1 to 60 seconds
- c. Add Spot Multi: Only some models can support this function
- d. Video Loss Skip: on / off

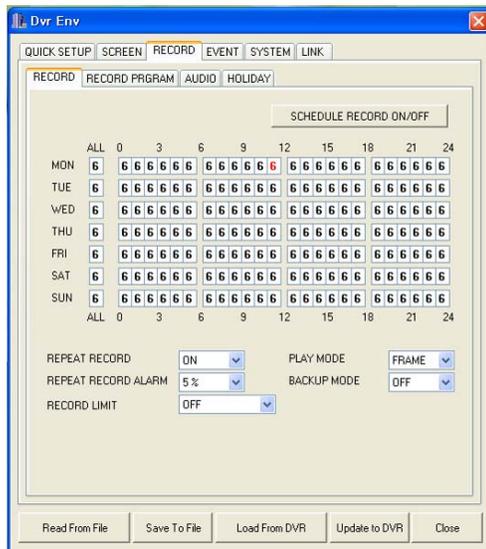
5.3.1.2.7 Camera



Adjust the brightness, the contrast, the hue and the saturation on each channel.

5.3.1.3 Record

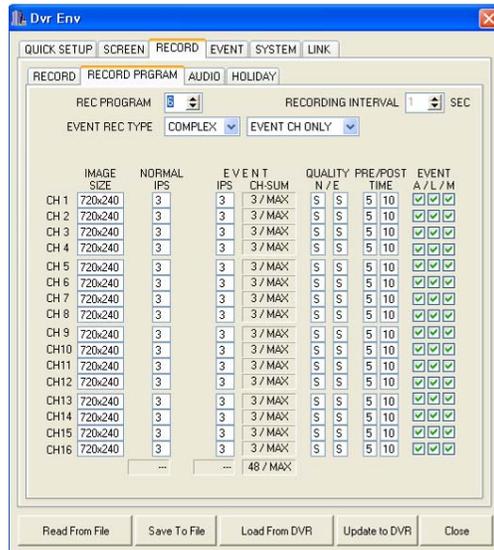
5.3.1.3.1 Record



- Schedule Record: click on an hour block and then click Schedule Record on / off
- Monday through Sunday: select the record program
- Repeat Record: on / off
- Repeat Record Alarm: 5% through 10%, off
- Play Mode: frame, field
 - FRAME: for higher frame rate
 - FIELD: for lower frame rate
- Backup Mode: mirror, event, off.
- Record Limit: off / 1 day through 6 days / 1 week through 4 weeks / 1 month through 11 months / 1 year

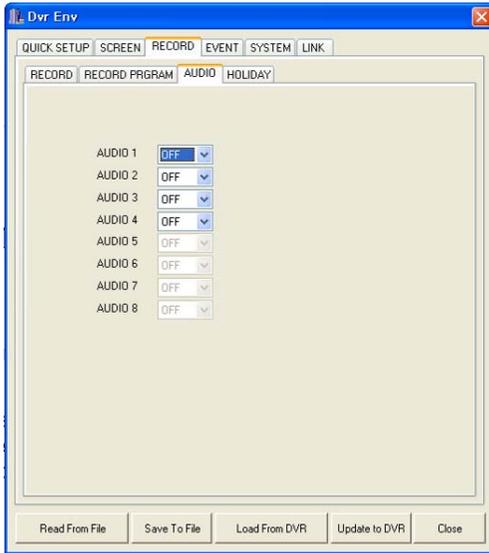
5.3.1.3.2 Record program

Define the values for the record settings. Use the mouse scroll button to change the values, or the left/right buttons on the keyboard.



- Record Program: 0 to 9
- Event Record Type: single / complex, event channel only / all channels
- Image Size: select the recording image size
- Normal Record: select the recording rate for manual recording
- Event Record: select the recording rate for event recording
- Quality Normal: select the image quality for manual recording
- Quality Event: select the image quality for event recording
- Pre Record Time: select the pre-event recording time
- Post Record Time: select the post-event recording time
- Event Alarm / Video Loss / Motion: check / uncheck event recording options.

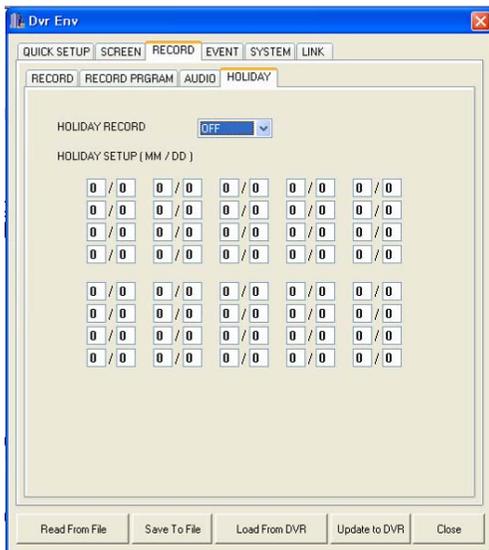
5.3.1.3.3 Audio



Select on or off for each channel to enable or disable the audio recording.

The audio channel is different per model.

5.3.1.3.4 Holiday

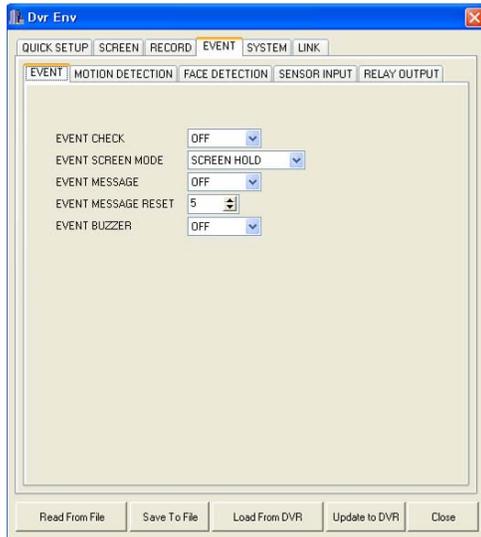


- a. Holiday Record: on / off
- b. Holiday Setup: enter the holidays

Note: Holidays to be set are recorded same as Sunday setting.

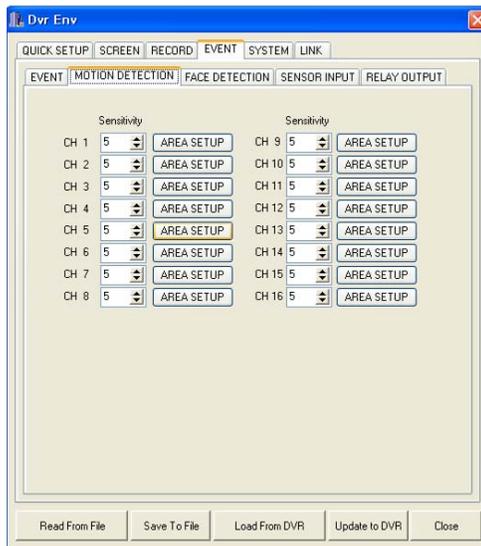
5.3.1.4 Event

5.3.1.4.1 Event

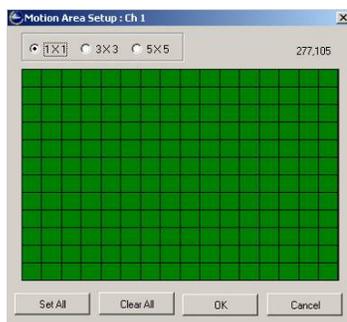


- Event Check: on / off.
- Event Screen Mode: screen hold, event full, event multi, event full return, event multi return.
- Event Message: on / off.
- Event Message Reset: 1 to 30 seconds.
- Event Buzzer: on / off.

5.3.1.4.2 Motion detection



- Sensitivity: select the motion detection sensitivity.
- Area Setup: click on AREA SETUP to display the motion grid window.

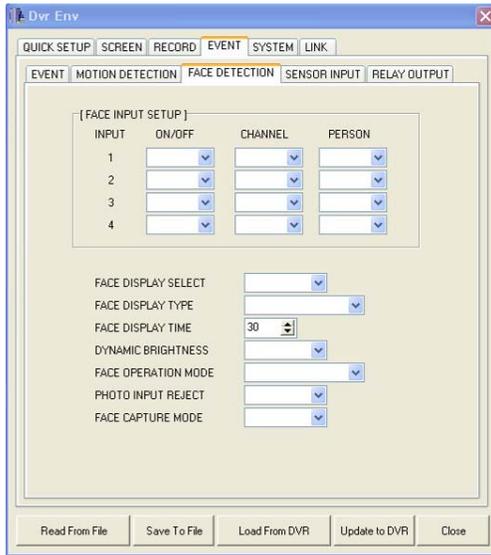


Select the grid size.

Use the left mouse button to draw motion detection area and use the right mouse button to erase motion detection area.

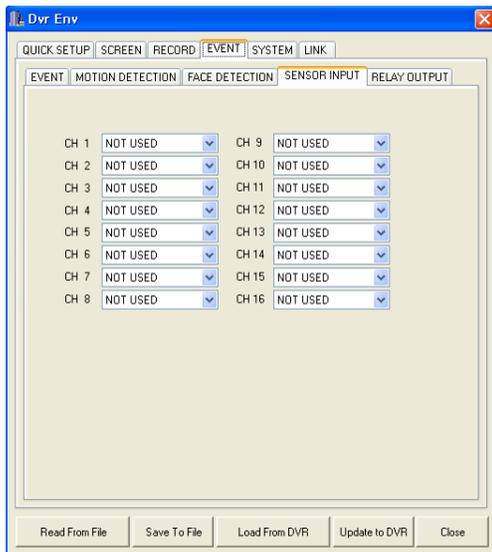
Use the buttons at the bottom of the screen to set or clear motion detection all area of the screen.

5.3.1.4.3 Face detection



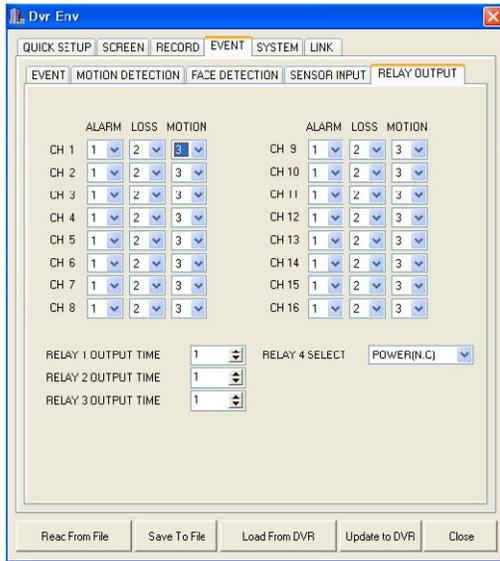
This menu is only for FDR(Facial detection and recognition DVR).

5.3.1.4.4 Sensor input



Select the circuit type for the sensor input.

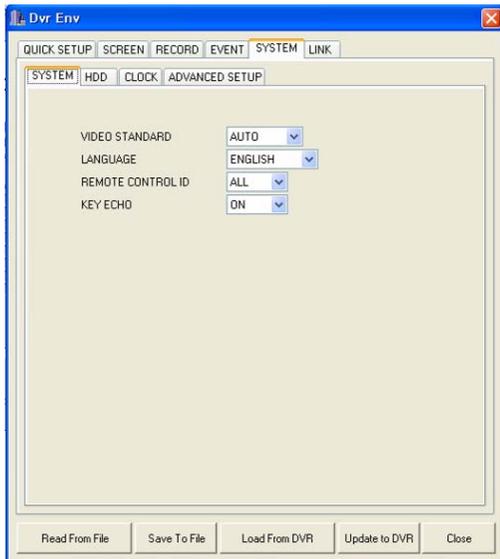
5.3.1.4.5 Relay output



- a. Channel 1 through 16: select the relay output for the events.
- b. Relay 1 through 3 output time: 1 to 30 seconds.
- c. Relay 4 mode select: not used, HDD error, power(n,c), user, rec.

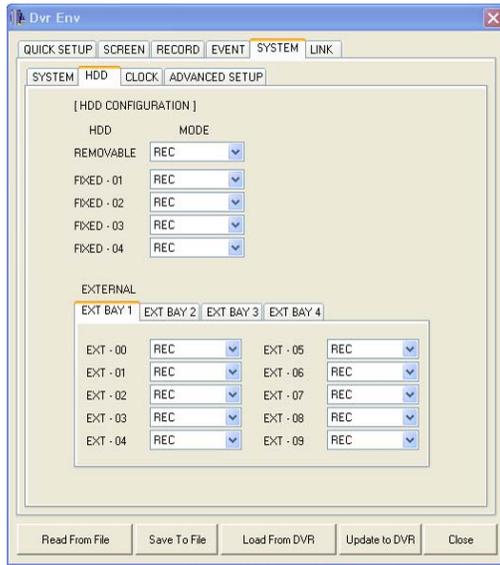
5.3.1.5 System

5.3.1.5.1 System



- a. Video Standard: PAL, NTSC, auto.
- b. Language: English, Korean, Japanese, Polish, Spanish, Russian, Chinese, Taiwanese, French, Turkish, German, Italian and Portuguese.
- c. Remote Control ID: All, 11 through 14, 21 through 24, 31 through 34 and 41 through 44.
- d. Key Echo: on / off.

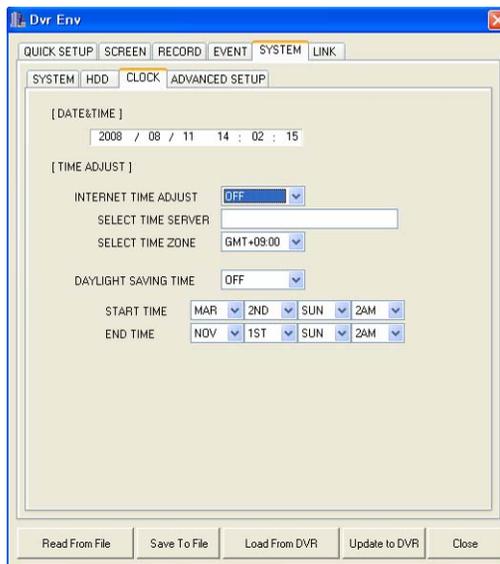
5.3.1.5.2 HDD



Select the recording mode for the HDD.

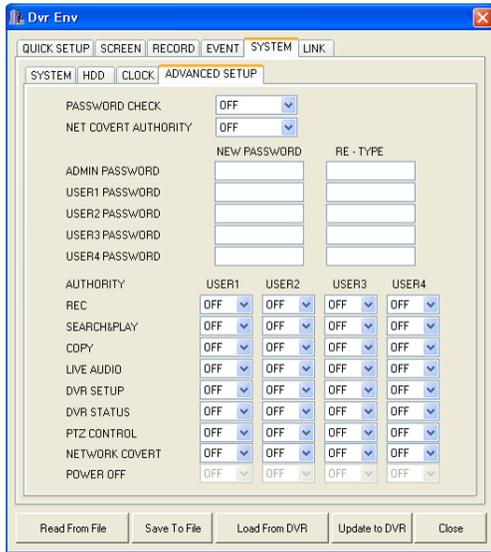
- REC: for normal recording
- BACKUP: for event backup or mirroring backup

5.3.1.5.3 Clock



- a. Date & Time: the date and time is displayed here cannot be modified.
- b. Internet Time Server: on / off.
- c. Select Time Server: enter the time server's IP address.
- d. Select Time Zone: select the DVR's local time zone.
- e. Day Light Savings Time: on / off.
- f. Start Time: select the month, week, day and time.
- g. End Time: select the month, week, day and time.

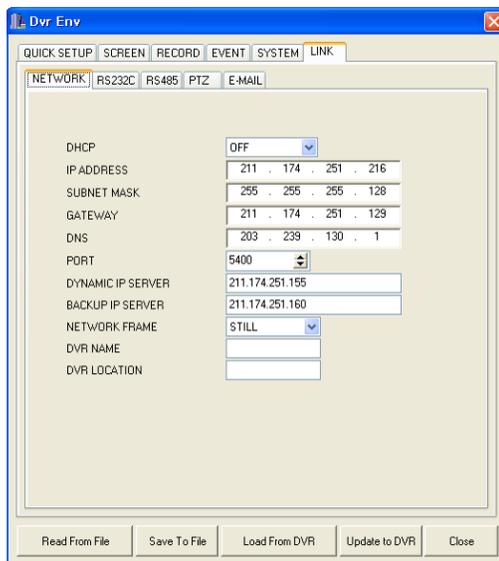
5.3.1.5.4 Advanced setup



- a. Password Check: on / off
- b. Passwords: define the DVR access passwords for all users.
- c. Authority: define DVR access authority for users 1 through 4.

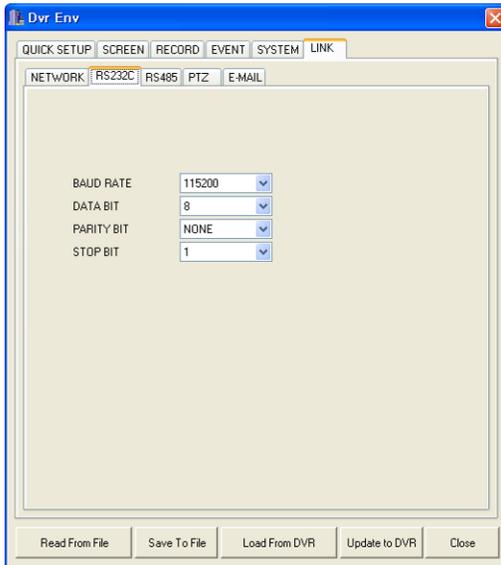
5.3.1.6 Link

5.3.1.6.1 Network



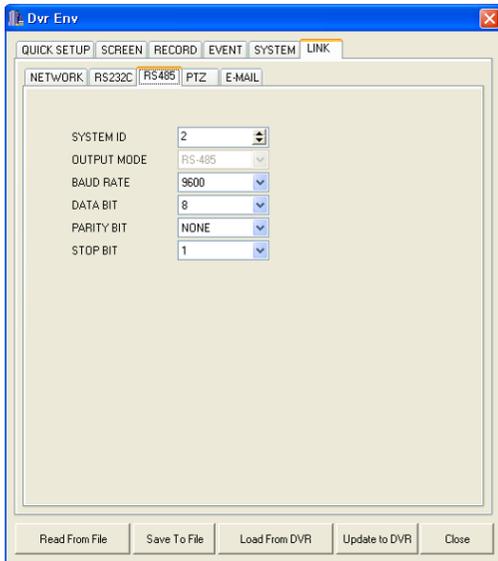
- a. DHCP: on / off.
- b. IP Address: enter the IP address.
- c. Subnet Mask: enter the subnet mask.
- d. Gateway: enter the gateway.
- e. DNS: enter the DNS address.
- f. Port: define port number.
- g. Dynamic IP Server: enter the Dynamic IP Server address.
- h. Backup IP Server: enter backup IP Server address.
- i. DVR NAME: enter the DVR name for CMS.
- j. DVR LOCATION: enter the DVR location for CMS.

5.3.1.6.2 RS-232C



- a. Baud Rate: select the communication speed
- b. Data Bit: select the data bit.
- c. Parity Bit: select the parity bit.
- d. Stop Bit: select the stop bit.

5.3.1.6.3 RS-485



- a. System ID: select the system ID.
- b. Output Mode: select the output mode.
- c. Baud Rate: select the communication speed.
- d. Data Bit: select the data bit.
- e. Parity Bit: select the parity bit.
- f. Stop Bit: select the stop bit.

5.3.1.6.4 PTZ

CH	MODEL	SPEED	ID
CH 1	NONE	9600	1
CH 2	NONE	9600	1
CH 3	NONE	9600	1
CH 4	NONE	9600	1
CH 5	NONE	9600	1
CH 6	NONE	9600	1
CH 7	NONE	9600	1
CH 8	NONE	9600	1
CH 9	NONE	9600	1
CH 10	NONE	9600	1
CH 11	NONE	9600	1
CH 12	NONE	9600	1
CH 13	NONE	9600	1
CH 14	NONE	9600	1
CH 15	NONE	9600	1
CH 16	NONE	9600	1

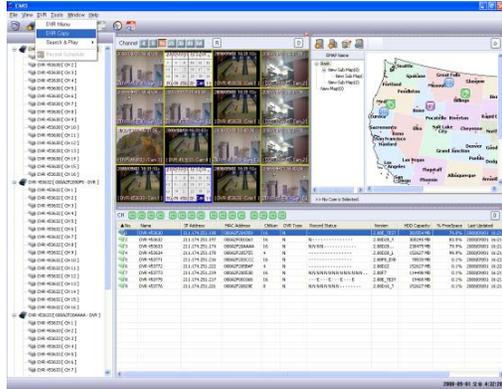
- Model: select the PTZ camera model.
- Speed: select the communication speed.
- ID: select the PTZ camera address.

5.3.1.6.5 E-mail

- Send e-mail: on / off.
- SMTP Server: enter the SMTP server address.
- DVR e-mail Address: enter the DVR's e-mail address.
- User ID: enter the DVR's user name for the e-mail account.
- Password: enter the DVR's password for the e-mail account.
- E-mail addresses 1 through 10: enter the e-mail addresses for e-mail notification.

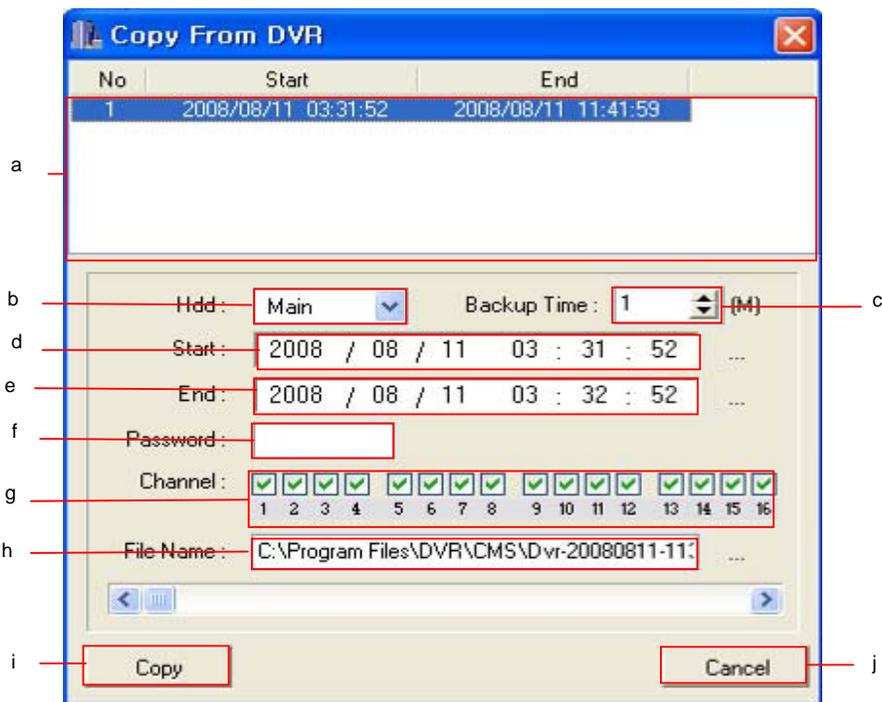
5.3.2. DVR Copy

The data on the DVR can be downloaded onto the PC using the COPY function. The data can also be backed up directly onto available backup media on the DVR.



Click on “DVR” and then click on “DVR Copy” to enter the DVR copy menu.

NOTE: Only administrator can enter the DVR copy menu.



a. Available data
Displays available data to be downloaded.

b. Hard disk drive selection
Select the hard disk drive to download from. If unknown, leave the selection on NORMAL.

c. Copy time

Define the interval of the file to be downloaded. Available time interval is 1 through 60 minutes. As the value is adjusted, the COPY END value will be automatically adjusted.

d. Copy start

Enter the starting time of the data to be downloaded.

e. Copy end

Enter the end time of the data to be downloaded.

f. Password

Encrypt the downloaded copy with a password. Up to 8 numbers can be entered for the password.

g. Channel

Select the channels to be downloaded.

h. File name

Input a desired name of the file to be copied.

i. Copy

Click on copy after all parameters for downloading.

j. Cancel

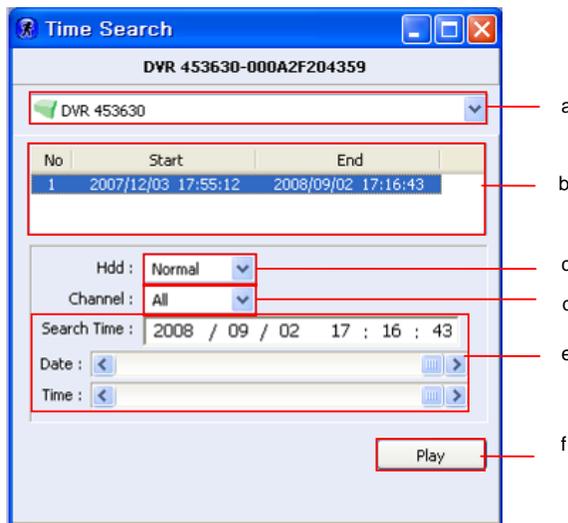
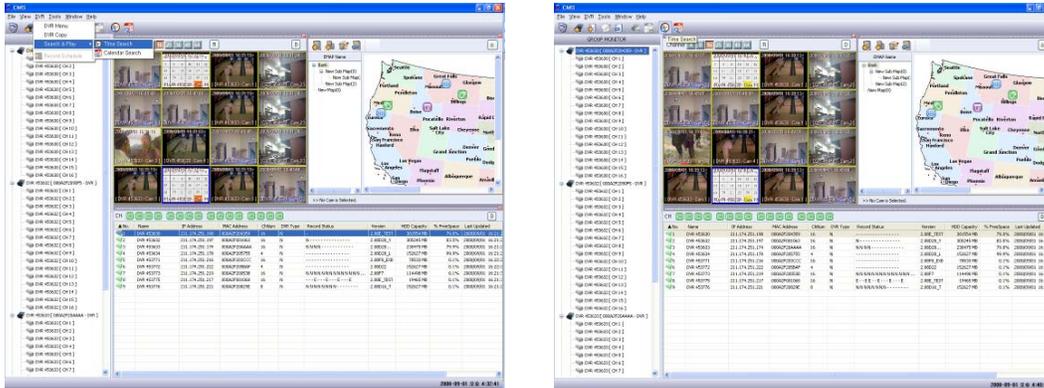
Exit from the COPY window.

5.3.3. Search & Play

5.3.3.1. Time Search

Time search provides an overview of the recorded data from the earliest available recording to the latest available recording.

Click on "DVR" and highlight "Search & Play" and then click on "Time Search" or click the "Time Search" icon.



And the “Time Search” window will be displayed like the above picture.

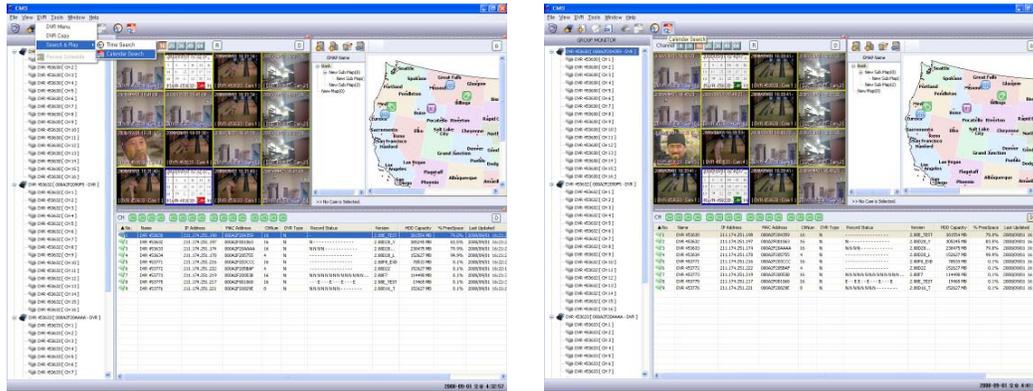
- a. Click the “v” button and select a desired DVR.
- b. The start and the end of the recorded data will be displayed.
- c. Select the hard disk drive for the remote playback. If unknown, leave the selection to Normal.
- d. Select the channel for playback.
- e. Select the year, month, day and time for the playback, or slide the date bar and the time bar to the desired date and time. The Search time format is yyyy/mm/dd, hr:min:sec.
- f. Click on “Play” to begin the remote playback. And the “Playback” window like the below picture will be displayed.

NOTE: Refer to Chapter 5.2.6 File Player for more information of playback window.

5.3.3.2. Calendar Search

Calendar search provides a quick overview of the year, month, day and hours of the day so that the data can be accessed relatively quickly.

Click on “DVR” and highlight “Search & Play” and then click on “Calendar Search” or click the “Calendar Search” icon.



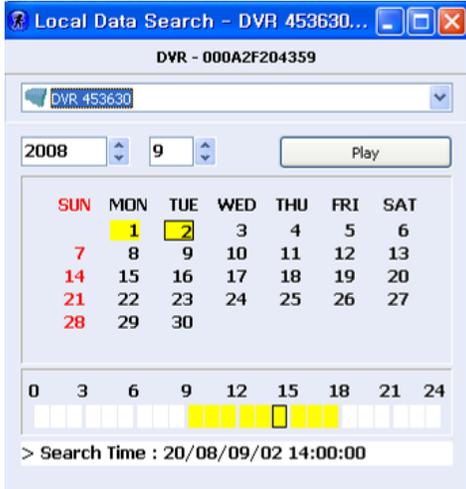
And the “Calendar Search” window will be displayed like the left picture.

- Click the “v” button and select a desired DVR.
- Select the year and month and then click the date.

NOTE: Dates with recorded data will be highlighted in yellow.



And you can see “Searching”.



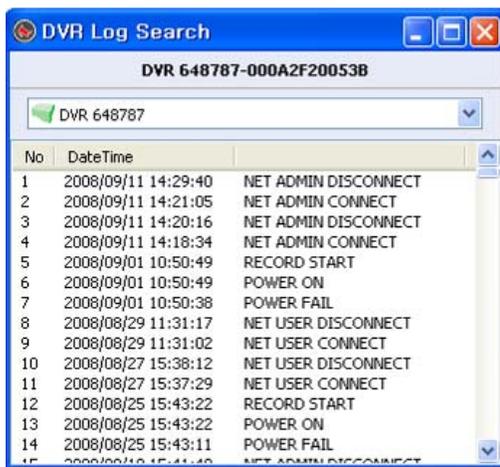
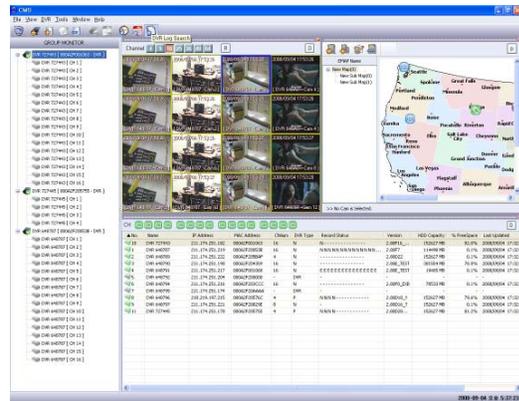
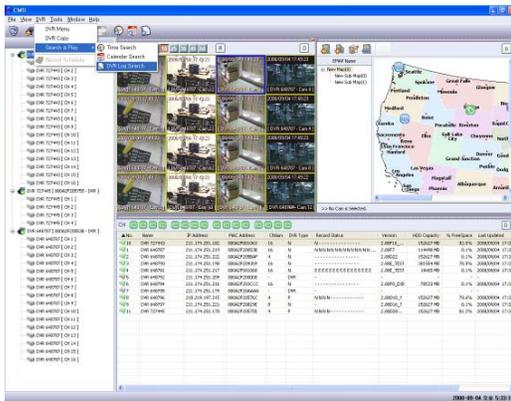
Select the hour block and then click on “Play” to begin the remote playback.

NOTE: Hours with recorded data will be highlighted in yellow.

NOTE: Refer to Chapter 5.2.6 File Player for more information of playback window.

5.3.3.3. DVR Log Search

Click the “Log Search” tab to display the Log Search window. The log file keeps a list of the important events that happened to the DVR. And you can search and play log file with the CMS. Click on “DVR” and highlight “Search & Play” and then click on “DVR Log Search” or click the “DVR Log Search” icon.



Select a desired DVR and you can see the log file list of DVR.

If you double-click the log file, the playback window will be displayed.

NOTE: Refer to Chapter 5.2.6 File Player for more information of playback window.

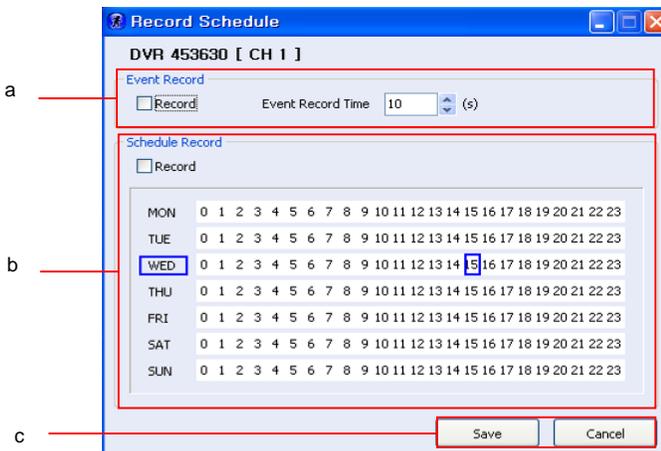
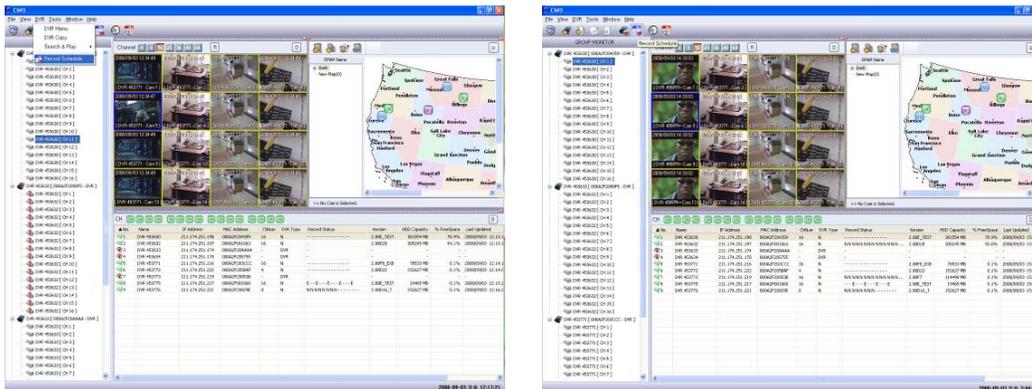
The following items are what the DVR keeps in its log file.

- Power on / off
- Power loss / DVR restart
- Changes in the menu
- DVR initialization
- HDD initialization
- Network connection / disconnection

5.3.4. Record Schedule

You can record the live image by event and by schedule.

Click a desired camera in “GROUP MONITOR”. And click on “DVR” and then click on “Record Schedule” or click the “Record Schedule” icon.



And you can see the “Record Schedule” setup window like the above picture.

- If you check the “Record” of “Event Record” and select a recording period in “Event Record Time”, the CMS will save the live image in your PC during the set time when an event happened.

- b. If you check the “Record” of “Schedule Record” and click desired times per day of the week, the live image of the selected time will be saved in your PC according to the set schedule. The selected time will be highlighted in red.
- c. And then click the “Save” button to save the setting. If you want to cancel, click the “Cancel” button.

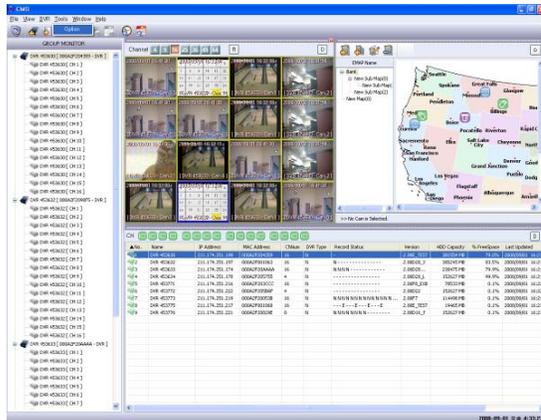
The default folder to be saved files, C:\Program Files\DVR\CMS\CmsData\Administrator\MAC address of the DVR\Record.

NOTE: Refer to Chapter 5.10 Record Start/Stop icon for more information.

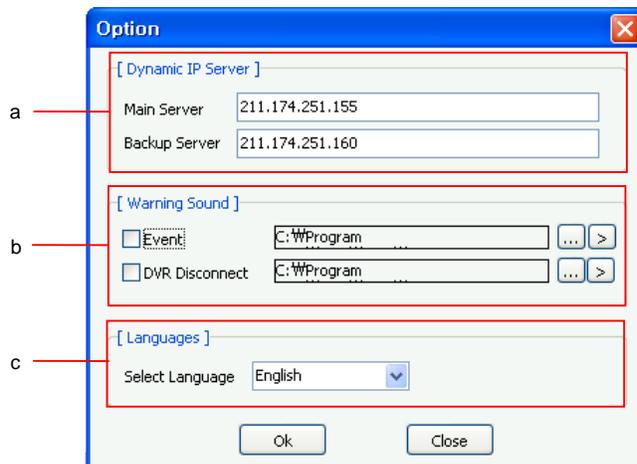
5.4. Tools

5.4.1. Option

DVR option defines the administrative options for the CMS, such as the IP address of the Dynamic IP Server, the Warning sound and the layout Language of CMS.



Click on “Tools” and then click on “Option” to open the “Option” window.



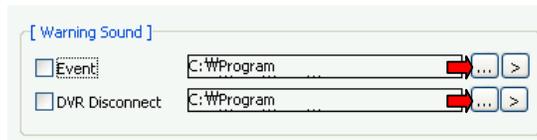
a. Dynamic IP Server

Modify the IP address for the Dynamic IP Servers as needed. The default IP addresses are:

- Primary Server: 211.174.251.155
- Secondary Server: 211.174.251.160

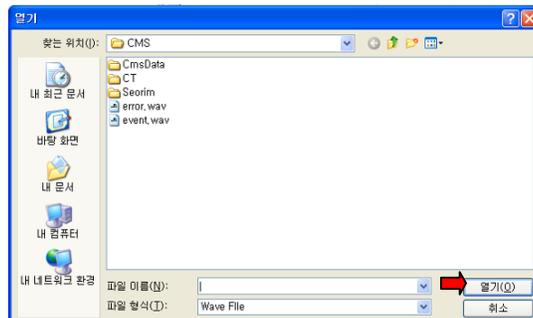
b. Warning Sound

You can create or change a warning sound when an event happened or the DVR is disconnected.



If you want to set a warning sound, check “Event”, “DVR Disconnect” or both of them and click the “...” button to be indicated by the red arrow on the left picture.

Click the “>” button to play the selected sound.



Select a desired sound file(wave file) and then click the “Open” button to be indicated by the red arrow on the left picture.

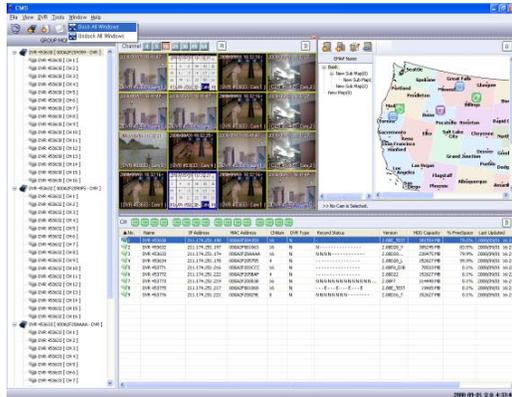
c. Languages

The CMS can support another languages as well as English. Select a desired language.

5.5. Window

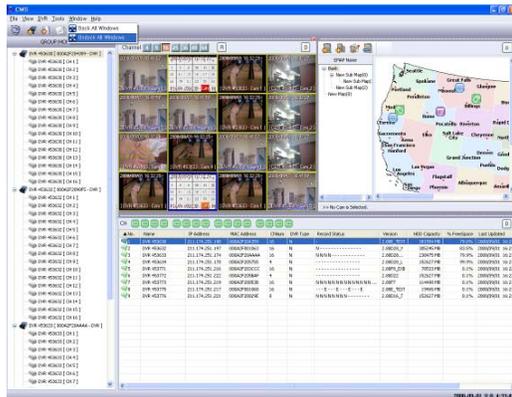
5.5.1. Dock All Windows

Click on “Window” and then click on “Dock All Windows” to dock the all open windows to the main window like the left picture.



5.5.2. Undock All Windows

Click on “Window” and then click on “Undock All Windows”



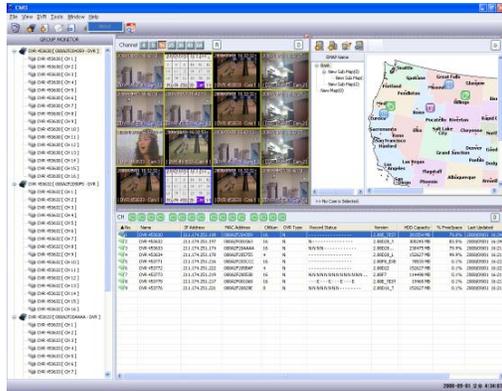
And all open windows will be displayed separately so you can display each window to different monitor.

It's useful in case of managing with many monitors.

5.6. Help

5.6.1. About

You can see the version and the released date of CMS.



Click on “Help” and then click on “About”.



And the “About CMS” window will be displayed like the left picture.

5.7. Live Monitor icon

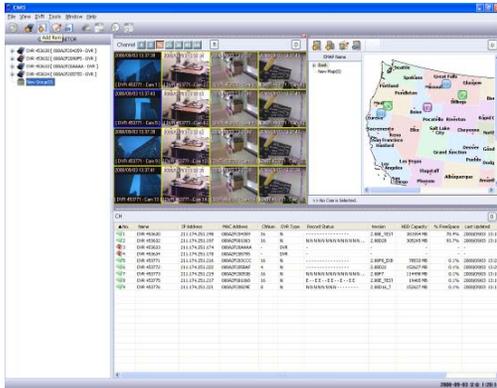
NOTE: Refer to Chapter 5.2.2 Live Screen and Live Monitor.

5.8. Device Manager icon

NOTE: Refer to Chapter 5.2.1 Device Manager.

5.9. Add Item icon for Group Monitor

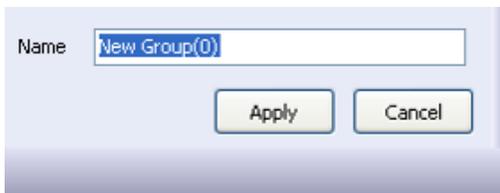
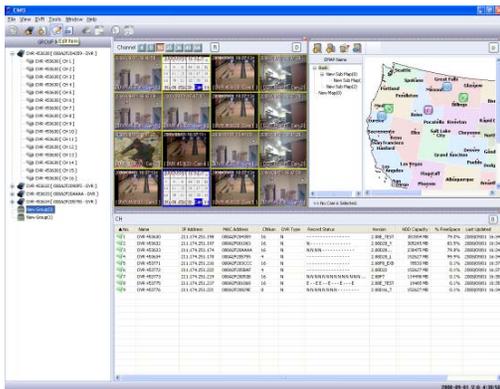
You can make manage the cameras by group. If you drag and drop a camera or a DVR from “Device Manager”, the selected camera or DVR will be listed in “GROUP MONITOR”.



Click the “Add Item” icon to add a new list.

5.10. Edit Item icon for Group Monitor

Click an editing item and then click the “Edit Item” icon.



And the editing window will be displayed below GROUP MONITOR window.

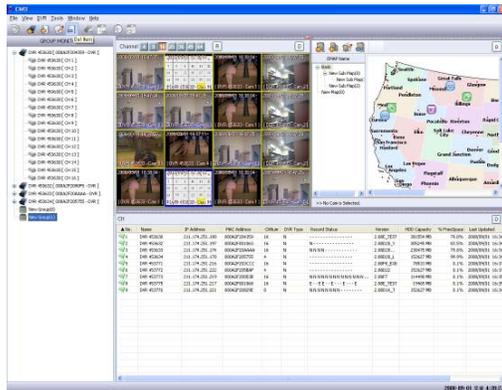
Input a desired name and click the “Apply” button.

If you want to close the editing window without revising, click the “Cancel” button.

NOTE: You cannot use the duplicated name in GROUP list.

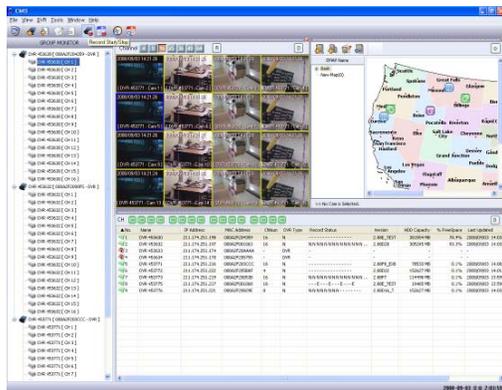
5.11. Del Item icon for Group Monitor

Click the deleting item and then click the “Del Item” icon and the selected item and sub-items will be deleted in “GROUP MONITOR”.



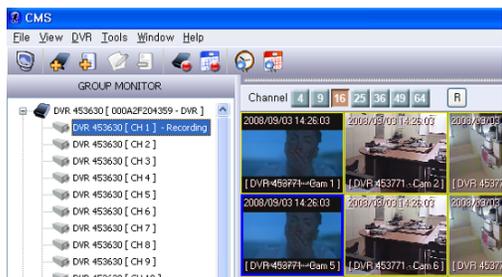
5.12. Record Start/Stop icon

You can save the live files of each camera in your PC.



Click a desired camera in GROUP MONITOR and then click the “Record Start/Stop” icon.

NOTE: Refer to Chapter 5.3.4 Record Schedule for event or schedule recording of live image.

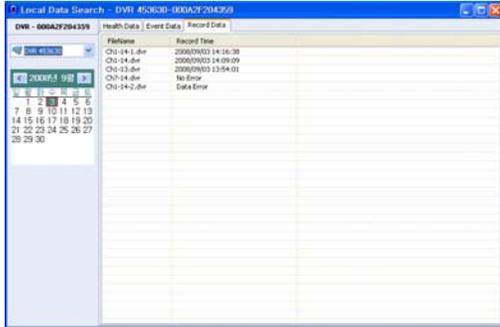


And you can see “Recording” next to the selected camera.

Click the “Record Start/Stop” icon again to stop recording.

And the live image file of the camera will be saved in your PC. The default folder to be saved files is

C:\Program Files\DVR\CMS\CmsData\Administrator\MAC address of the DVR\Record.



You can search and play the saved live files through Record Data of Local Data Viewer.

NOTE: Refer to Chapter 5.2.5.3 Record Data for more information.

5.13. Record Schedule icon

NOTE: Refer to Chapter 5.3.4 Record Schedule.

5.14. Time Search icon

NOTE: Refer to Chapter 5.3.3.1 Time Search.

5.15. Calendar Search icon

NOTE: Refer to Chapter 5.3.3.2 Calendar Search.