AVerMedia®

CM3000

Central Management System

User Manual

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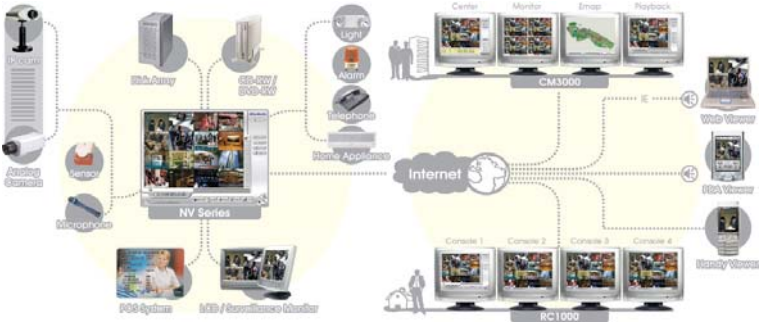
Chapter 1 Introduction

The AVerMedia® CM3000 is a central monitoring system that enables user to monitor up to 1000 DVR servers in advanced mode (see1.1) through an internet connection. Like the DVR program, the CMS system also automatically records and displays video when an event has occurred on the remote side of the DVR server. You can also playback video files locally or download from a remote DVR server.



The CMS system Supports Single, Dual, Triple and Four monitor displays. User can operate the CMS system application on different monitors.

1.1 Upgrade the BASIC mode to ADVANCED mode

The CM3000 has two operating modes – Basic and Advanced mode. In Basic mode, users only can monitor 16 remote DVR servers. With the Advanced mode, users can monitor up to 1000 remote DVR servers.
Please follow the below steps to upgrade the CM3000 from Basic mode to Advanced mode.

1. Call your local distributor and purchase a copy of the ADVANCED license or download the BASIC mode from the Internet.
2. Your local distributor will then issue you with a Password. (If you have purchased the ADVANCED mode CD, this password is located on the CD sleeve itself).
3. The Password is only valid for one time and is tied to the PC hardware. Do not release the password to any third party.
4. Run the CM3000 program.
5. Click the exit button 'x' on the upper right corner of the CM3000 main screen.
6. Click **About** →**Register** (also see 3.2 # 1)
7. On the **Register** dialog box, note down the Activation number. Send both the Activation number and Password to your distributor.
8. Your distributor will then issue you with a Serial Key, which is tied to Activation number.
9. Go back to the **Register** screen and fill in the serial number from the distributor to upgrade the CM3000 to ADVANCED mode.

The BASIC mode and ADVANCED mode only differs in the number of DVR servers that can be monitored at the same time. You have the same functionalities on both products.

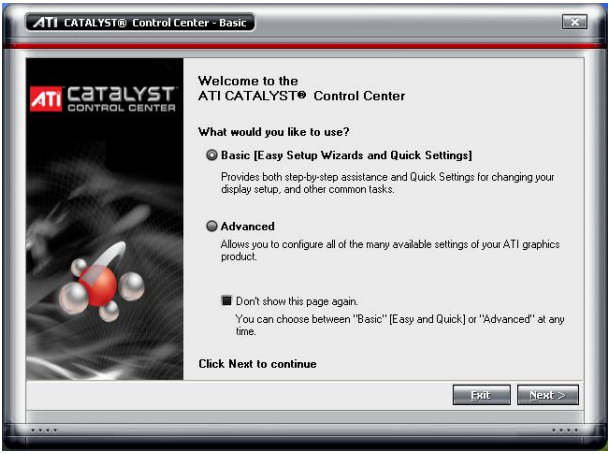
1.2 Dual Monitors setting

Video configuration is different for each different VGA chipsets. Please follow the steps below to setup the dual monitors display.

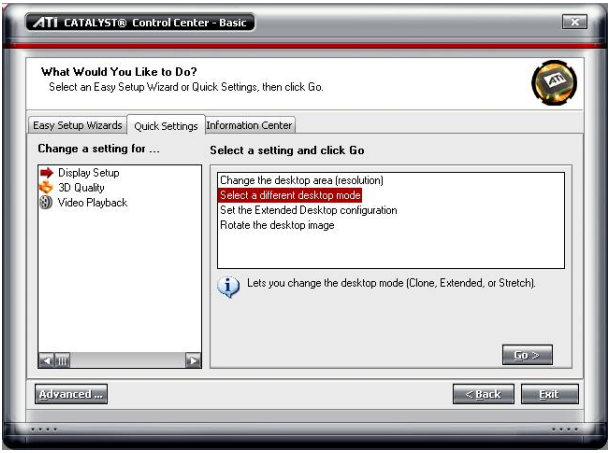
1.2.1 Graphic card with ATi chipset

1. Enter the ATI Catalyst Control Center, user can click the short-cut or right click on the screen.

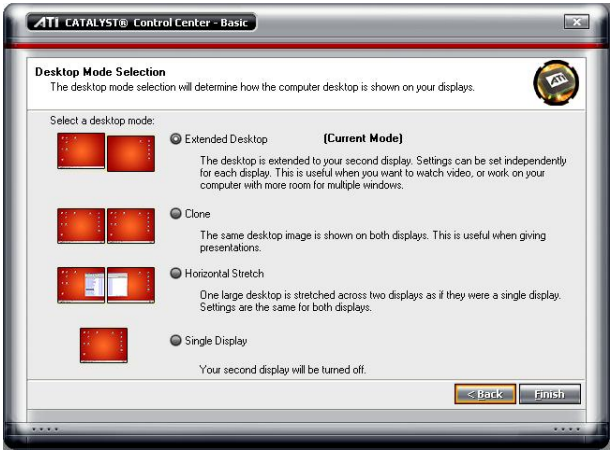
2. There are two modes to select — Basic and Advanced.



3. If user selected Basic mode, press the **Quick Settings** tab. Then select the **Select a different desktop mode** and click **Go**.



4. Select the **Extended Desktop** and then click **Finish**.

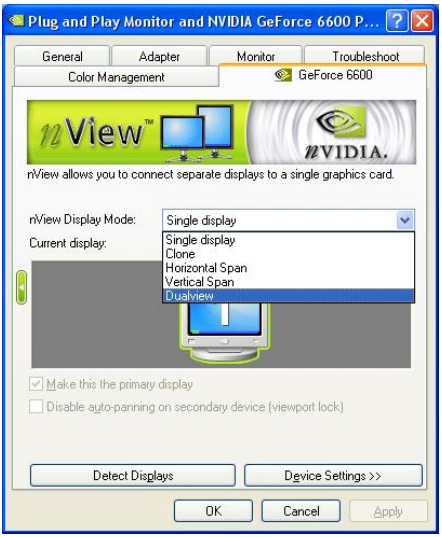


5. If user selected the Advanced mode, click the **View** button.
6. In **Display Manager**, right click on the second Display on the right side and select **Extend Main onto monitor**.

7. Adjust each monitor resolution to 1024x768.

1.2.2 Graphic card with NVIDIA chipset

1. Click the NVIDIA nView, and select the **Dualview** mode.
2. Adjust each monitor resolution to 1024x768.



3. To review if the display mode is correct, you can check the task bar. The task bar will show on the first monitor only.

Monitor 1 **Monitor 2**

Manual Conventions

The following conventions are used throughout this manual.

⚠	The caution symbol is intended to alert the user of the importance of the particular installation and operating instructions. Failure to comply may damage the system.
ⓘ	The information symbol is intended to provide additional information for the purpose of clarification.

Chapter 2 Software Installation

This chapter describes how to install the CM3000 software.

Before installing the software, make sure the Windows OS patches are up to date and the video graphic card driver is up to date.

To ensure you have the latest copy of the CM3000 software, download the updated version from the following site:

Worldwide :

http://www.avermedia.com/cgi-bin/support_download.asp

US/CANADA:

http:www.aver.com/security.html (click on Support → Download)

2.1 Minimum System Requirements

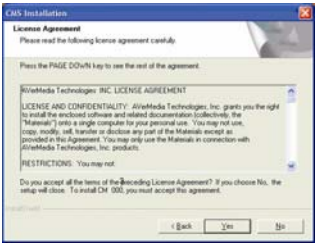
First, must verify if the computer meets the minimum system requirements.

☐	CPU	: Pentium® 4 3.0GHz or above recommended
☐	OS	: Windows 2000 / XP Professional
☐	RAM	: 512MB for dual display,1GB for Quad display
☐	Hard disk	: 120GB or higher
☐	Media	: CD-ROM drive
☐	VGA	: 32-bit high color SVGA graphics card with 128MB video memory and DirectDraw® / YUV Rendering Capability
☐	Audio	: Sound card and speakers
☐	Internet capacity	:10/100 Base-T Ethernet card or Gigabit Ethernet

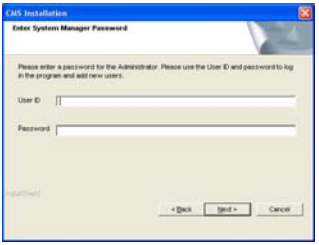
2.2 Installing the CM3000 Software in Windows XP/2000

1. Place the installation CD into the CD-ROM drive then click **Install CM3000**. And follow the on-screen instructions.

2. Please carefully read the license agreement. Click **Yes** to accept the agreement.



3. Enter the administrator ID and password.



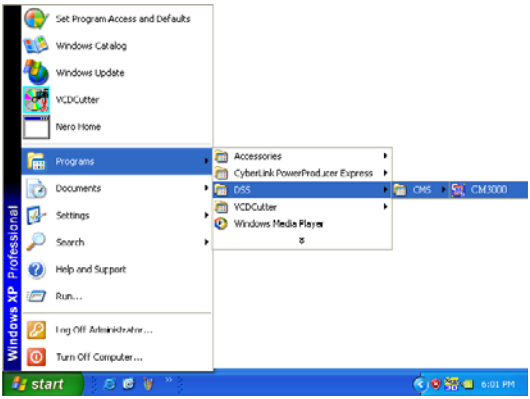
4. Click **Finish**.

5. User may now run the CMS program. To run the application, click on your PC desktop or click **Start**>**Programs** >**DSS**>**CMS** > **CM3000**.

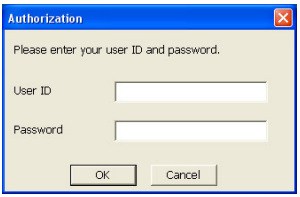
Chapter 3 Using the CM3000

3.1 Running the CM3000 Software

To run the application, double-click on your PC desktop or click **Start** > **Programs** > **DSS** > **CMS** > **CM3000**.



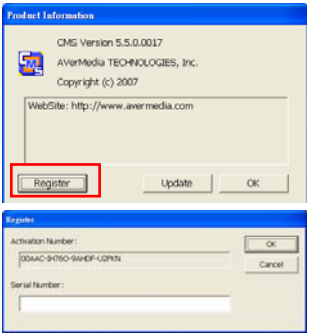
For security purposes, some of the features would require you to enter a User ID and Password before they can be accessed. When the Authorization dialog box appears, key in your User ID and Password. (If this is the first time, enter the one you have registered when installing the software.)

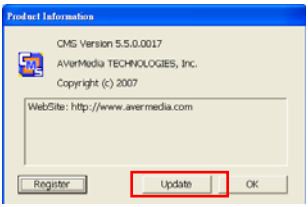
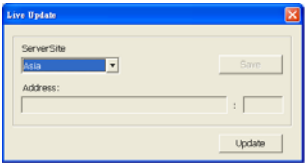


3.2 Using the CMS Application

When an alarm occurred on the DVR server, the video is transmitted to the CMS and played on the CM3000 main screen. The transmitted video is approximately 3 seconds long. You may download and playback the complete video directly from the DVR server by clicking on the event log. Make sure the main DVR server is set to send video to the CMS when an alarm has occurred.

The video stream before the eye indicates the latest occurrence. Also, there is a red frame which indicates the latest occurrence.

Name	Function
(1) Exit	Call up the Logout dialog box. In the logout dialog box, you may do the following: - Click **Exit** to close the CMS program. Only the administrator is authorized to access this command. - Click **Login** to sign-in as a different user. - Click **Cancel** to close the Logout dialog box. - Click **About** to find out more about the software and register the CMS application. Click **Register** to call out the registration window. Enter the serial number in the **Serial number** column and click **OK** to complete the registration. 

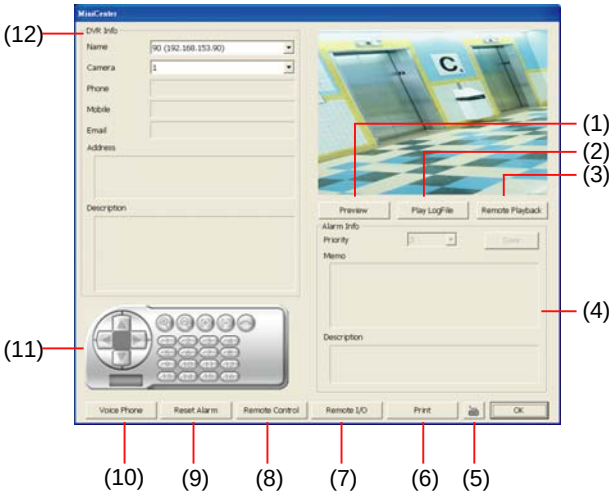
Name	Function
(1) Exit	- Click **Update** in Register window to upgrade the newest CM3000 application. For more detail, please contact your local sales dealer.   - Once registration is completed, the CMS application will upgrade to ADVANCED mode and can monitor up to 1000 DVR servers. - Without the registration, CMS application is operating in BASIC mode and can only monitor 16 DVR servers. - How to upgrade to ADVANCED mode, please refer to 1.1 .
(2) E-map (F3)	Switch to display the map and show the location of the DVR server on the map. If you are using a single monitor, press **ESC** to revert back to the CMS main application.
(3) Monitor (F4)	Switch to display live video from the selected DVR servers group. If user is using a single monitor, press **ESC** to revert back to the CMS main application.
(4) Reset Alarm	Click to reset all DVR alarm status
(5) MiniCenter Viewer	To call out the MiniCenter viewer. Also, user can double click on screen or alarm event to call out the MiniCenter Viewer.(Also refer to Chapter 3.3)
(6) Network	Enable/disable the remote alarm data received. This is activated automatically when the CMS software starts up.
(7) Setup	Configure the CMS system settings. Only the administrator is authorized to access this command. (see also Chapter 4)
(8) Playback	Select to playback video from the local hard disk or remote DVR server.
(9) Event log	Show a record of activities that has taken place in the system (see also Chapter 6).
(10) Status	Display the current date, and time
(11) Log extender	Expand and reduce the log viewer

Name	Function
(12) Log viewer	List the entire info in event mode or text mode from all DVR servers.

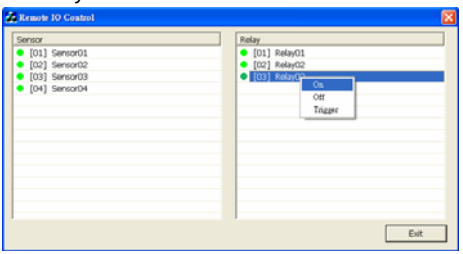
There are a few Hot keys for quick switching between the different applications or display mode on a single monitor system.

- F1: displays current DVR server information on the CMS Monitor screen
- F3: Switches to E-Map mode
- F4: Switches to Monitor mode
- Esc: Switches back to the CMS application main screen

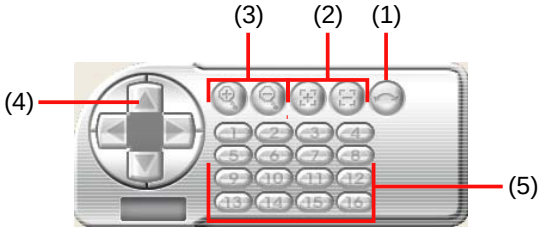
3.3 Using the MiniCenter Viewer



Name	Function
(1) Preview	View live video.
(2) PlayLogFile	Playback the alarm video clip that is stored on the local hard disk.
(3) Remote Playback	Set the amount of time before and after the event to be retrieved from the DVR server. Click **OK** to accept and play the retrieved video and **Cancel** to void the request (see also Chapter 5.3)
(4) Alarm Info	Display alarm event information which it was defined on DVR server. User can select priority of alarm event and click **Save** button to save the setting.

Name	Function
(5) On Screen Keyboard	If the keyboard is not available, you may use the Virtual Keyboard.
(6) Print	Click to print out the on screen information of DVR and alarm event.
(7) Remote I/O	To view sensor and relay, also to turn on/off relay on remote DVR. Select the relay and right click to turn on /off or trigger the relay. 
(8) Remote Control	Connect to the remote DVR server and operate the application. Select the DVR server from the **Name** drag down list and click the **Remote Control** button. To use this feature, make sure the DVR remote server is enabled. For more details on software usage, please refer to the DVR user manual. This feature works with NV series v 5.7 above only.
(9) Reset Alarm	Clear the DVR server alarm list.
(10) Voice Phone	Enable/disable 2-way audio function. This function allows the **CMS** and **DVR** server to talk via the internet using a MIC. Make sure your microphone and speakers work before using this function. If the DVR server Talk to web-client setting is disabled, you will not be able to hear from the other side
(11) PTZ Control	Control the PTZ camera (see also Chapter 3.4).
(12) DVR Info	Display the DVR information that user has select to preview. User can switch to view different DVR or camera by drag down the Name or camera list. Phone, Address, Mobile, Email, and Description information were defined when set up the DVR server.

3.4 Using the MiniCenter PTZ Camera Controller



Name		Function
(1)	AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(2)	Focus +/-	Adjust the focus manually to produce clearer image.
(3)	Zoom +/-	Zoom in and out the image.
(4)	Direction buttons	Adjust and position the focal point of the PTZ camera.
(5)	Camera preset position number	Move the PTZ camera to the preset point.

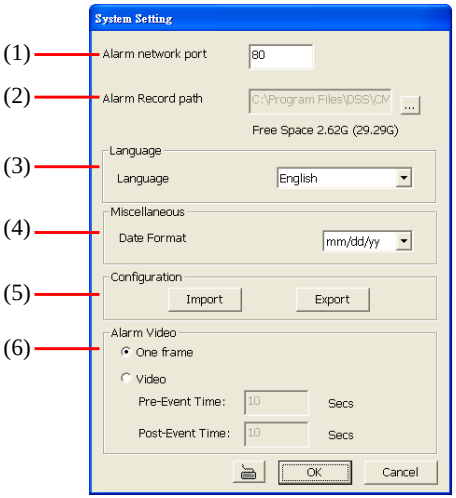
Chapter 4 Customizing the CMS System

In the CMS application, click the

button to customize the CMS system. When the CMS configuration setup selection appears, select and click the buttons you want to change the setting.

4.1 System Setting

In the System Setting dialog box, click **OK** to accept and start to reload the new setting, and **Cancel** to exit without saving.



(1) Alarm Network Port

Select a port for receiving alarm video from DVR server. Any network service port can be assigned as long as the port doesn't conflict with current network service.

(2) Alarm Record Path

By default, the alarm folder is automatically generated to where the CMS application is installed and for saving the alarm clip videos and log files. The suggested hard disk capacity for storing the alarm video is 30GB (see also 4.1.1)

(3) Language

Customize the system to display the tool tips and dialogs based on the selected language. By default the set language is in English (see also 4.1.2)

(4) Miscellaneous

Date Format - Select from different date formats (see also 4.1.3)

(5) Configuration

Import / Export the CMS system configuration

(6) Alarm Video

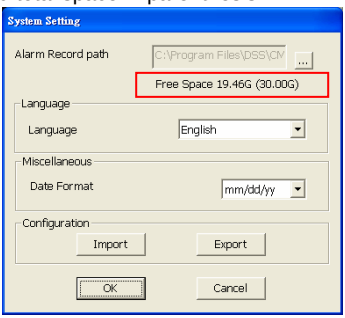
Set up the video transition when alarm occurs.

- **One frame:** a single video frame will be transmitted when alarm occurs.
- **Pre/Post Event Time:** Set the video duration before and after the event to send

4.1.1 To change the Alarm Record Storage Path

1. Click **Setup**.
2. In the Authorization dialog box, enter the administrator User ID and Password.
3. Click **System** > . In the Browse For Folder dialog box, locate where you want to store the alarm video clip. Click **Make New Folder** to create new folder, **OK** to accept and **Cancel** to exit.

4. The text below the Alarm Record path text box shows the hard disk free space and total space in parenthesis.



5. In the System Setting dialog box, click **OK** to start reloading the new setting and **Cancel** to exit without saving the new setting.

4.1.2 To Set the System to a Different Language

1. Click **Setup**.
2. In the Authorization dialog box, enter the administrator User ID and Password.
3. Click **System**.
4. In the Language drop down list, click and select the language.

4.1.3 To Change the Status Date Format

1. Click **Setup**.

2. In the Authorization dialog box, enter the administrator User ID and Password.
3. Click **System**.
4. In the Date Format drop down list, click and select the style.
5. In the System Setting dialog box, click **OK** to accept the new setting and **Cancel** to exit without saving the new setting.

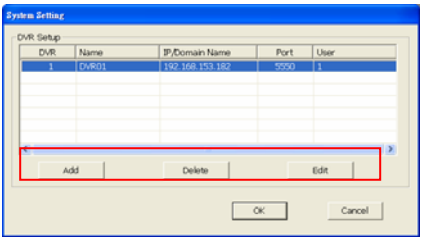
4.2 DVR Setup

Display the list of all DVR servers. User may add up to 1000 DVR servers, delete and modify the DVR setting.

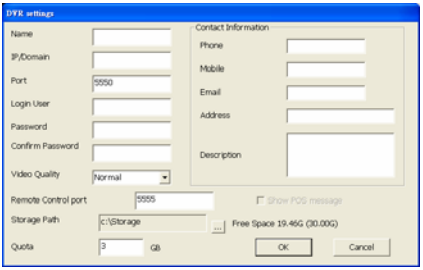
- In ADVANCED mode, user can add up to 1000 DVR servers(see 1.1)
- In BASIC mode, user only can add 16 DVR servers

4.2.1 To Add and Remove DVR Server

1. Click **Setup**.
2. In the Authorization dialog box, enter the administrator User ID and Password.
3. Click **DVR**.
4. In the DVR Setup section, click **Add** to insert, **Delete** to remove and **Edit** to modify DVR server setting.



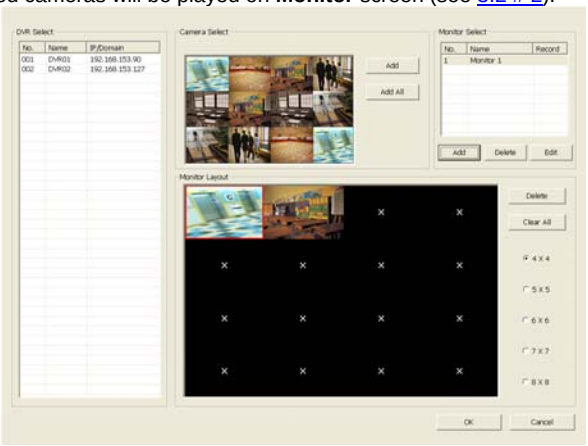
5. To continue adding a DVR, in the text box, enter the name, IP/Domain, Login User, Password, Confirm Password of the remote DVR server.
6. If necessary, fill up the contact information to let the personnel in the CMS side know whom to get in touch with when an event has occurred.
7. Select the **Video Quality** for video display on the CMS system monitor screen. When the video quality is high, user can enable **Show POS message** box and the POS message will also display on the CMS system monitor screen.
8. Set the **Storage Path** for saving the recorded video data of the selected cameras on the Monitor screen.
9. Set the max video recorded storage capacity of this DVR server on the CMS system server. Enter the value in **Quota**.



10. In the **DVR Setting** dialog box, click **OK** to accept the new setting and **Cancel** to exit without saving the new setting.

4.3 Camera Setup

Select the camera from different DVR servers in order to monitor on same screen. The selected cameras will be played on **Monitor** screen (see 3.2 # 2).



1. Click **Setup**.
2. In the Authorization dialog box, enter the administrator User ID and Password.
3. Click **Camera**.
4. Click **Add** to create a monitor set. The monitor set can be added up to 8 monitor set. To record the cameras video, mark the **Record** box. Otherwise, the cameras video will not be saved on the CMS system hard disk. However, only the first and second monitor set can be recorded video. When playback the recorded camera video, user need to select the DVR server.
5. Select the DVR server. And then the cameras of the DVR server will display on the **Camera Select** window. User can combines different cameras from different DVR servers as a monitor set.
6. Select the camera that user wants to add, and then click **Add** button. The camera will be added to **Monitor Layout** window. User can add up to 64 cameras by select the camera display format from **4x4**, **5x5**, **6x6**, **7x7**, and **8x8** format. To remove the camera from the **Monitor Layout** window, select the camera and click **Delete** button. To delete all cameras, click **Clear All** button.

7. Click **OK** to save the setup. To exit without saving, click **Cancel**.
8. User can view different monitor set on Monitor screen by click monitor switch button.

9. To delete the monitor set, select the monitor set in Monitor Select windows and click **Delete** button.
10. To modify the monitor set, select the monitor set in Monitor Select windows and click **Edit** button.

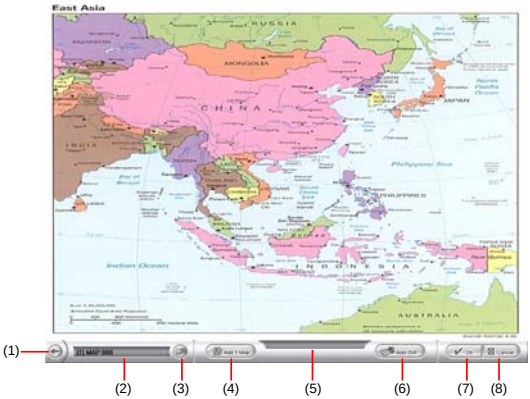
4.4 E-MAP Setup

Holds up to 64 maps in *.bmp/*.jpg format. The map is hierarchy in structure and users can add a map on another map. User also may add the DVR icons on the map.

4.4.1 To Set Up the E-Map

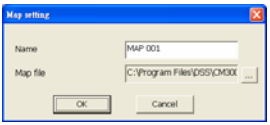
1. Click **Setup**.
2. In the Authorization dialog box, enter the administrator User ID and Password.
3. Click **E-Map**.
4. The E-Map interface will show up in second monitor if user is using multiple monitors for the CMS system. If user is using single monitor for the CMS application, the E-Map interface will show up in front of the CMS application interface. Press **Esc** to switch back to CMS application interface or press **F3** to switch to E-Map interface again.
5. On the E-Map interface:
   - (1) go back to previous layer of map
   - (2) Show the current name and layer of map
   - (3) Load a map to replace the current map

- (4) Add a new map. The new map is added on the current map as a next level.(See 4.4.1.1)
- (5) Display the selected Map or DVR server information.
- (6) Add a DVR server icon on the map. (See 4.4.1.2)
- (7) Click **OK** to save the setting and exit the E-Map interface.
- (8) Click **Cancel** without saving the setting and exit the E-Map interface.

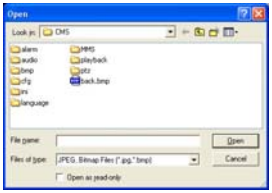


4.4.1.1 Add a New Map

1. Click button
2. In the Authorization dialog box, enter the administrator User ID and Password
3. Click **E-Map** button
4. Click **Add Map** button and the **Map setting** window will show up.



5. Give a name for the new map.
6. Click to locate the map file. In the open dialog box, locate and select the map and click **Open**

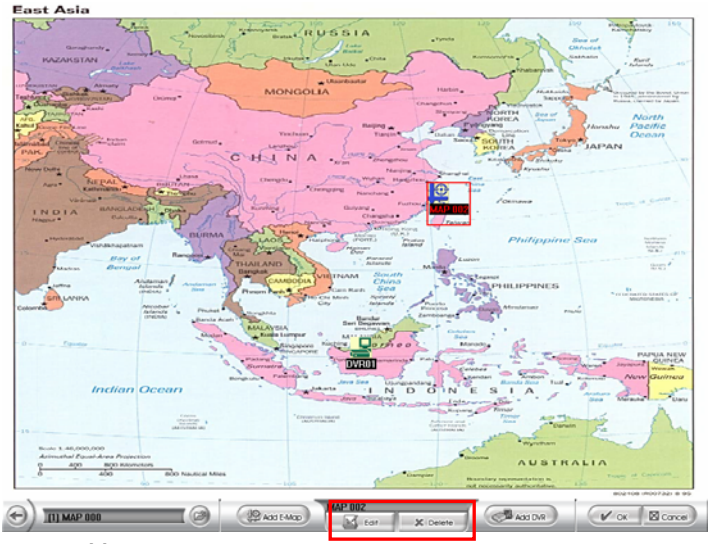


7. User may now drag and move the Map icon to its place on the map.
8. User can double click the Map icon to view the map.
9. To edit and delete the map, click the map icon and **Edit** and **Delete** button will appear on the Map interface. Click **Edit** to modify the map

(see 4.4.1.1 # 5~6). To delete the map, click the map icon and click **Delete** button.

10. Click **OK** to accept the new setting and **Cancel** to exit without saving the new setting.

- User can add up to a total of 64 maps
- User also can right click the mouse button on the map, a function list window will show up. User can select the function to add and modify the map.



4.4.1.2 Add a DVR Server

1. Click Setup button
2. In the Authorization dialog box, enter the administrator User ID and Password
3. Click **E-Map** button
4. Click **Add DVR** button and the Add DVR window will show up.
5. Select the DVR server from the Add DVR window and click OK.

6. User may now drag and move the DVR icon to its place on the map.
7. To edit and delete the DVR server on the map, click the DVR server icon and the **Edit** and **Delet**e buttons will appear on the Map interface. Click **Edit** to modify the DVR server (see 4.2.1 # 5~10). To delete the DVR server from the map, click the DVR server icon and

click **Delete**.

8. Click **OK** to accept the new setting and **Cancel** to exit without saving the new setting.

User also can right click the mouse button on the map, a function list window will show up. User can select the function to add, delete, and edit the map.

4.4.2 To Use the E-Map

When the alarm has been activated, the DVR icon blinks and turns red.

1. On the CMS main application, click **E-map** or press **F3**.

2. Click the DVR server icon and a **DVR watch** window will show up and

connect the DVR server to play the live video.

3. To stop the DVR server icon from blinking, right click the mouse button and select **Reset Alarm** or **Reset Alarm (all)**. The DVR server icon will stop blinking.
4. To switch back to the main application, press **ESC**.
5. To setup the E-Map, click button or right click the mouse button and select **E-Map setup** and the E-Map interface will switch to the E-Map setup mode. (see 4.4.1)

- If user uses dual monitor, the E-map setup mode is active in E-Map windows and the E-map setup mode will not enable to active in CMS main screen.
- To switch back the setup mode in CMS main application, click **OK** or **Cancel** to exit the setup mode in E-Map interface.

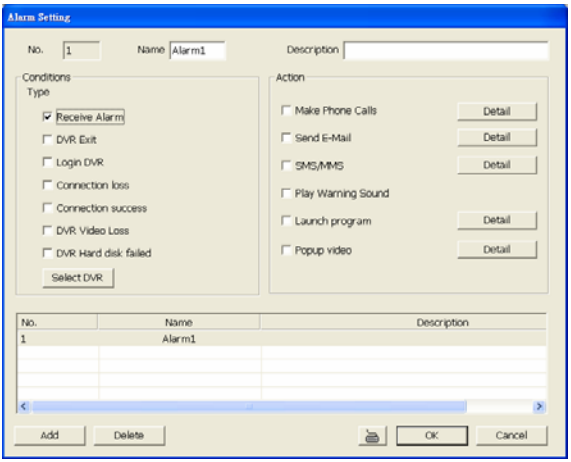
6. User can click the Map icon on the map to view the map. And the map can be added map on map and up to 64 maps. (see 4.4.1.1).

4.5 Alarm Setting

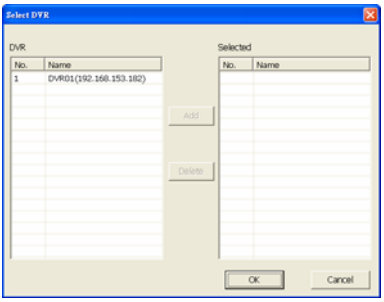
In the **Alarm Setting** dialog box, just select and enable the condition for the system to alarm and the action for the system to perform when an alarm is activated. User can setup a total of 16 different combinations of alarm settings. Each alarm setting can apply to several DVR servers. Click **OK** to accept new setting and **Cancel** to exit without saving.

4.5.1 To setup an alarm condition

1. Click the **Add** button to add a new alarm condition.
2. Give the name of this alarm condition.
3. Fill the simply description of this alarm condition in **Description** column.
4. Select the **Conditions**.
5. Select the **Action**.(see 4.5.1.1 & 4.5.1.2 & 4.5.1.3 & 4.5.1.4 & 4.5.1.5)



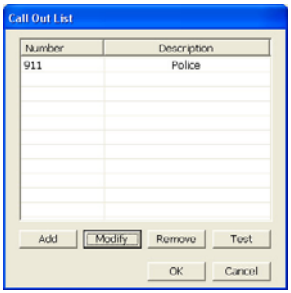
6. Apply to the DVR server, click **Select DVR**. In Select DVR window, select the DVR server and click **Add**. To exit and save the setup, click **OK**.



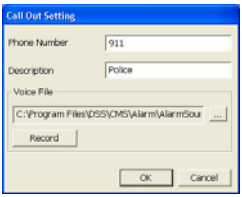
4.5.1.1 To Setup the Call Out List

To use this feature, the PC must have a voice modem connected to it. The supported audio system is only 8KHz and 16Bit mono.

1. Beside the Make Phone Calls check box, click **Detail**.
2. In the Call Out List, click Add to insert a new contact number, Modify to edit the selected item, Remove to delete the selected item, Test to check if it is working.



3. In the Call Out Setting, enter the phone number and description. Click ... to select existing recorded sound and Record to make a new voice message.

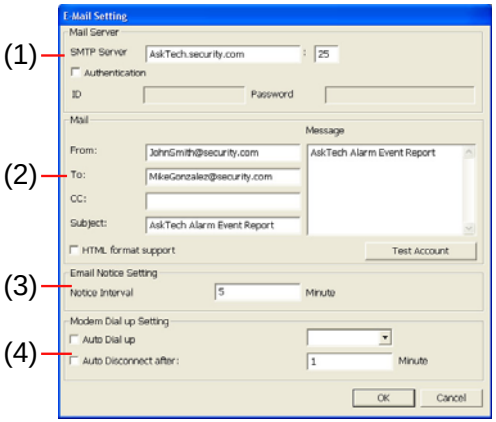


4. When the Sound Recorder appears, use the record control panel to record, stop, play, rewind and forward. If you want to keep the existing file, click File > Save As…, enter filename and click Save. Make sure you have microphone connected to your PC.
5. Click OK to exit and accept the setting and Cancel to exit without saving the setting.

4.5.1.2 To Setup the Send E-Mail Setting

Beside the Send Email check box, click Detail. In the E-mail Setting dialog

box, click OK to exit and save the setting and Cancel to exit without saving the setting.



(1)Mail Server

Enter the SMTP Server and port. If your e-mail system requires user identification, enable the Authentication check box and enter User ID and Password.

(2)Mail

To check if it is working, click the Test Account button.

From:	Enter the sender e-mail address.
To and CC:	Enter the recipient email address and separate it with comma or a semicolon (;).
Subject:	Enter the message title.
Message:	Type the message.

(3)Email Notice Setting

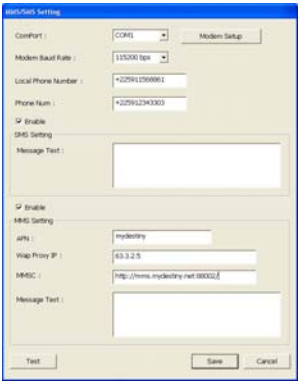
In the Notice Interval text box, set the period of time before it sends another e-mail notice.

(4)Modem Dial up Setting

If you are using dial up modem, enable Auto Dial up check box and select the modem name. You may also set the time to disconnect automatically, just enable the Auto Disconnect after check box and set the time.

4.5.1.3 To Set the MMS/SMS Setting

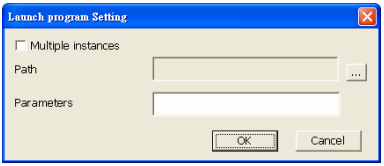
To use this feature, GSM/GPRS modem is required. Connect the GSM/GPRS modem to the serial COMM port of PC. Beside the SMS/MMS check box, click Detail.



1. Select the port number in **ComPort** drop down list from where the GSM/GPRS modem is connected.
2. Click **Modem Setup** button to automatically detect the Modem Baud Rate.
3. In **Local Phone Number** text box, enter the GSM SIM card phone number.
4. In **Phone Num** text box, enter the contact number.
5. You may now set to send thru SMS &/or MMS. If you enable SMS setting, just enter the message in the text box. If you enable MMS, enter the APN name, WAP IP, MMS address and the message. If you are not sure, please contact your mobile service provider.
6. Click **OK** to accept the new settings and **Cancel** to exit without saving.

4.5.1.4 Launch program

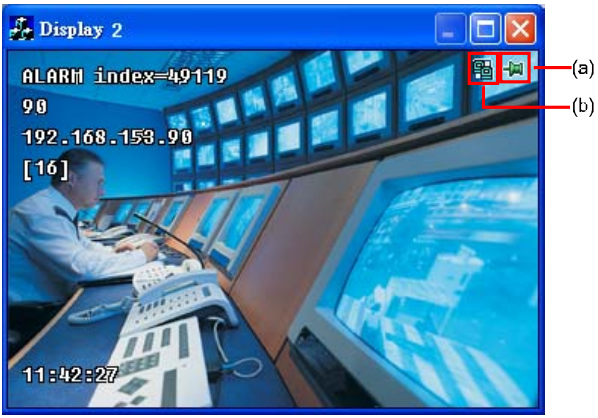
To call up the external program that is provided by a 3rd party. Click Detail and click ... to locate the program path. Enable the **Multiple instance** check box if the external application has been programmed to execute repeatedly.



4.5.1.5 Popup Video

The Popup video will co-work with alarm condition of **Receive Alarm**. When user selects the alarm condition of Receive Alarm, and then the action of Popup video will be un-gray and available for select. The popup video will show up 4 windows at once.

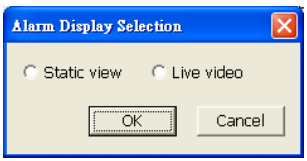
On the upper right corner of popup video windows, there two figures that are to represent nailed popup video windows and mini center function.



(a) To nail popup video window for avoiding new coming alarm video to replace it.
(b) To call out MiniCenter(also see Chapter 3.3)

To Setup Popup Video:

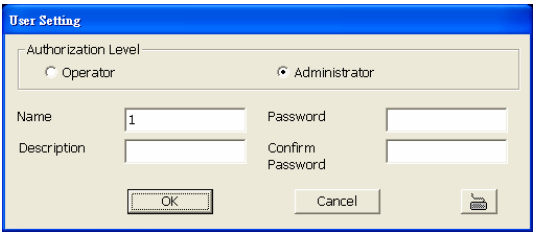
1. Click **Detail** to call up Popup Video setup windows.
2. Select the type of popup video
   - **Static View:** The DVR server only transmits on frame of video and popup on CMS site.
   - **Live View:** The DVR server will continue to transmit video to CMS site when popup video window is open.
3. To close popup video windows, just click “X” of windows.



4.6 User Setting

CMS is limited to one operator and one administrator user account only. If there is an existing account, the old one will be replaced.

1. Select the type of user. **Only the administrator is authorized to close and customize the CMS system.**
2. In the text box, enter the name, description, password, and confirm password of the user.
3. Click **OK** to accept the new settings and **Cancel** to exit without saving.

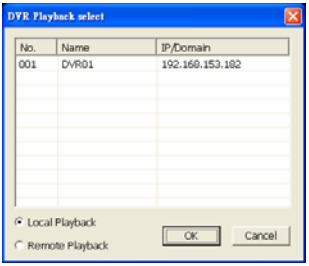


Chapter 5 Using the Playback Function

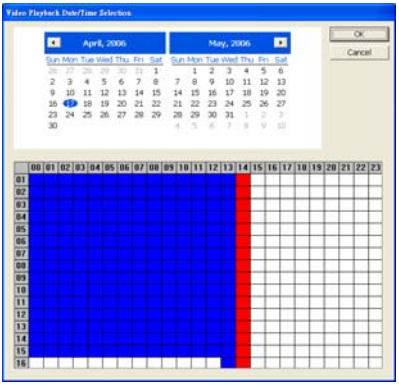
User can choose to playback video stored on the local hard disk or download the video from the remote side of the DVR server.

5.1 To Playback the video

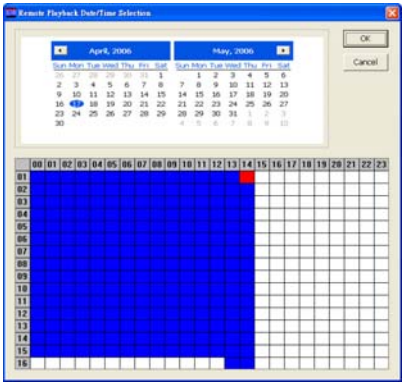
1. Click
2. In the **DVR Playback select** window, select DVR server and **Local Playback** to play video from the local hard disk or **Remote Playback** from the remote DVR server.



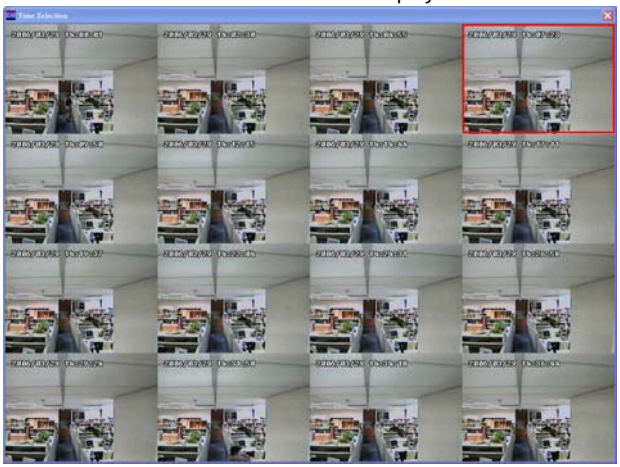
3. For Local Playback, user can select to preview 16 channels at a time. Only the cameras previously selected in **Monitor** and with the **Record** button enabled /recorded can be recorded. In the Video Playback Date/Time Selection, the numbers from 00 to 23 represent the time in 24-hour. The numbers from 01 to 16 represent the camera number. The blue block indicates that there is a recorded video file in that period of time. While the red bar indicates the selected recorded video for viewing (see also 5.2 Using the Local Playback Application).



4. For Remote Playback, you can only select to preview one clip at a time. In the Remote Playback Date/Time Selection, the numbers from 00 to 23 represent the time in 24-hour. The numbers from 01 to 16 represent the camera number. The blue block indicates that there is a recorded video file on that period of time. While the red block indicates the selected recorded video for viewing (see also 5.3 Using the Remote Playback Application).



5. For Remote Playback, in Time Selection, click the frame you want to view. User can select more than on frame to view. Click the frames and double click the last frame from selected frames. And then, all select frames will be download and playback. Also, user can select a section of frame to view, click the first frame and last frame of section and double click last frame, the selected frame section will be download and playback.



5.2 Using the Local Playback Application

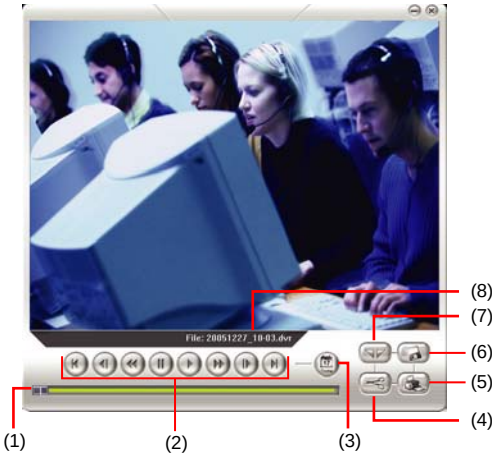
Name	Function
(1) Split Screen Mode	Select from six (6) different split screen types to playback the recorded video file of all the cameras, or one camera over the other or alongside on a single screen.

- If there are only 4 cameras, you won't be able to switch to 9, 16, and 13 split screen mode.
- To zoom into an area on the screen, **Right** click and **Drag** a square on the area you want to enlarge.

(2) Exit	Close the Player.
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
(5) Playback Control Buttons	**Begin:** Move to the beginning of the recorded video file. **Previous:** Go back to the previous frame. **Slower:** Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x. **Rewind:** Wind back the recorded video file. **Pause:** Briefly stop playing the recorded video file. **Play:** Play the recorded video file. **Faster:** Play the recorded video file at the speed of 2x, 4x, or 8x. **Next:** Go to the next frame. **End:** Go to the end of the recorded video file.

Name	Function
(6) Date	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
	The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.
(7) Status bar	Display the recorded date, time and play speed.
(8) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(9) Output	Save the segmented file in *.mpg, *.avi, or *.dvr format (see also 5.4).
(10) Segment	Keep a portion of the recorded video you want (see also 5.4).
(11) Print	Print the screen shot.
(12) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(13) Full screen	View in Playback-compact mode. To return, **Right** click the mouse or press **ESC** on the keyboard. When you switch to full screen in multiple-screen mode, **Left** click to toggle to only display one of the video in the multiple-screen mode or all.
(14) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second (See also 5.5).
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search only.
(16) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS) (See also 5.6).
(17) Intelligent Search	Search the changes in the motion detector frame (See also 5.7).

5.3 Using the Remote Playback Application



Name	Function
(1) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(2) Playback Control Buttons	**Begin:** Move to the beginning of the recorded video file. **Previous:** Go back to the previous frame. **Slower:** Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x. **Rewind:** Wind back the recorded video file. **Pause:** Briefly stop playing the recorded video file. **Play:** Play the recorded video file. **Faster:** Play the recorded video file at the speed of 2x, 4x, or 8x. **Next:** Go to the next frame. **End:** Go to the end of the recorded video file.
(3) Date	Open other file.
(4) Output	Save the segmented file in *.mpg, or *.avi, format.
(5) Print	Print the screen shot.
(6) Save	Save the screen shot either in *.jpg or *.bmp format and video in *.dvr format.
(7) Segment	Keep a portion of the recorded video you want. You may follow the instruction in Chapter 5.4.

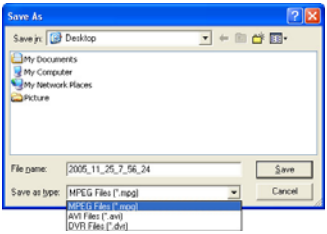
5.4 To Cut and Save the Wanted Portion of the Recorded Video

1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark.

2. Use the Playback Control buttons or drag the bar on the playback progress bar

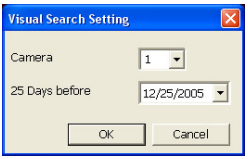
and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation or set the segment marks from the start, click **Segment** button again.

3. Click **Output** button to save the wanted clip.
4. In the Save As dialog box, locate on where you want to save the file, type the filename, and select the video format.



5.5 To Search Using the Visual Search

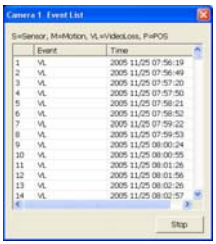
1. Click **Visual Search**.
2. In the Visual Search Setting dialog box, select the Camera number and the date. Then click **OK**.



3. When a series of frames appear by date, click on the frame to display another series of frames and search by every Hour of that date, every Minute of that hour, every 10 Seconds of that minute, every Second of that 10 seconds. To go back, click . To view from the selected frame and close event search, click .

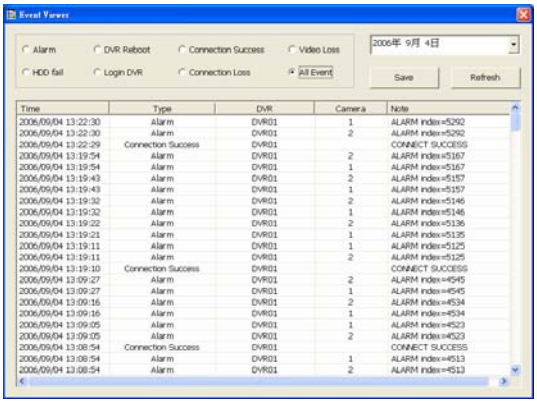
5.6 To Search Using the Event Search

1. Click on the video screen on where you want to search.
2. Click **Event Search**. The Event Search text (red) would appear at the lower left corner of the screen.
3. In the Event Search Setting dialog box, check the type of condition you want to search. If you select POS, in the Find Text box, type the word. Then, click **OK** to start searching. The video search would stop at the frame that matches the condition. To keep on searching, click .
4. You may also set to search and list all the result. Just check the **Output Event List** box. In the Search Duration section, set the **Begin Time**, **End Time** and **Searching Interval**. Then, click **OK** to start searching.
5. When the Event list appears, click and select the item you want to view.



5.7 To Search Using the Intelligent Search

1. Click on the video screen on where you want to search.
2. Click **Intelligent Search**. The Intelligent Search text (red) would appear at the lower left corner of the screen.
3. When the Intelligent Search Setting dialog box and motion detector frame appear, you may adjust the sensitivity bar and the motion detector frame size and location. To set motion detector frame size and location, left click and drag on the screen. Then, click **OK** to start searching. The video search would stop at the frame that matches the condition. To keep on searching, click .
4. You may also set to search and list all the result. Just check the **List** box. In the Search Duration section, set the **Begin Time**, **End Time** and **Searching Interval**. Then, click **OK** to start searching.

Chapter 6 Using the Event Viewer

Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Alarm, Motion, DVR Reboot, HDD fail, Login DVR, Connection Success, Connection Loss or All Event.
Click **Refresh** to update the list and **Save** to save the list in *.txt format.