

Central Management System

User's Manual

Version 1.2.0

Table of Contents

1. Overview	2
1.1 System Requirement	3
1.2 Supported IP Camera	3
2. Software Installation.....	4
3. Software Upgrade.....	9
4. Start the CMS.....	10
4.1 Language Setting.....	11
4.2 Login.....	12
5. Buttons Available on the Main Window.....	13
6. Configure Your CMS.....	17
6.1 Setup Groups.....	18
6.2 Manage the Sites.....	22
6.2.1 Add/Remove a Site	22
6.2.2 Setup the Site.....	24
6.3 Setup the File Path	28
6.4 Alert	29
6.5 CMS User	34
6.6 Sequence	38
6.7 Export or Import Settings	40
7. Basic Operations.....	41
7.1 View Live Image / Assign Camera	41
7.2 Adjust the Image.....	43
7.3 Playback Recorded Video.....	44
7.4 Configure the OSD Menu of the Connected Site	48
7.5 Search for Event Videos	50
7.6 Take a Snapshot	52
7.7 2-Way Audio Talk	53
7.8 Record Function	54
7.9 Dome Setting / Dome Control.....	55
7.10 Schedule Record Function	57
7.11 E-Map Function	66
7.12 Health Function.....	72
Appendix A: The CMS Player.....	73
Appendix B: FAQ	78

1. Overview

The Central Management System (CMS) offers a simple and centralized monitoring interface for your video surveillance equipments. It gives the user access to monitor multiple DVRs, and allows the user to simultaneously monitor 64 sites per group (up to 10 groups) within several clicks.



Features:

- **Monitor Multiple Sites** - Supports up to 10 groups, each group can add up to 64 sites
- **Alert Function (LAN Only)** - Sends live/event video clips and messages to the local computer from all connected DVR(s)
- **Connected Configuration** - Configures the settings of the connected DVR(s)
- **Remote Playback** – Allows the user to view recorded video stored in the connected DVR(s)
- **HDD Information** – Displays information of all disk drives that are being used on the local computer
- **Dome Control** - Remotely operates the speed domes via the Internet
- **Search (Devices)** - Searches the network for any available connected DVR
- **Search (Event)** - Searches the connected DVR for any recorded event
- **Record** - Records live or playback videos to your local computer (Optional)

1.1 System Requirement

The following chart shows recommended computer system:

Operating Systems	Windows XP Windows Vista
CPU	Minimum Requirement: Pentium 4 2.2GHz or above Recommended Requirement: Pentium 4 3.0GHz or above
Memory	Minimum Requirement: 512MB or above Recommended Requirement: 1GB or above
Bandwidth	Minimum Requirement: 256K or above Recommended Requirement: 1536K or above
HDD	Minimum 5GB HDD space is required if there is need to record video to the local computer.
Tested Connection Extreme	CPU: Intel(R) Core (TM)2 CPU 6320@1.86GHz, RAM: 3GB, OS: WinXp With the above system, the tested PC can stably connect to 224 channels, which is the same as 14 units of 16-ch DVRs.

1.2 Supported IP Camera

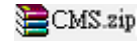
The following chart shows the IP camera types recognized by the CMS:

Brand/Model	Streaming Protocol	Video Stream Format	Audio Stream Format
DynaColor Video Server (D7521)	HTTP	MPEG-4/M-JPEG	MS-ADPCM 2-Way Audio
DynaColor MegaPixel IP Camera (nDH060)	RTP+RTSP	MPEG-4/M-JPEG	g.711 a-law, g.711 u-law 2-Way Audio
	HTTP	MJPEG	No Audio
AXIS 200 Series	RTP/RTSP	MPEG-4	Unsupported
VivoTek 7000 Series	RTP/RTSP	MPEG-4	Unsupported

2. Software Installation

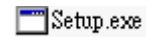
After acquired the installation file, follow the steps below to install the CMS to the local computer.

Step 1: Double click the zipped file to unzip it.

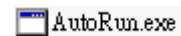


Step 2: There are 3 ways to start the installation.

Option 1: After the zip file is opened, click on the Setup.exe file to start the installation.

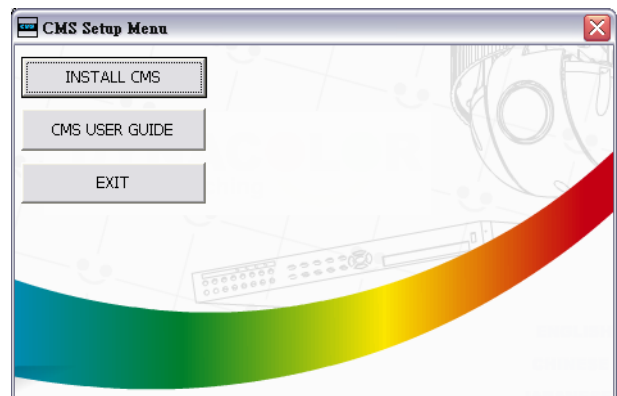


Option 2: After the zip file is opened, click on the AutoRun.exe file to start the installation.



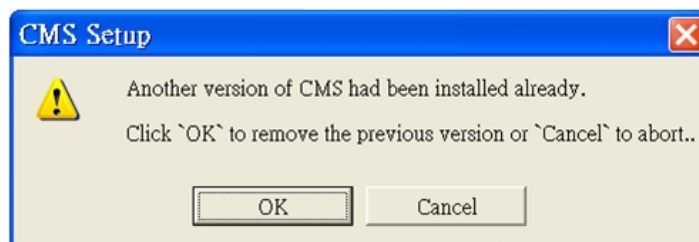
Option 3: If you are installing the program using the CD, the program will run automatically when the CD is inserted into the CD-Rom drive.

If you are using either Option 2 or Option 3 of Step 2, the <CMS Setup Menu> window will be displayed. Choose <INSTALL CMS> to start installing the CMS. Choose <CMS USER GUIDE> to open the user's manual. Choose <EXIT> to exit the <CMS Setup Menu>.

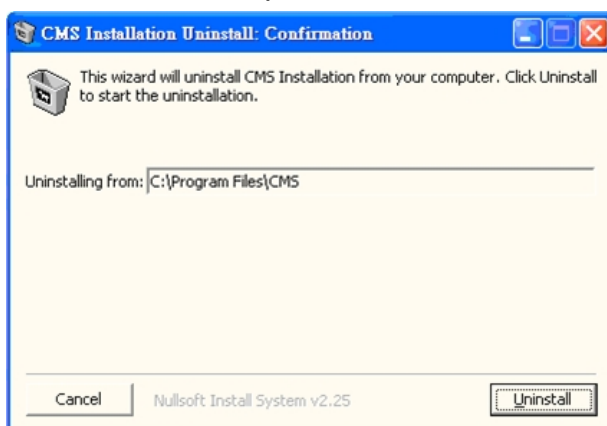




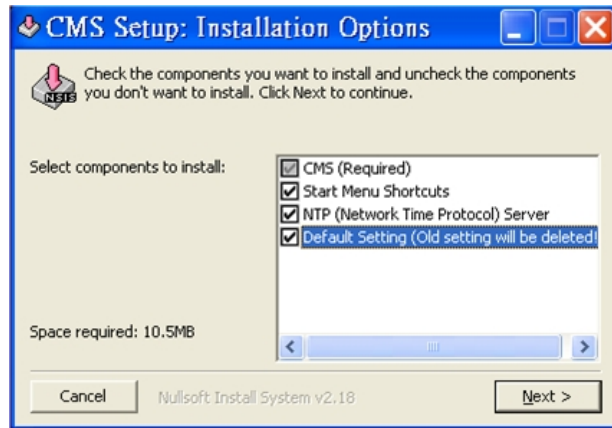
NOTE: If a previous version of the CMS had been installed in the local computer, a message box will be shown during the installation.



If you have installed an older version of the CMS, after clicking <Ok>, an <CMS Installation Uninstall: Confirmation> dialog will be displayed. Click <Uninstall> to uninstall the older version and continue with the next step.



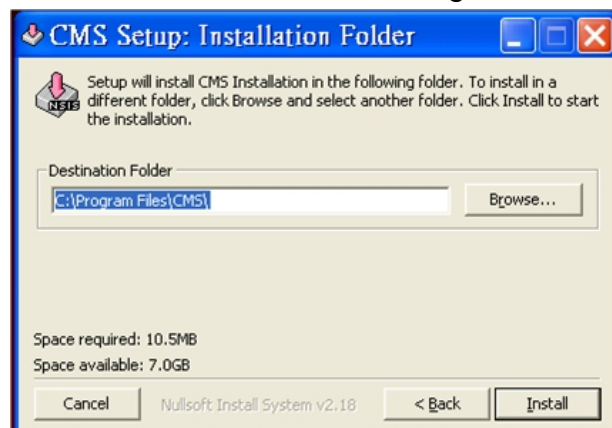
Step 3: Select the components that you want to install. It is strongly recommended to select the <Start Menu Shortcuts> to create shortcuts in the Start Menu and on the Desktop. Otherwise whenever you want to open the program, you will have to find it under the path: "C:\Program Files\CMS\EXE\CMS.exe". Click <Next> to go to next step.



The components of the CMS Installation Setup:

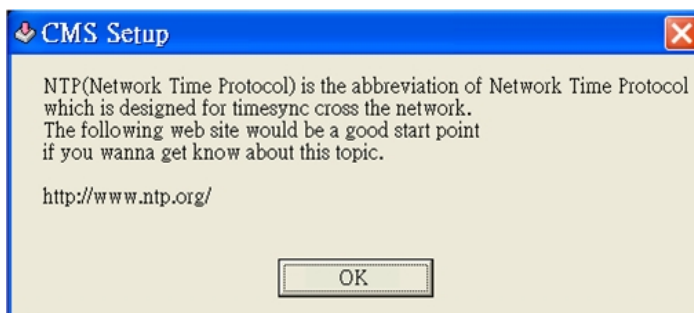
- CMS (Required)** : The CMS main program (Default).
- Start Menu Shortcuts : Check to create shortcuts in the Start Menu and on the Desktop.
- NTP (Network Time Protocol) Server : Check to install the NTP (Network Time Protocol) Server.
- Default Setting (Old setting will be deleted!) : Check this box to load default setting, or uncheck it to load the old setting of previous installed CMS.

Step 4: The CMS main program will be the first program to be installed. You can choose a folder to install the CMS or it will be installed to the default destination folder "C:\Program Files\CMS\". Click <Install> to start the Installation; or click <Back> to go back to the previous step.

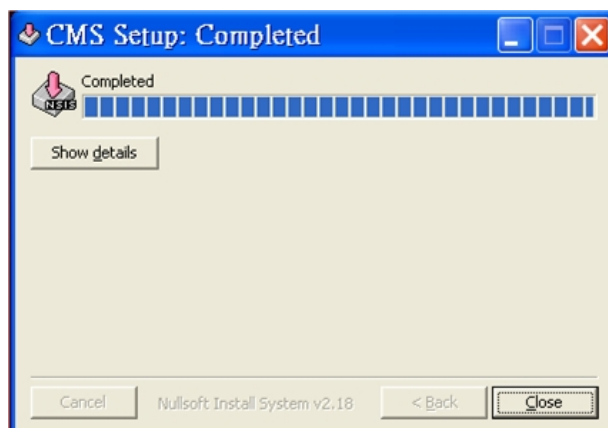


Step 5: The NTP Server will be the next program to be installed. The NTP Server enables the local computer, which is running the CMS, to become a central NTP Server for the connected DVR(s) so the time for the local computer and the connected DVR(s) is synchronized.

Click <OK> to start installing the NTP Server.



Step 6: Click <Close>, and the Software Installation is complete.



NTP Service (Server)

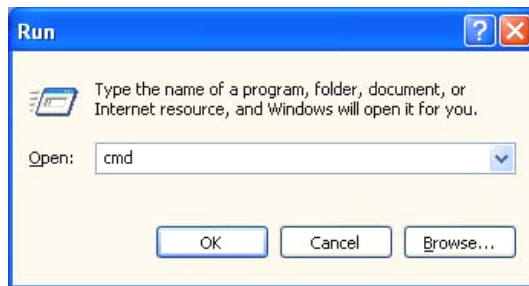
The NTP Service (Server) enables the local computer, which is running the CMS, to become a central NTP server for the connected DVR(s) so the time for the connected DVR(s) and the local computer is synchronized.

To do so, you will need to find the IP address of the local computer.

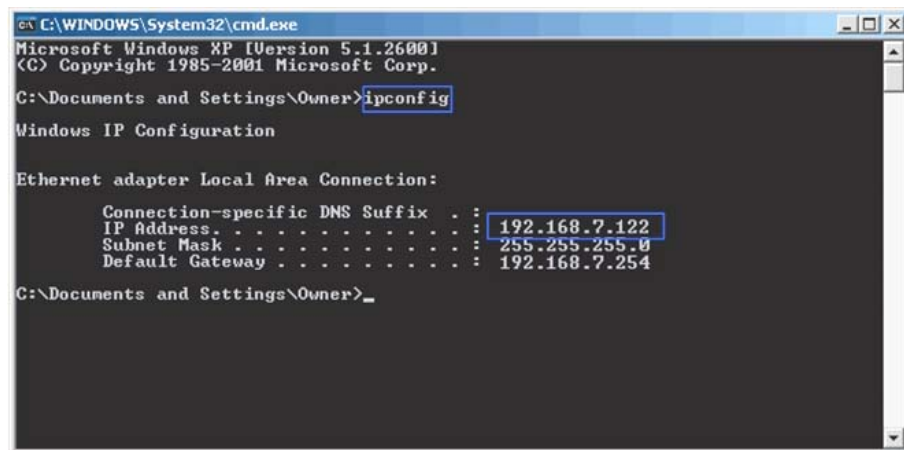
Go to **Start** menu, select **Run**.



Type in **cmd** and click OK.



Type in **ipconfig** to get the IP Address of your local computer. Write down the IP address on a piece of paper for later use.



After the IP address is found, you can setup the connected DVR(s).

First, go to <Main Menu> → <System Setup> → <Date/Time> → <Time Zone> to setup time zone. To find out your local time zone, please visit www.greenwichmeantime.com



NOTE: The <Time Zone> must be set or the <Network Time Protocol Setup> will not be accessible.

After entered your local time zone, the <Network Time Protocol Setup> option will be accessible. Go to <Main Menu> → <System Setup> → <Date/Time> → <Network Time Protocol Setup>, and the following menu will be displayed.

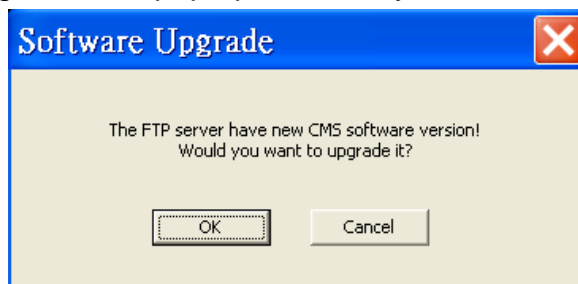
Network Time Protocol Setup	
1. NTP Server	time.nist.gov
2. Automatically Time Sync	1 hour
3. Manually Time Sync	No

In this example, the NTP server should be set to 192.168.7.122 which is the IP address of the local computer. After the NTP server is set, select <Manually Time Sync> to sync the time with the local computer. The time sync can also be updated periodically. Select <Automatically Time Sync>, and choose a desired time interval to sync the time.

3. Software Upgrade

The CMS will automatically connect to the FTP Server and check for upgrade every once a week. If no upgrade is available, the CMS will continue normal process. If upgrade is detected, please follow the steps below to proceed.

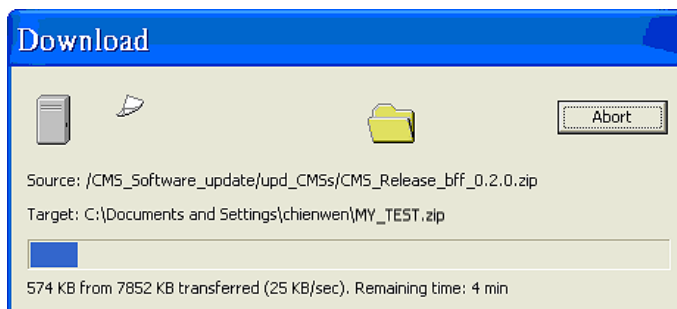
Step 1: A message box will pop up to inform you there is upgrade available.



Click <OK> to download the upgrade software and continue to the

next step. Otherwise, click <Cancel> to abort.

Step 2: If you click <OK>, choose a destination folder to save the file. Then a window will pop up and show the downloading status.



If you click <Abort>, the downloading process will stop and the CMS will be started as usual.

Step 3: When the download is completed, you can start to install the upgrade version of the CMS following the same procedures described in the “Software Installation” section.

4. Start the CMS

There are 3 ways to start the CMS. Note that method A and B are only available if the “Start Menu Shortcuts” component is installed. Please see section <Software Installation> for more information.

Method A: Click Start menu and select Programs; find “CMS” from the listed programs.

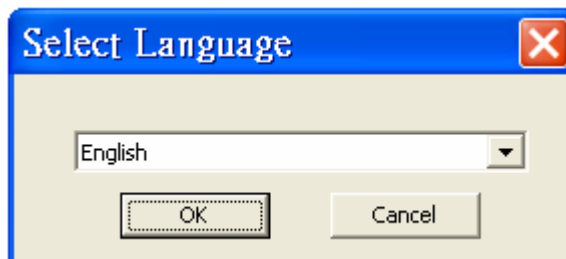
Method B: Double click  shortcut icon on your desktop.

Method C: Go to “C:\Program Files\CMS\EXE\” and double click on the



4.1 Language Setting

If you are using the CMS for the first time, you will need to set the language for the interface. The available languages are listed in the box. Click <OK> after selected the language.

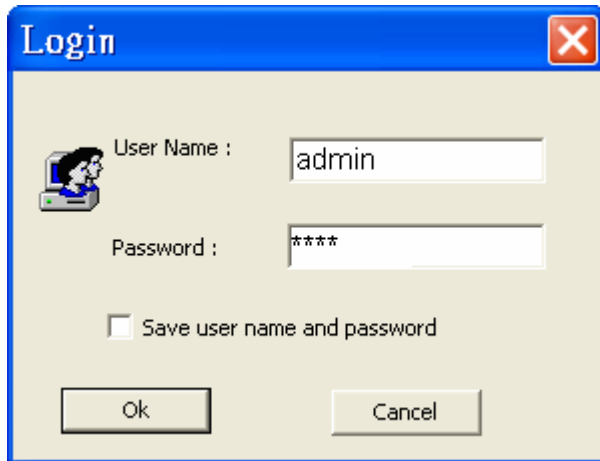


4.2 Login

The default User Name & Password are listed below.

User Name: admin

Password: 1234

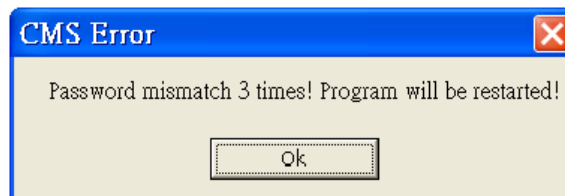


Check <Save user name and password> if you do not wish to enter these information next time you login. Click <OK> to login.

You can add or remove a user in the <CMS User> option. Please refer to the <CMS User> section for more information.

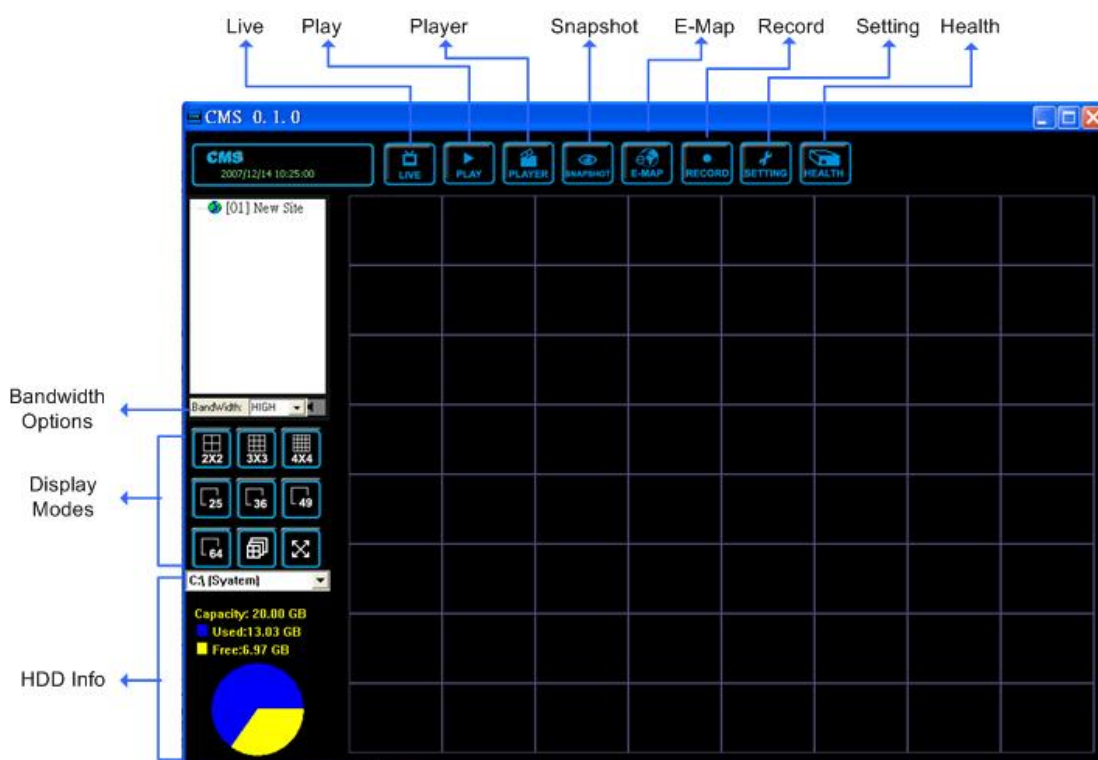


NOTE: If you entered the wrong username or password 3 times, the message below will be shown, and the CMS will be closed automatically after you click <OK>. Reopen the CMS to enter the correct username and password.



5. Buttons Available on the Main Window

After starting the CMS, the main window of the CMS will be shown as the figure below. There are several buttons positioned on the top and the left of the main window. The name of each button is indicated below.



The usage and function of each button will be briefly described as the followings.

Live

Click on this button to view the live video. The box on the top left corner shows the site which you are currently viewing. Note that after viewing recorded video, you need to click this button to switch back to the live mode.

PLAY

Click to view recorded video stored in the HDD of the connected DVR. Please refer to <Playback Recorded Video> section for more information about playing back the video.

PLAYER

Click to open the CMS Player. The CMS Player is a compact version of the standard DVR Player. Please refer to the Appendix A for more information.

SNAPSHOT

Click to save a snapshot of the current window(s). Refer to section <Take a Snapshot> for detailed information.

E-MAP

Click to open the E-MAP program. The E-Map is a program that allows the user to illustrate the positions of the cameras on a self selected image.

RECORD

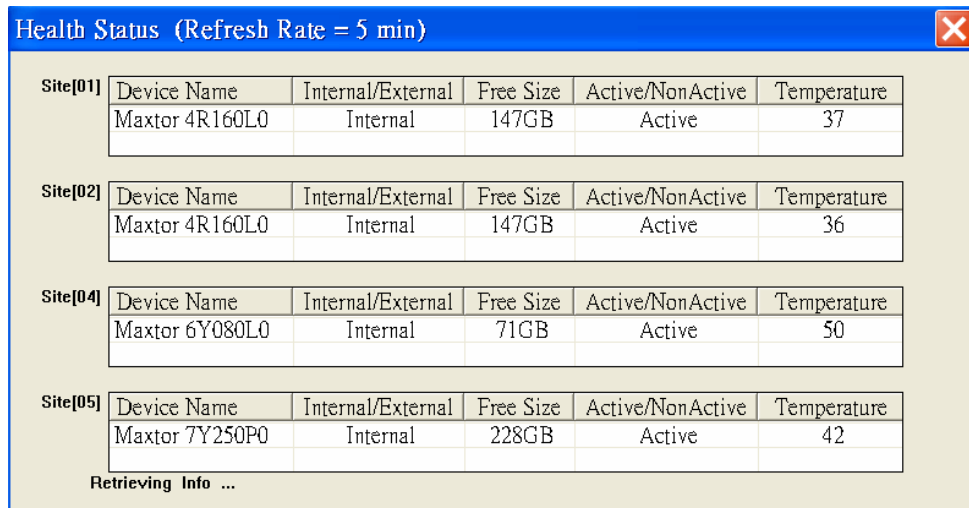
Click to schedule the recording time frame for the sites.

SETTING

Click to set up the configuration. Refer to section <Configure Your CMS> for detailed information.

HEALTH

Click to see the connection status and information of the connected DVR(s). The data will be updated every 5 minutes. The following figure is an example.



Health Status (Refresh Rate = 5 min)

Site	Device Name	Internal/External	Free Size	Active/NonActive	Temperature
Site[01]	Maxtor 4R160L0	Internal	147GB	Active	37
Site[02]	Maxtor 4R160L0	Internal	147GB	Active	36
Site[04]	Maxtor 6Y080L0	Internal	71GB	Active	50
Site[05]	Maxtor 7Y250P0	Internal	228GB	Active	42

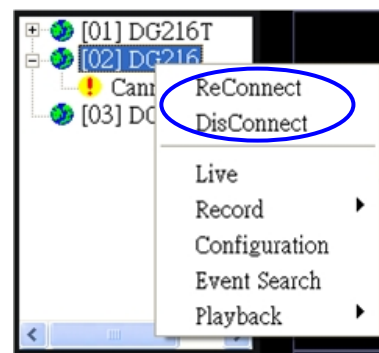
Retrieving Info ...



NOTE: If more than half of the connected devices are not DynaColor products, a warning message will be shown and the CMS will be closed automatically.

Site Tree

Displays the site(s) that you are currently viewing. If the connection to a certain camera is failed, there will not be image displayed on its assigned grid. Right click on the "site" and click <ReConnect> to try to establish the connection to the site. The <DisConnect> option allows the user to only disconnect a certain site. The user can also rename the camera directly by double clicking it. The new name will be shown on the upper left corner of the camera's assigned grid.



Bandwidth & Audio

Click to choose bandwidth option. Choose <High> when the internet speed is fast; and <Low> when the network is congested.

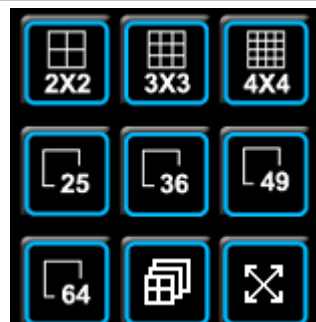
Next to the bandwidth option is the audio button. Click to turn on/off the audio.





NOTE: Turning ON/OFF the audio on CMS will not affect the audio setting of the connected DVR(s).

Display Modes

Click any of them to view the image in a multiple window mode. You can select from 4-window, 9-window, 16-window, 25-window, 36-window, 49-window, and 64-window modes. You can switch the viewing window by clicking the display mode several times. For instance, if you have chosen 4-window (2x2), the first screen you see will be channels 1 to 4. If you want to view channels 5 to 8, you can click the 2x2 icon again to view these channels.



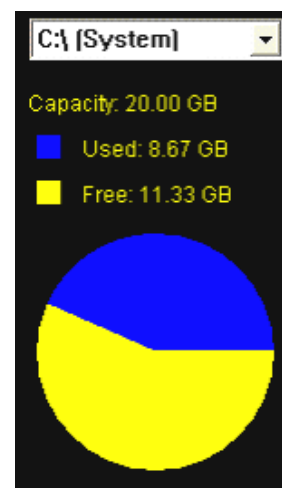
Click  to start the sequence. See <Sequence> section for more detailed information.

Click  to extend the current viewing grids to full screen. Click <Esc> to exit.

HDD Info

The pie chart on the bottom left displays the HDD information. This is especially useful when the user uses the CMS to record the video to the local computer.


Scroll down the menu and you can see all the HDD drives installed on your local computer, such as C drive, D drive...etc. The blue part of the pie chart indicates the used space, and the yellow part indicates the available space.

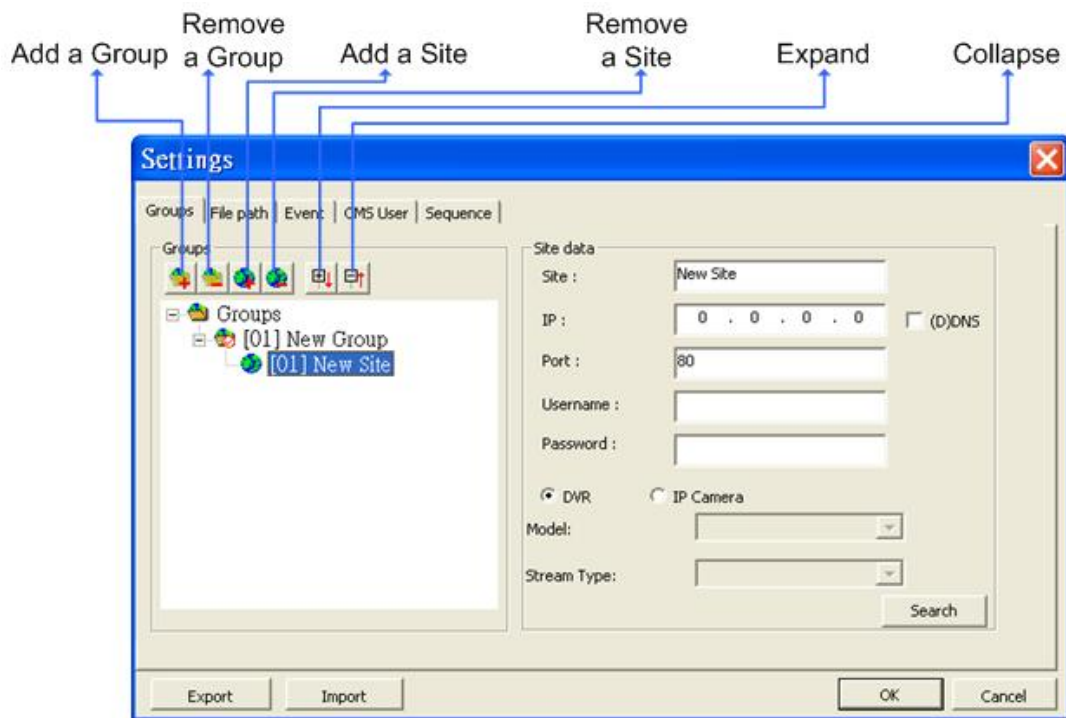


The information will be updated every 10 seconds. If file circular is enabled, the circulation will as well be updated every 10 seconds.

6. Configure Your CMS

The CMS supports up to 10 groups, and at most 64 sites can be added to each group. The following sections guide you to setup your CMS step by step.

Click the  button on the top of the **main window**, and you will see the figure below.

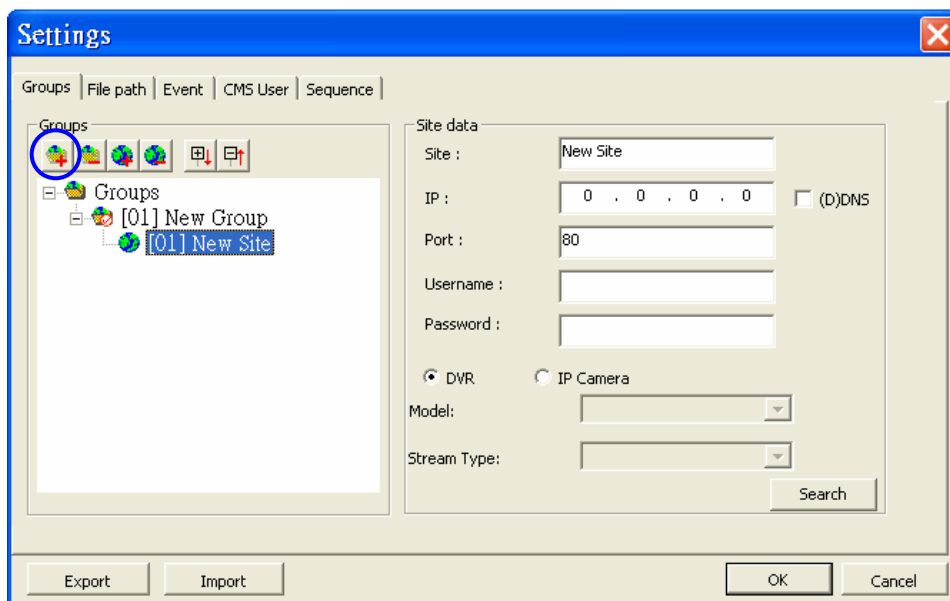


6.1 Setup Groups

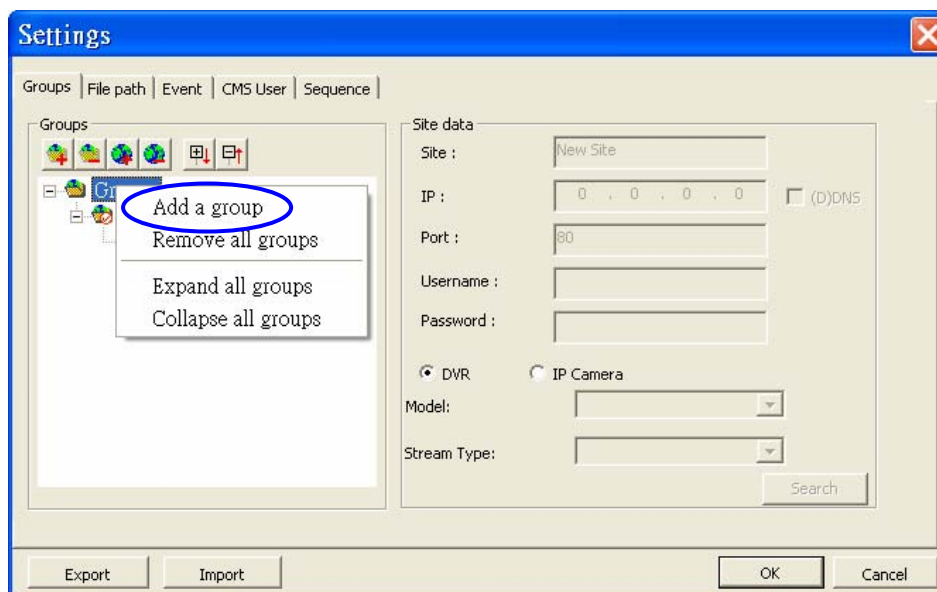
Up to 10 groups can be set in the CMS. This section guides the user to add or remove a group, and also shows the user how to set “start group”.

Add a group

Click  button to add a group. Double click on the group to rename it.



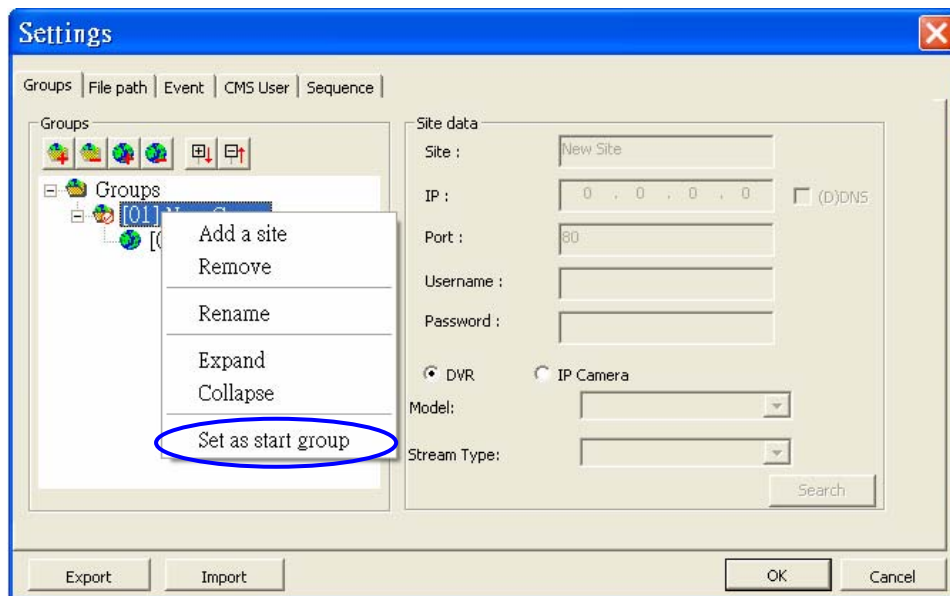
The other way to add a group is to right click on <Groups>, and select <Add a group>.



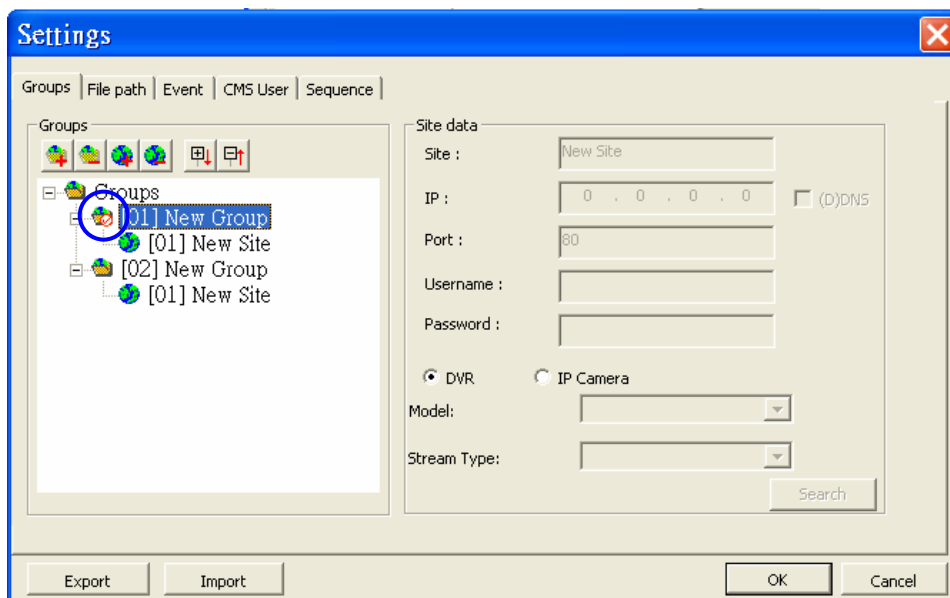
Set Start Group

“Start Group” is the group that will be connected after starting the CMS.

Right click on the group you want to set as “start group”, and select <Set as start group> from the pull-down menu.



NOTE: If a group is set as the “start group”, the icon will be checked as shown in the figure below.

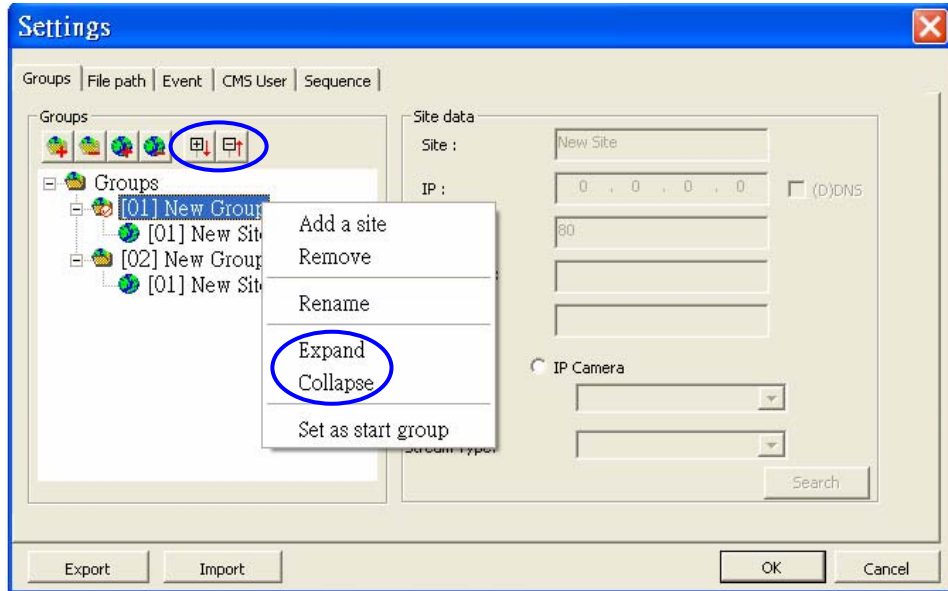


Expand/ Collapse a Group

There are two ways to expand or collapse a group. One way is to use the



buttons; the other way is to right click on the group and select <Expand> or <Collapse> from the pull-down menu.

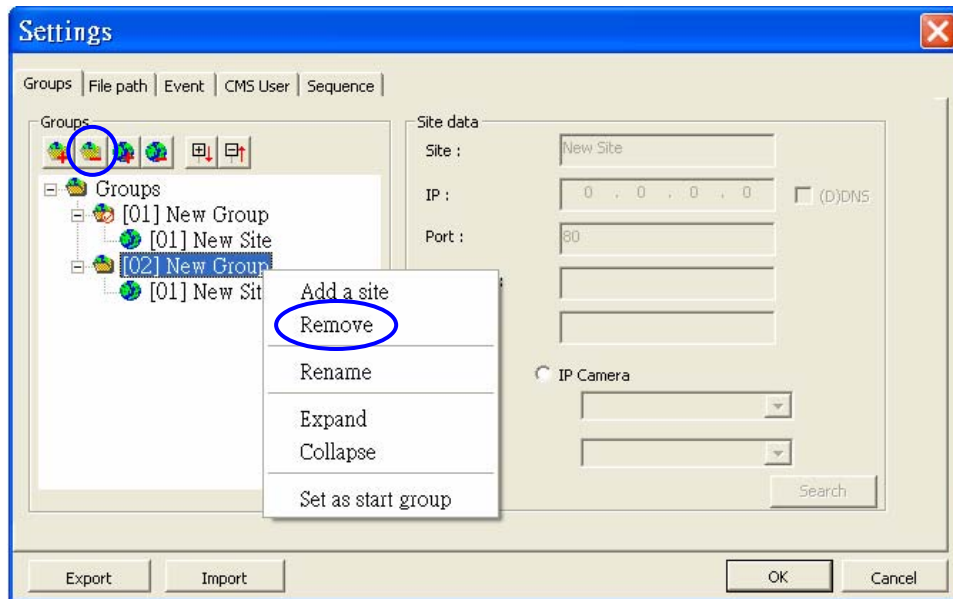


Remove a Group

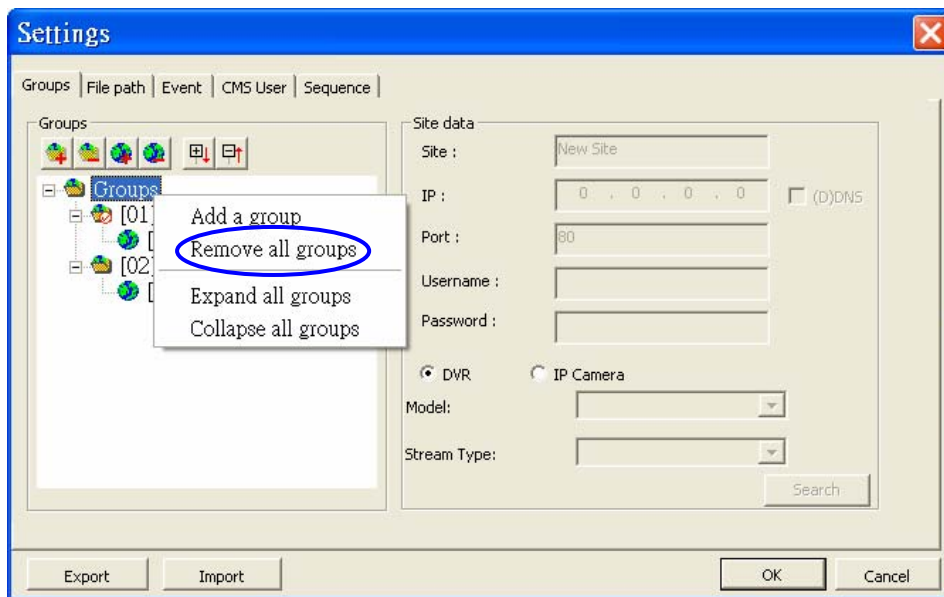
To remove a group, click on the group you wish to remove, and then click the



button directly to remove the group. The other way to remove a group is to choose <Remove> after right clicked the group.



If you wish to remove all groups, right click <Groups>, and select <Remove all groups>. Note that this will remove **all** groups.



6.2 Manage the Sites

This section guides you to setup the sites.

6.2.1 Add/Remove a Site

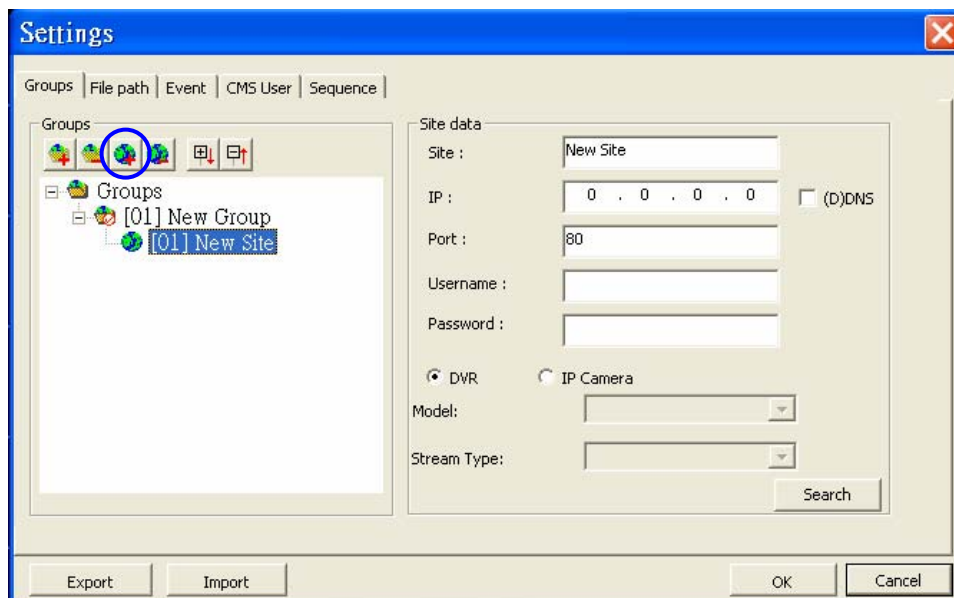
This section guides you to add or remove a site. Up to 64 sites can be added to each group.

Add a site

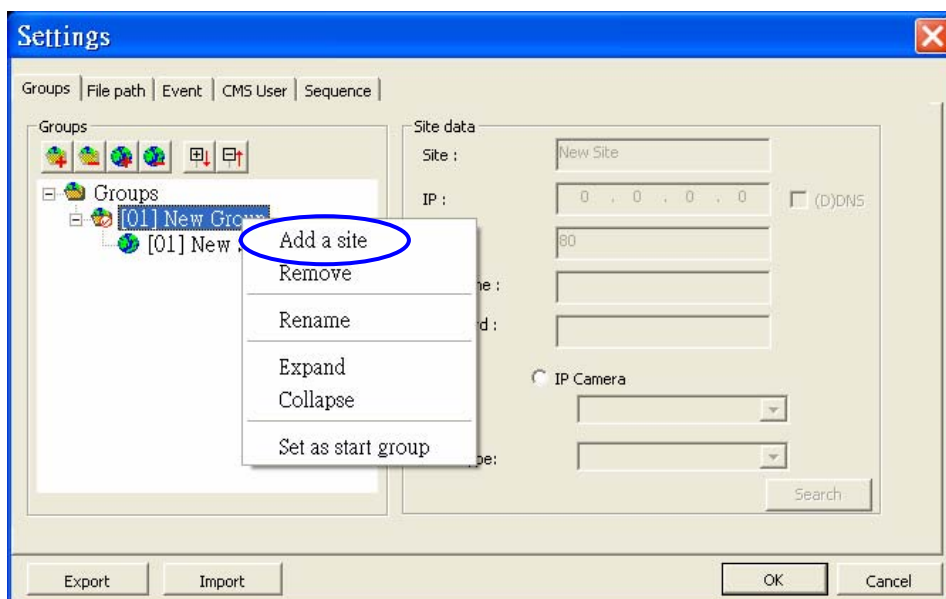
Choose a group to add a site. Click the  button to add a site to this group.

The next section will guide you to setup the site step by step.


Double click on the site to rename it.

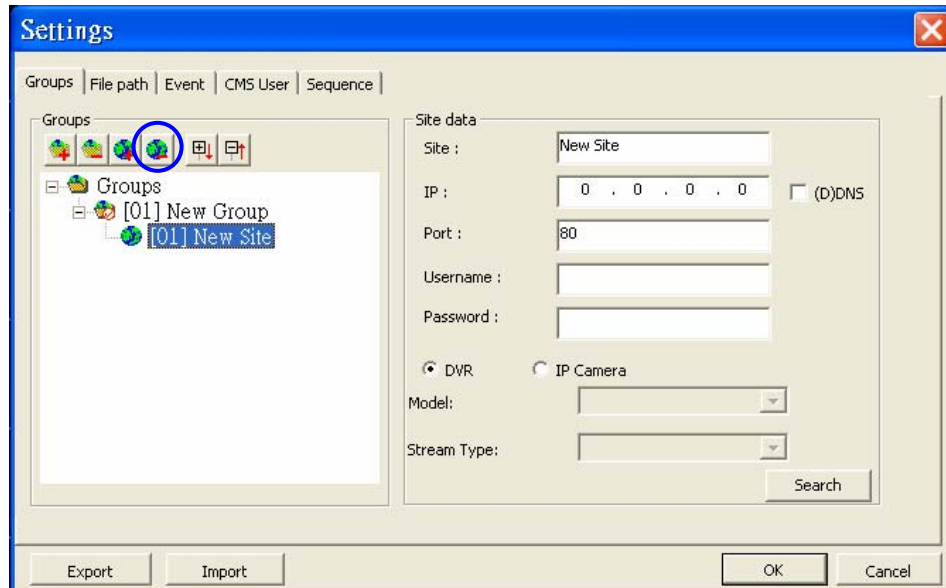


The other way to add a site to a group is to right click on the group, and select <Add a site>.

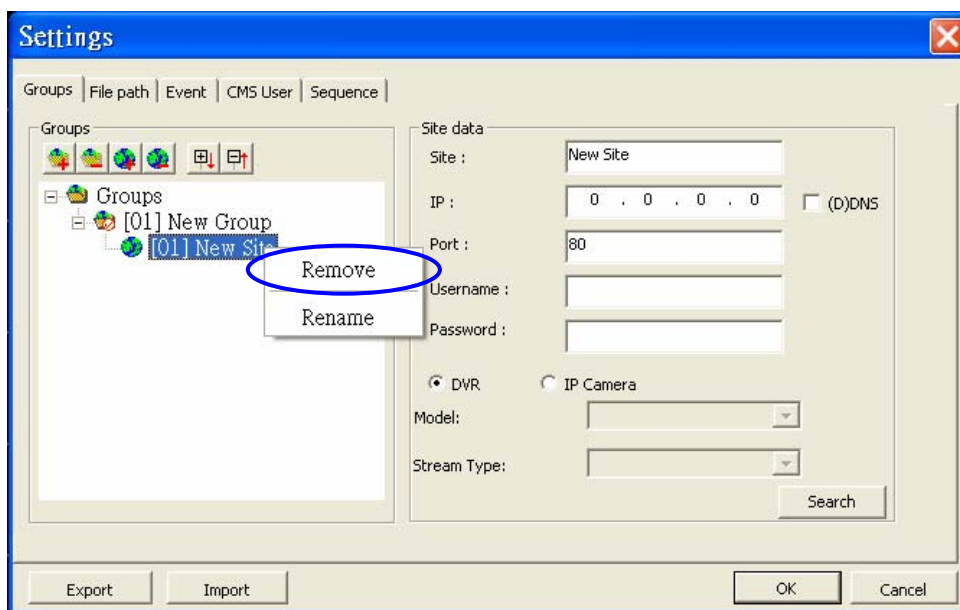


Remove a site

To remove a site, click on the site that you want to remove, and click the  button directly to remove the site.



The other way is to right click on the site, and select <Remove> from the pull-down menu.



The following section will guide you to setup the site that had been added.

6.2.2 Setup the Site

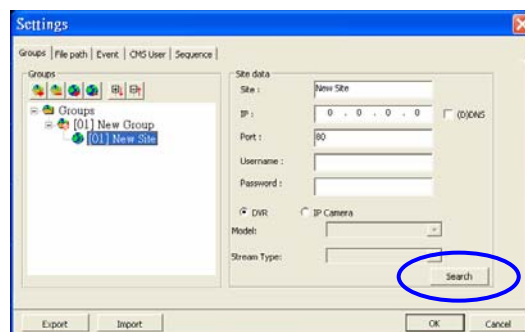
A site corresponds to a connected DVR, and the number of sites equals to the number of the connected DVRs.

There are two ways to setup a connected DVR as a “site” on the CMS.

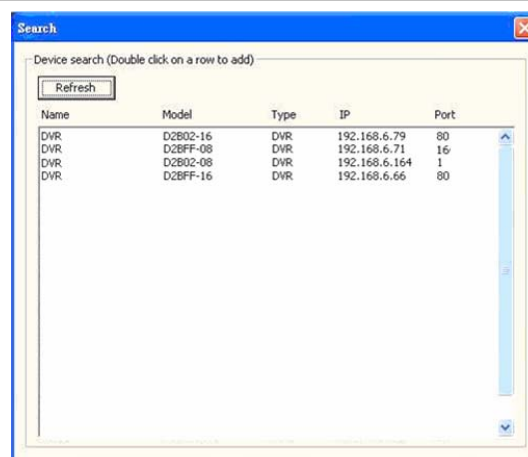
Method A: Set the Site Data Automatically

The CMS is able to search for the IP address of the connected DVR(s) that is connected to the LAN. The ports used for device search are 6666 and 6667. Please make sure that these two ports are not in-use nor blocked by firewall or virus scan software.

Step 1: If you have setup a LAN network, the CMS can search the LAN network for IP address of available connected DVR(s). Click the Search button (**on the bottom right**) to open the Search window.



Step 2: Click <Refresh> to find the IP address of connected DVR(s) available in your LAN network. Select from the list and **Double click** on the IP address to add it to a site.

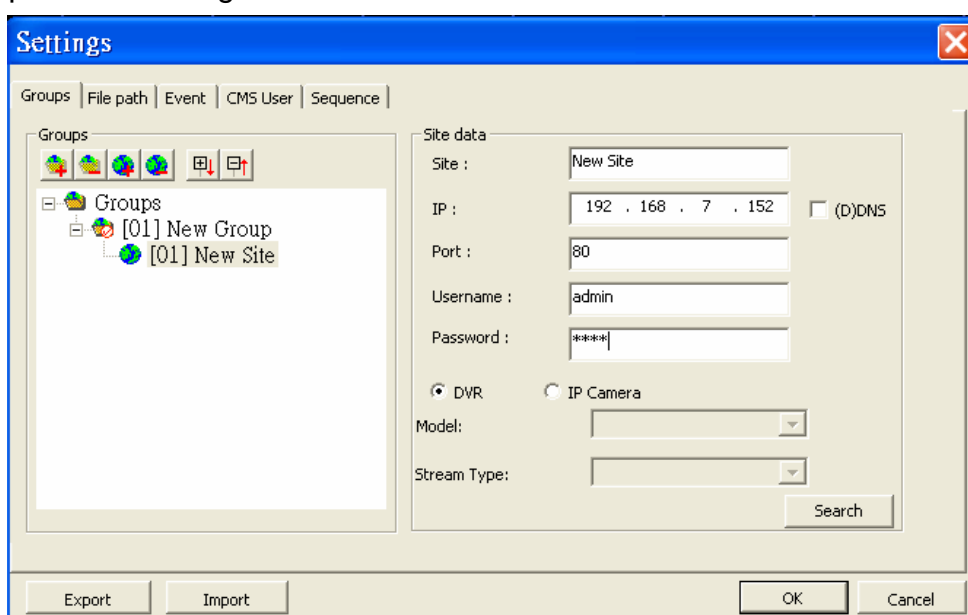


NOTE: The Search function can be used to search for addresses within the same LAN. For example, if your local computer uses an IP address of 192.168.1.5, and a connected DVR has an IP address of 192.168.1.7, the CMS will be able to find the IP address of the connected DVR. However, if there is another connected DVR connected to another LAN network such as 192.168.3.6, the CMS (whose IP is 192.168.1.5) will not be able to find the IP address.

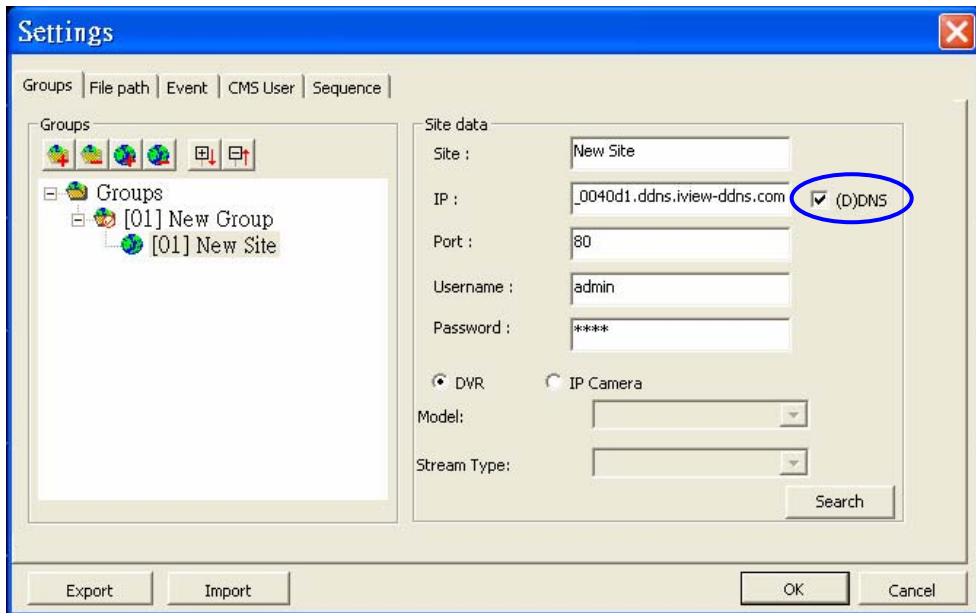
Method B: Set the Site Data Manually


If you know the detailed information (IP address, port, user name, and password) of the connected DVR, you can create a site manually.

Type in the Name, IP address, Port, Username, and Password. Click <OK> to complete the setting.

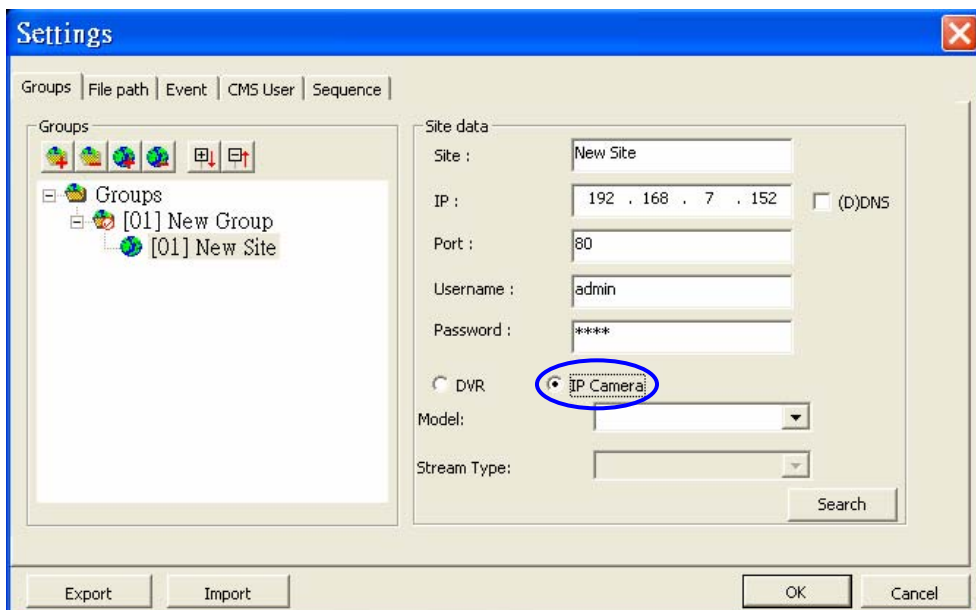


If you have the DDNS information of the connected DVR, you can choose to enter the DDNS data. Check the box <(D)DNS> circled below, and type in the DDNS data. Click <OK> to complete the setting. An example of the DDNS address: Example_0040d1.ddns.iview-ddns.com



 **NOTE:** Port number does not apply to DDNS entries. Therefore, if the <(D)DNS> box had been checked, you do not have to change the port number.

If you are adding an IP Camera to the CMS, you will need to select the <IP Camera> circled below. You will be able to choose the <Model> and <Stream Type> of your IP Camera. Next you have to enter the Name, IP address, Port, Username, and Password manually. Finally click <OK> to complete the setting.



IP Camera Support List

Brand/Model	Streaming Protocol	Video Stream Format	Audio Stream Format
DynaColor Video Server (D7521)	HTTP	MPEG-4/M-JPEG	MS-ADPCM 2-Way Audio
DynaColor MegaPixel IP Camera (nDH060)	RTP+RTSP	MPEG-4/M-JPEG	g.711 a-law, g.711 u-law 2-Way Audio
	HTTP	MJPEG	No Audio
AXIS 200 Series	RTP/RTSP	MPEG-4	Unsupported
VivoTek 7000 Series	RTP/RTSP	MPEG-4	Unsupported



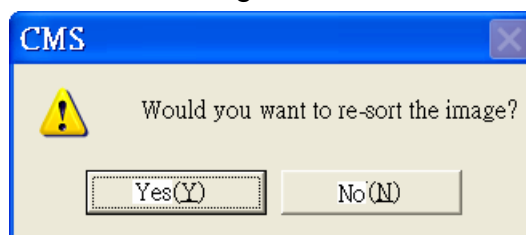
NOTE: Each group can only connect to at most 16 IP cameras.



NOTE: When the user clicked on <OK> to save the changes of the following settings of the start group, a window will be prompted for the user to choose whether or not to re-sort the grids.

- The IP is changed.
- The domain name is changed.
- The port is changed.
- A site is added.
- A site is removed.

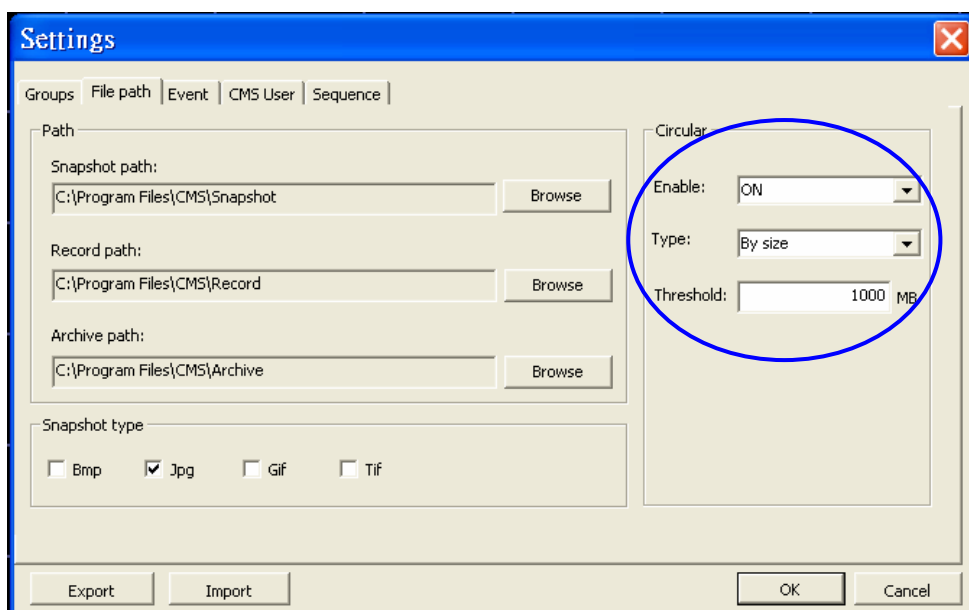
Click on <Yes> to re-sort the grids, or click on <No> to exit.



6.3 Setup the File Path

The file path menu enables you to change stored destination of snapshot, recorded video, and archive files. It is recommended to use the default folders.

The <Circular> function is used to adjust the HDD space usage of the CMS. For example, when the threshold is set to 1GB, and there are 20GB free disk space remaining in the HDD. CMS can only access the HDD no more than 19GB. Whenever the free disk size is smaller than threshold, CMS will start to overwrite the earliest recoded data.



Snapshot type

The CMS has a snapshot function, and you can set the file type for snapshot here. Note that if you checked more than one type, take 2 types for example, then you will find each snapshot is saved to 2 types of files. They are the same image, but in different formats. For instance, if you have selected Bmp & Tif and taken the snapshot, you will get two types of image files of the same snapshot image.

6.4 Alert

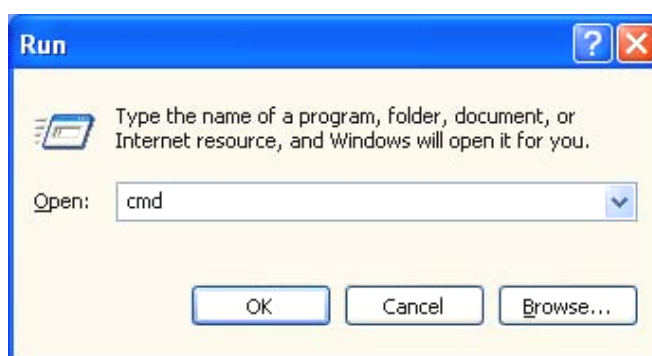
The alert function enables the connected DVR(s) to send alert signals to the CMS within the network. This section describes how to setup the alert. Follow the steps below to setup the alert.

Step 1: Find the IP address of the local computer.

Go to **Start** menu, select **Run**.



Type in **cmd** and click OK.



Type in **ipconfig** to get the IP Address of the local computer. Write down the IP address on a piece of paper for later use.

```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Owner>ipconfig
Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .               : 192.168.7.122
    Subnet Mask . . . . .             : 255.255.255.0
    Default Gateway . . . . .         : 192.168.7.254

C:\Documents and Settings\Owner>_
```

Step 2: Setup the <Alert Notification Setup> on the connected DVR(s).

The <Alert Notification Setup> allows the user to send alert notifications to the CMS program which had been installed to your computer.


Alert Notification Setup	
1. Alert Configuration Set	1
2. Alert Notification	OFF
3. Alert IP	192.168.7.122
4. Alert Port	9999
5. Alive Interval	120sec

- Alert Configuration Set
 <Alert Configuration Set> provides 3 combinations of Alert Notification, IP, and Port. The user can match the connected DVR to at most 3 different CMS servers.

- Alert Notification
 4 options are included in this item; <OFF>, <Event>, <Alive>, and <Both>.
 - <**OFF**>: The Alert Notification is turned off.
 - <**Event**>: When the alarm is triggered, the DVR will send an alert message to the CMS.
 - <**Alive**>: The DVR will send an alive message to the CMS every *N* second just to show you that the connection between the DVR and CMS is in effect. The time interval *N* can be adjusted in <Alive Interval>.
 - <**Both**>: This enables the DVR to send both Event and Alive alert messages to the CMS.


- Alert IP
 The Alert IP must match the IP address of the local computer. In this example, the IP address of the local computer is 192.168.7.122.

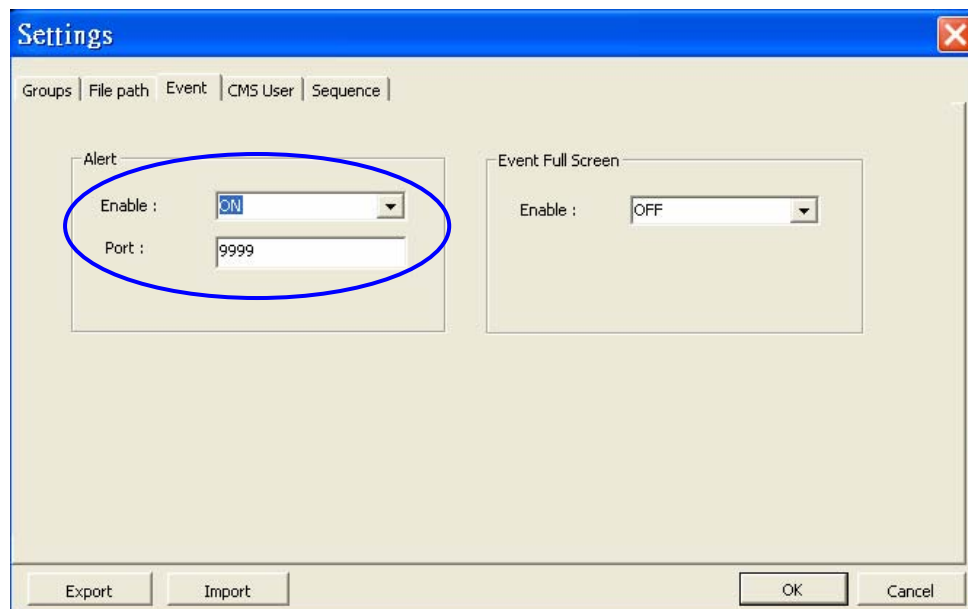
- Alert Port
 The Alert Port is the port used for sending and receiving alert signals. Choose any port that is not restricted in your network. The ports for both connected DVR and the CMS Alert **must be the same**. In this example, the port is set to 9999.


 **NOTE:** If 2 configuration sets are corresponding to 2 different CMS servers, each CMS server must have its own unique port number.


- Alive Interval
 Time interval (1 to 255 sec) between each alive message can be set here.

Step 3: Setup the Alert of the CMS.

Click on  positioned on the top of the CMS main window and go to Event tab to setup the port. Port 9999 is used in this example. Select ON to enable the alert function and click OK. <Event Full Screen> is used to display full screen of the alerted channel. Select <ON> to turn on this function, or <OFF> to turn it off.



 **NOTE:** If the user reconnect or disconnect the sites, the list of the event full screen will be cleared.

 **NOTE:** Once the list of the event full screen finished playing, the window will return to former viewing status


Step 4: Alert Action

The connected DVR sends 4 types of alert message (State) to the CMS: Alive, Alarm, Motion, and Video Loss. Alive messages are sent when you select <Alive> or <Both> notification option in the connected DVR. Alarm, Motion, and Video Loss messages are sent when you select <Event> or <Both> notification option in the connected DVR.


No.	DATE/TIME(Local)	DATE/TIME(DVR)	SITE NAME	UNIT NAME	CH	STATE	IP
27	[2007/10/02 - PM03:25:59]	2007/10/03 AM04:53:23	DVR64	DVR		Alive	192.168.6.53:80
28	[2007/10/02 - PM03:26:02]	2007/10/03 AM04:53:26	DVR64	DVR		Alive	192.168.6.53:80
29	[2007/10/02 - PM03:26:05]	2007/10/03 AM04:53:29	DVR64	DVR		Alive	192.168.6.53:80
30	[2007/10/02 - PM03:26:08]	2007/10/03 AM04:53:32	DVR64	DVR		Alive	192.168.6.53:80
31	[2007/10/02 - PM03:26:11]	2007/10/03 AM04:53:35	DVR64	DVR		Alive	192.168.6.53:80
32	[2007/10/02 - PM03:26:14]	2007/10/03 AM04:53:38	DVR64	DVR		Alive	192.168.6.53:80
33	[2007/10/02 - PM03:26:17]	2007/10/03 AM04:53:41	DVR64	DVR		Alive	192.168.6.53:80
34	[2007/10/02 - PM03:26:20]	2007/10/03 AM04:53:44	DVR64	DVR		Alive	192.168.6.53:80
35	[2007/10/02 - PM03:26:23]	2007/10/03 AM04:53:47	DVR64	DVR		Alive	192.168.6.53:80
36	[2007/10/02 - PM03:26:26]	2007/10/03 AM04:53:50	DVR64	DVR		Alive	192.168.6.53:80
37	[2007/10/02 - PM03:26:29]	2007/10/03 AM04:53:53	DVR64	DVR		Alive	192.168.6.53:80
38	[2007/10/02 - PM03:26:32]	2007/10/03 AM04:53:56	DVR64	DVR		Alive	192.168.6.53:80
39	[2007/10/02 - PM03:26:35]	2007/10/03 AM04:53:59	DVR64	DVR		Alive	192.168.6.53:80
40	[2007/10/02 - PM03:26:38]	2007/10/03 AM04:54:02	DVR64	DVR		Alive	192.168.6.53:80
41	[2007/10/02 - PM03:26:41]	2007/10/03 AM04:54:05	DVR64	DVR		Alive	192.168.6.53:80
42	[2007/10/02 - PM03:26:45]	2007/10/03 AM04:54:08	DVR64	DVR		Alive	192.168.6.53:80
43	[2007/10/02 - PM03:26:48]	2007/10/03 AM04:54:11	DVR64	DVR		Alive	192.168.6.53:80
44	[2007/10/02 - PM03:26:51]	2007/10/03 AM04:54:14	DVR64	DVR		Alive	192.168.6.53:80
45	[2007/10/02 - PM03:26:54]	2007/10/03 AM04:54:17	DVR64	DVR		Alive	192.168.6.53:80
46	[2007/10/02 - PM03:26:57]	2007/10/03 AM04:54:20	DVR64	DVR		Alive	192.168.6.53:80
47	[2007/10/02 - PM03:27:00]	2007/10/03 AM04:54:23	DVR64	DVR		Alive	192.168.6.53:80
48	[2007/10/02 - PM03:27:03]	2007/10/03 AM04:54:26	DVR64	DVR		Alive	192.168.6.53:80
49	[2007/10/02 - PM03:27:03]	2007/10/03 AM04:54:26	DVR64	DVR	2	Motion	192.168.6.53:80
50	[2007/10/02 - PM03:27:03]	2007/10/03 AM04:54:26	DVR64	DVR	3	Motion	192.168.6.53:80
51	[2007/10/02 - PM03:27:03]	2007/10/03 AM04:54:26	DVR64	DVR	4	Motion	192.168.6.53:80



NOTE: The maximum number of items can be kept on the alert list is 1000. When the list reached 1000 items, the earliest alert messages will be deleted while the new ones are being saved.

When the alert is triggered while the alert function is turned on, the  icon next to the system clock will be flashing to indicate that an alert is being triggered.



If you open the CMS and double click on Event Messages (Alarm, Motion Video Loss) without clicking  to connect to the connected DVR, a message box will be displayed to remind you to establish the connection first.



Suppose you have setup the Alert function for a site **in Group 1**, but you are currently connected to Group 2 or 3. When you double click on Event Messages (Alarm, Motion, or Video Loss), a message box will be displayed to inform you that you are currently **NOT connected to the group** which has a site sending the alert signals to the CMS.



When you are connected to group 1 and you have set the Alert function for group 1 correctly, double click on the Event Messages (Alarm, Motion, or Video Loss) and the CMS will play the full screen video of the alerted channel.



NOTE: The Alert function works **ONLY** within LAN network. (Please refer to the note of the Search function)



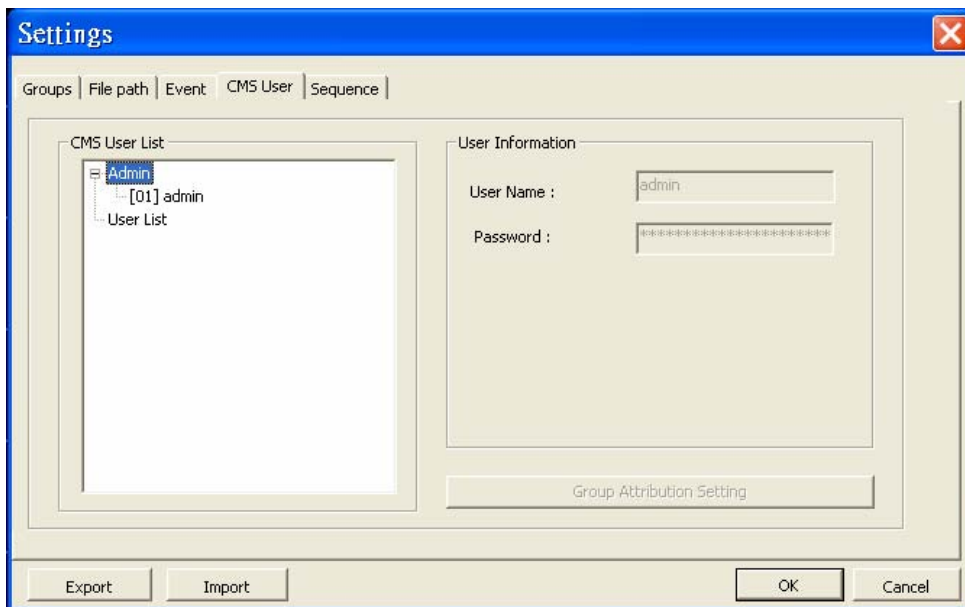
NOTE: If the alert event has not yet been added to the database of the DVR, a warning message will be shown to notify the user.


6.5 CMS User

The <CMS User> is for the management of user accounts in the CMS. You can set users' account information and privileges. The default username and password are:

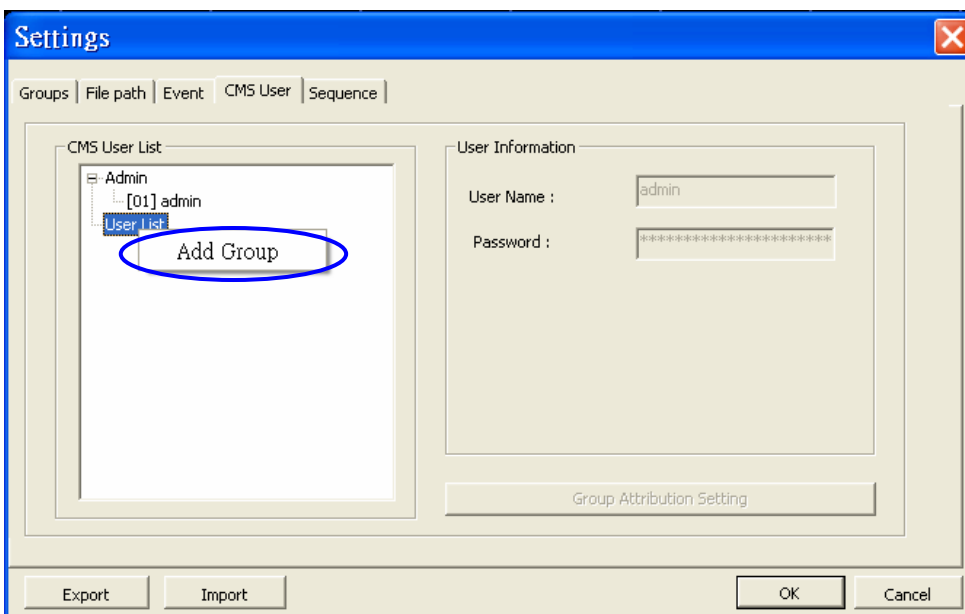
Username: admin

Password: 1234

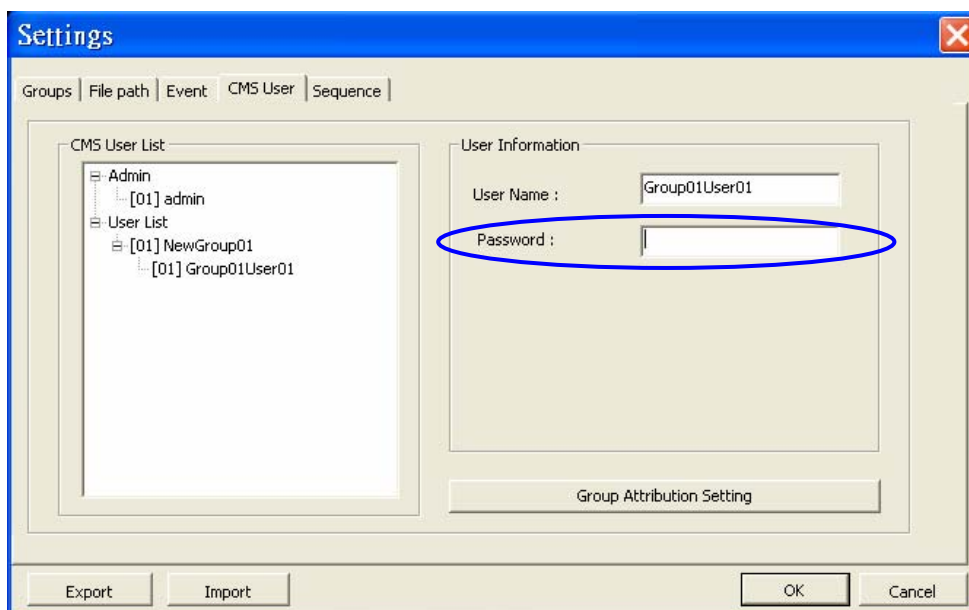


 **NOTE:** Only users under the <Admin> group have the privilege to change the settings in <CMS User>.

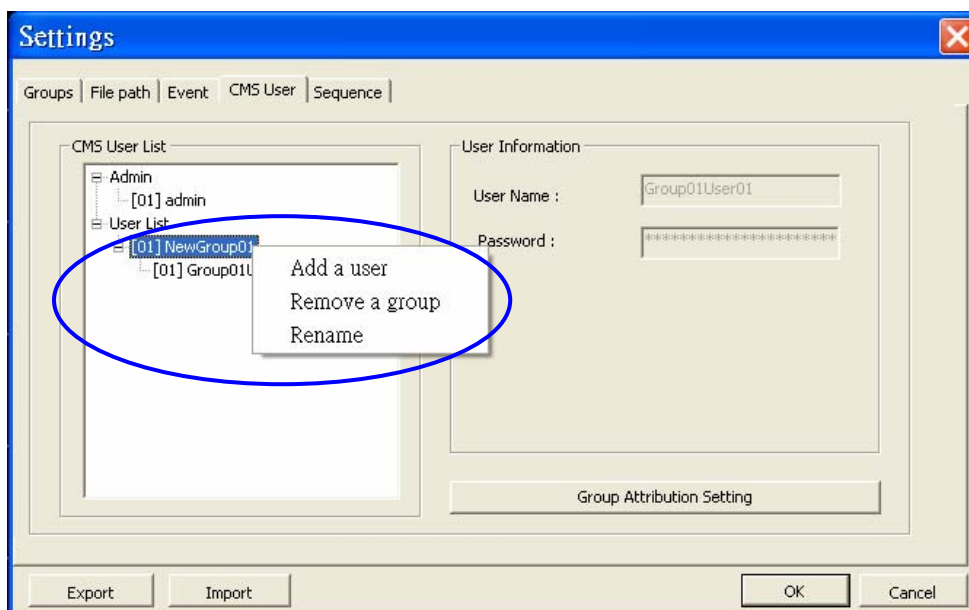
To add a user, you must first add a group. Right click on <User List> and select <Add Group> from the pull-down menu.



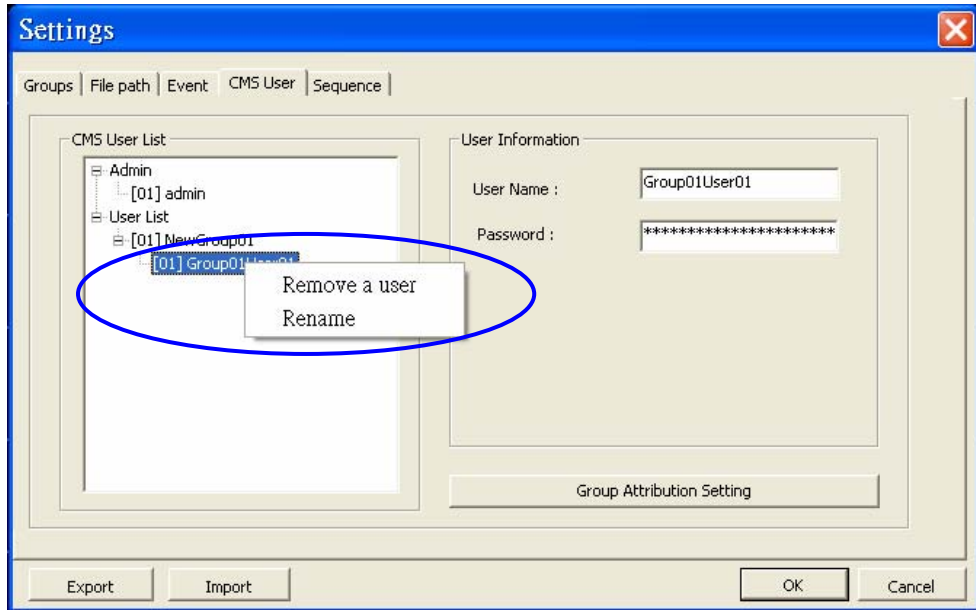
After the group is added, the first user account of the group will also be created. You **MUST** set the password for this account before you can go to the next step.



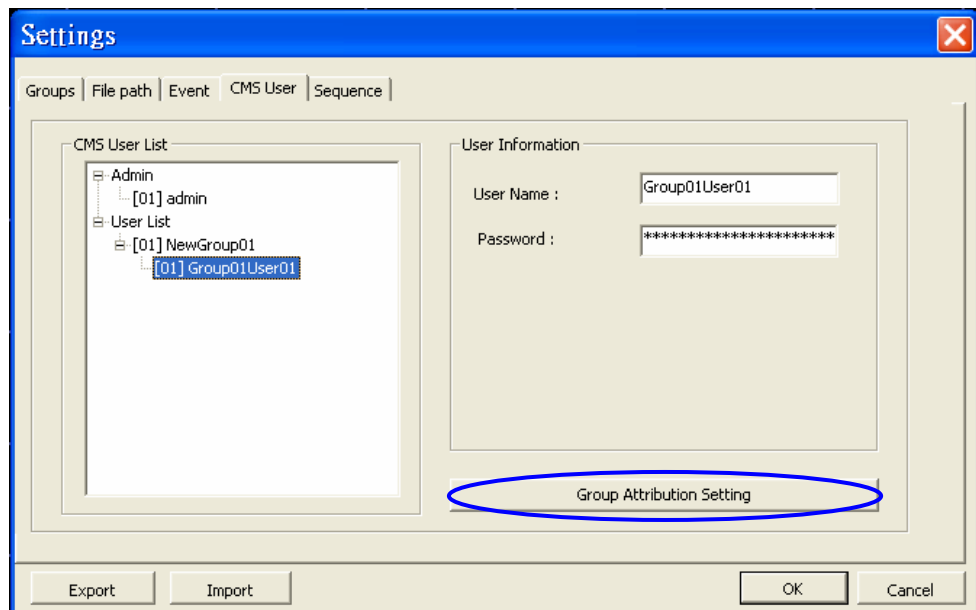
Right click on <NewGroup01> to add a user, remove a group, or rename the group.



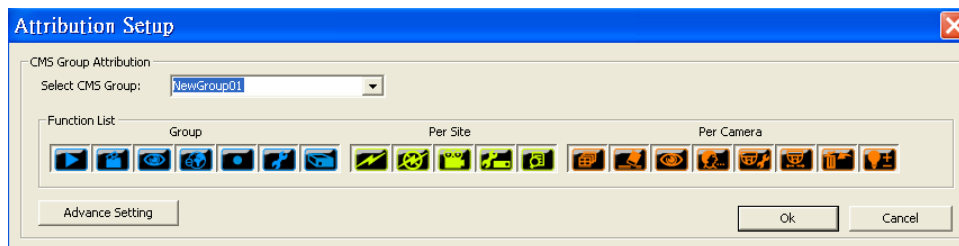
Right Click on <Group01User01> to remove a user or rename the username.



The <Group Attribution Setting> is for setting up the privileges of the selected user. You can give each user account different privileges by configuring this function.

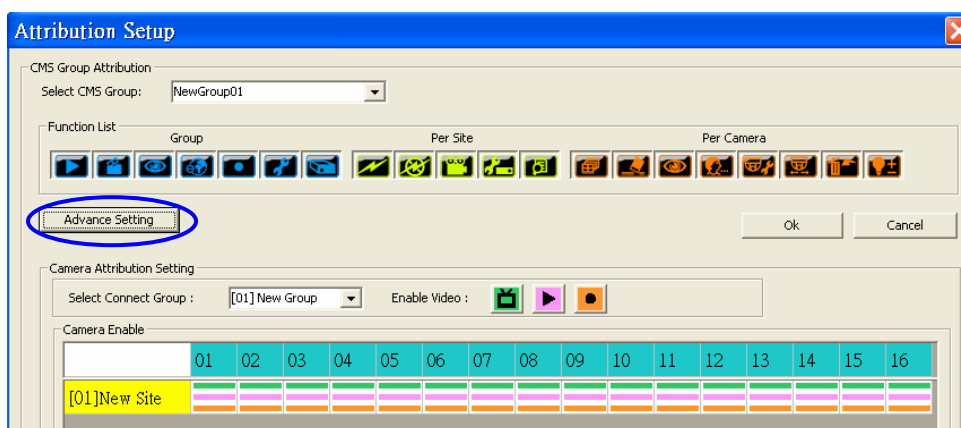


After entering the <Group Attribution Setting>, the following diagram will be shown. Select a user account in <Select CMS Group>, and you can click on the buttons to enable or disable its privileges.



- ◆ Blue buttons are CMS menu controls including: Playback, Player, Snapshot, EMAP, Schedule Record, Setting, and Health Status.
- ◆ Green buttons are site controls including: ReConnect, DisConnect, Record, Configuration, and Event.
- ◆ Orange buttons are camera controls including: Sequence, Rename, Snapshot, Talk, Dome Setting, Dome Control, Remove, and Image Adjustment.

Each camera can be set to enable/disable Live, Play, or Record function individually after clicked on <Advance Setting>. Refer to the following figure for details.



NOTE: The preset is 16 cameras for all sites. The real number of cameras per each site will not be detected.

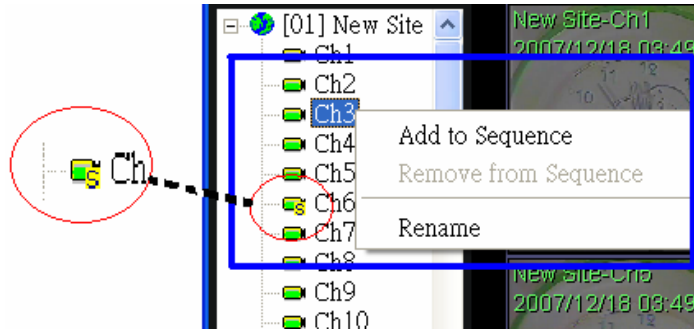



NOTE: These settings will affect the whole operation of the CMS. Please be very careful while configuring the settings.

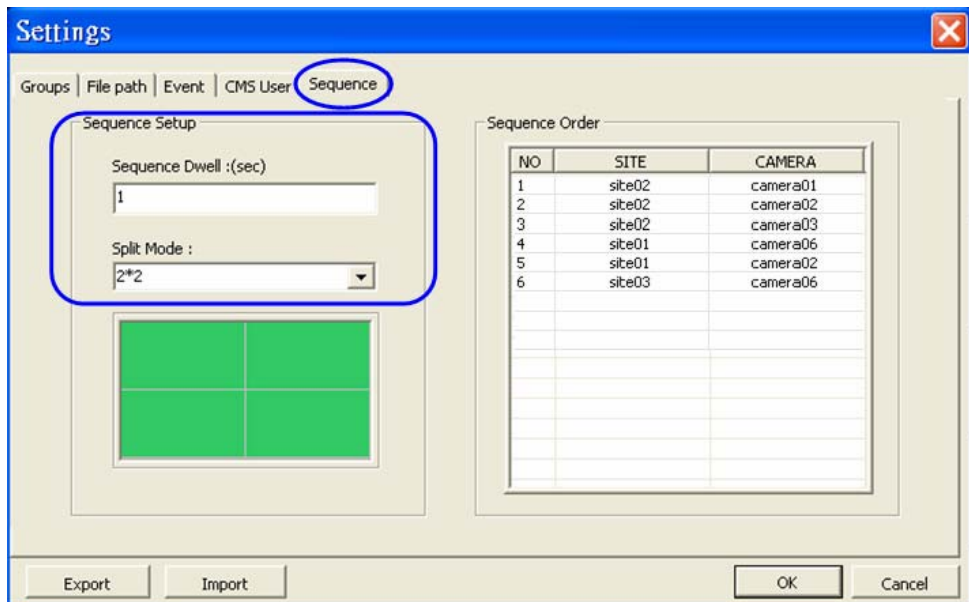
Next time when you login, you can choose to enter the CMS either as the admin or the user.




6.6 Sequence

This function is used to set the displaying sequence. Before starting the sequence, you need to add the channels to the sequence order. Right click on the channel and select <Add to Sequence> to add, or <Remove from Sequence> to remove. Note that when the channel is added to the sequence, a capital "S" will be displayed as shown in the figure below.



After the channels are added to the sequence, click on  and choose <Sequence> to setup the sequence. Under the <Sequence Setup> option, you can setup the dwell time (1 to 120 seconds), and split mode (2*2, 3*3, 4*4, or 5*5). <Sequence Order> lists the channels that have been added to the list. Click <OK> to save the settings.



To run the sequence that you have already set, click on  to start the sequence; and click on  or  to exit the sequence mode.



NOTE: After the sequence is started, you can still change the split mode by clicking on the display mode icons for 2*2, 3*3, 4*4 or 5*5. However, the starting split mode set in <Sequence> will remain the same. Note that icons for 6*6, 7*7 or 8*8 will not be accessible because they are not allowed to be shown in sequence mode.




NOTE: If you have enabled the <Event Full Screen>, and an event is triggered while running the sequence, the CMS will display event full screen. The sequence will not start running again until event full screen is ended.

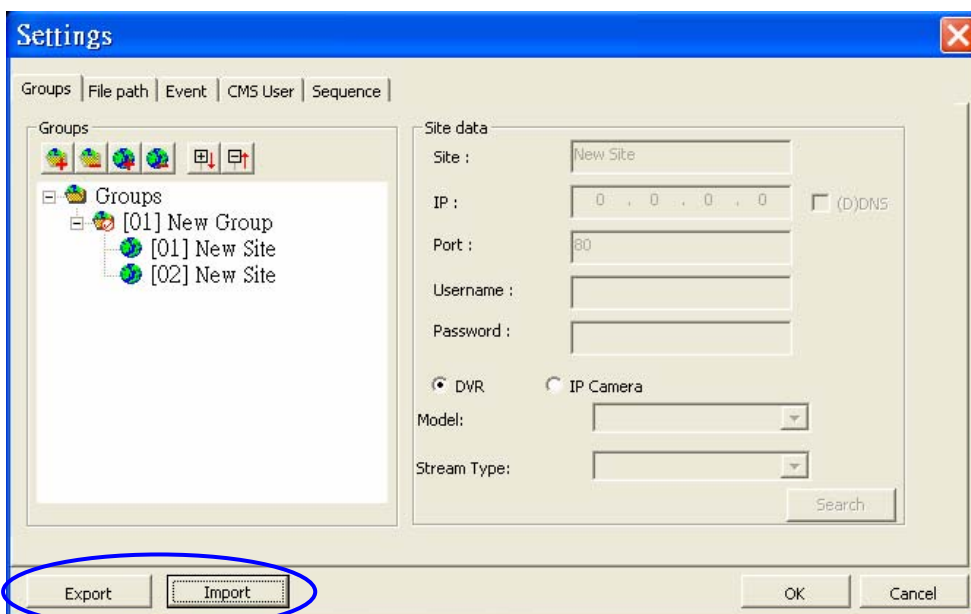
6.7 Export or Import Settings

The export/import function provides the user the option to backup the settings as needed.

To export the configuration, click <Export>, and select a directory to save the *.zip file.

To import a previous configuration, click <Import> and find the *.zip file that was previously saved.

 **NOTE:** After restarting the CMS, the configuration will be changed back to your imported setting.



7. Basic Operations

There can be at most **4** CMS programs opened simultaneously. If the local computer is connected to more than one monitor, for example 4, then the user can open 4 CMS programs and they can be shown at the same time on the 4 monitors respectively. Note that the monitors have to be set to the same resolution.

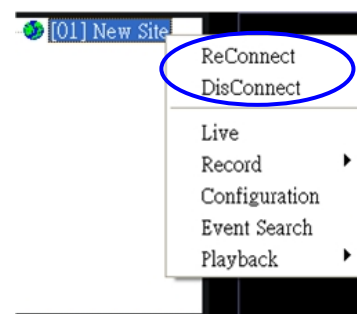
The following sections show you the basic operation of the CMS.

7.1 View Live Image / Assign Camera

The user can view live video or connect to the connected DVR using the live

button. Click on the  button to see the live view.

If the connection between the CMS and the connected DVR has been disconnected, then you can reconnect it by right clicking on the **Site**, and select <ReConnect> from the pull-down menu. You can also disconnect certain sites by selecting <DisConnect> from the pull-down menu.



The CMS will automatically reconnect failed connection under the following circumstances.

- A.** When the CMS starts to connect to the sites, it will create a log for connection results. For those connections that failed at first attempt AND satisfied either one of the following constrains will be placed under reconnect list.
 1. IP address has been specified.
 2. The result is not due to lack of authority.
 3. The result does not match the following: Channel Full, Admin Full, or Site full.
- B.** If the setting of an IP camera was changed and caused the IP camera to reboot, the connection between the CMS and the IP camera will be disconnected. That means no image will be transferred into the CMS.

The CMS will attempt to reconnect the failed connections described above in every 7 minutes.

The CMS enables the user to assign any channel from the list to any grid of the CMS main window.


To assign single channel to certain window

Step 1: Click and hold the channel you want.

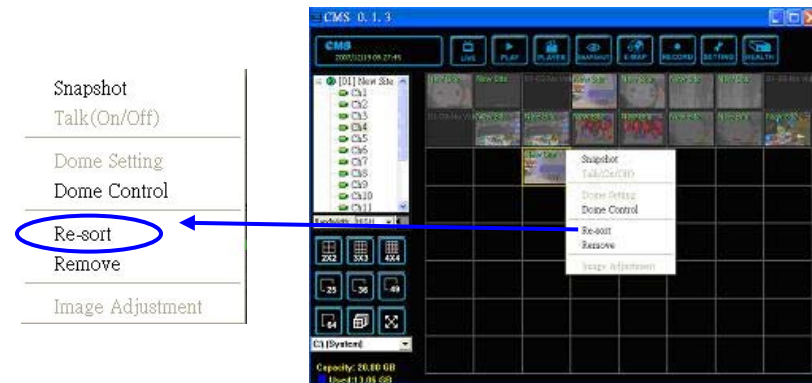



Step 2: Drag and drop it onto the window that you want to assign in.



 **NOTE:** This function will not be accessible in sequence mode.

Right click on any channel and select <Re-sort> to go back to the original window arrangement.



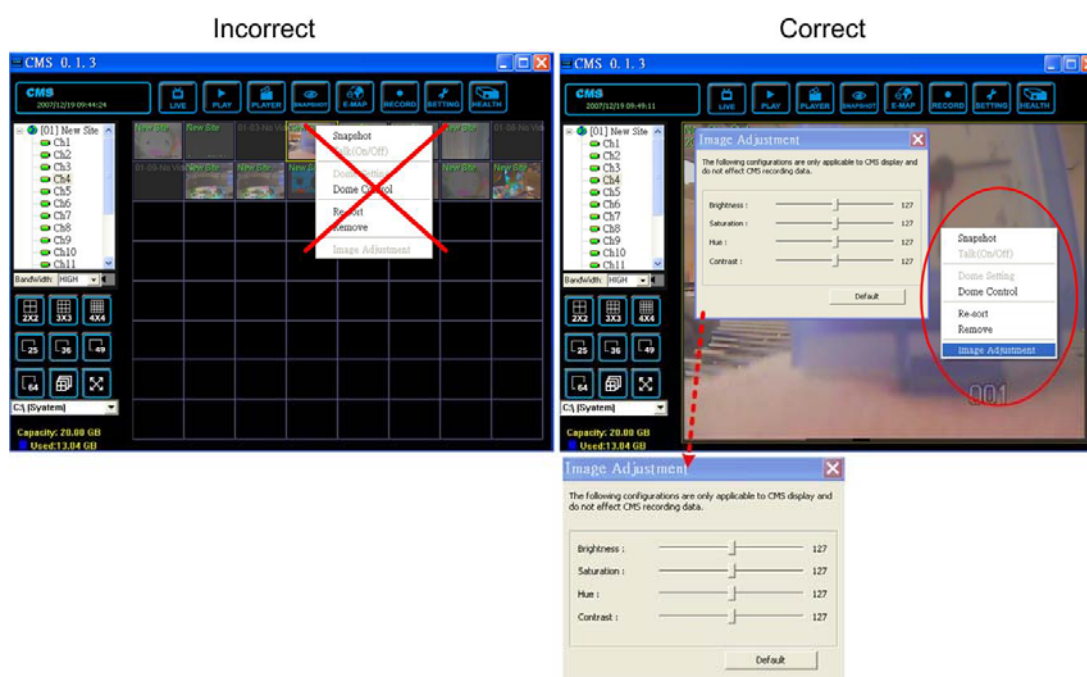
 **NOTE:** The camera title and time will automatically be displayed on the top left of each grid if the frame has enough length to fit.

7.2 Adjust the Image

The image can be adjusted in the CMS. Double click on a channel, and right click on it. Select <Image Adjustment> from the pull-down menu, and the image adjustment window will be displayed. You can change the brightness, saturation, hue, and contrast of the channel.




NOTE: You cannot adjust the image before enlarging the channel to fit the window. Refer to the following for correct and incorrect examples.

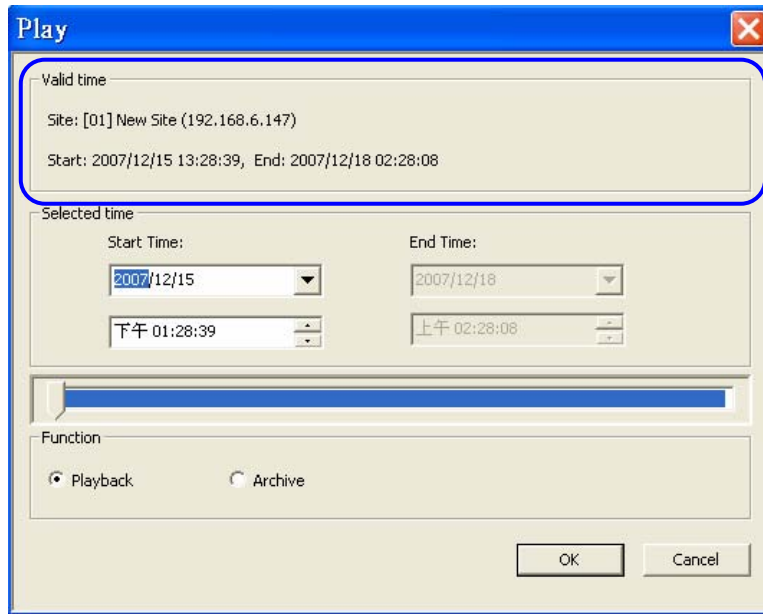


NOTE: The <Image Adjustment> function has no effect on the recorded video. Whatever changes made to the <Image Adjustment> will not be applied to the recorded video.

7.3 Playback Recorded Video

This function allows the CMS user to retrieve and play videos stored in the connected DVR. Click on  button, the figure below will be displayed.

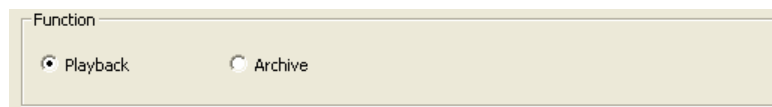
<Valid Time> indicates that the connected DVR starts recording from a certain period of time and ends at a certain period of time.



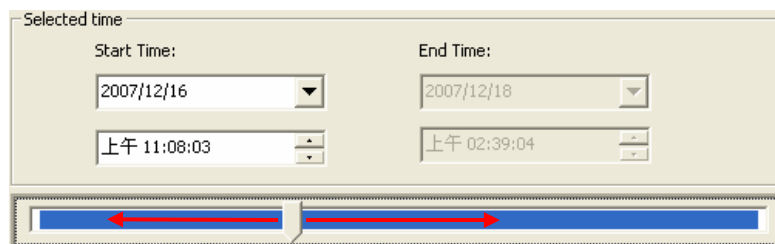
To playback the video stored in HDD of the connected DVR

To play the video stored in the connected DVR, please follow these steps.

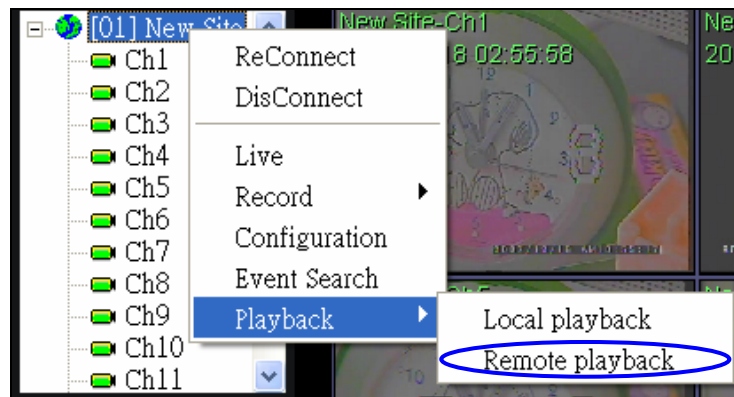
Step 1: To play the recorded video from the connected DVR, click <Playback>.



Step 2: Specify the starting time that you want to playback by setting the <Selected time> or by moving the arrow to the left (backward) or to the right (forward), and click <OK> to play the video.



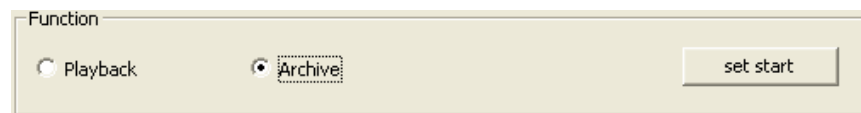
The other way to playback video is to right click on the site and select <Playback> → <Remote Playback> from the pull-down menu.



To save the *.drv files to your local computer

To save the video to the local computer, please follow these steps.

Step 1: If you want to save the *.drv files to the local PC, click <Archive>.




Step 2: Specify the Start Time (<Set start>) and End Time (<Set end>) and click <OK> to save the DRV file to your designated archive path. (The default archive path is "C:\Program Files\CMS\Archive")

Step 3: After the user click <OK>, the CMS will play the archived playback. Close the <Archive> window to exit.



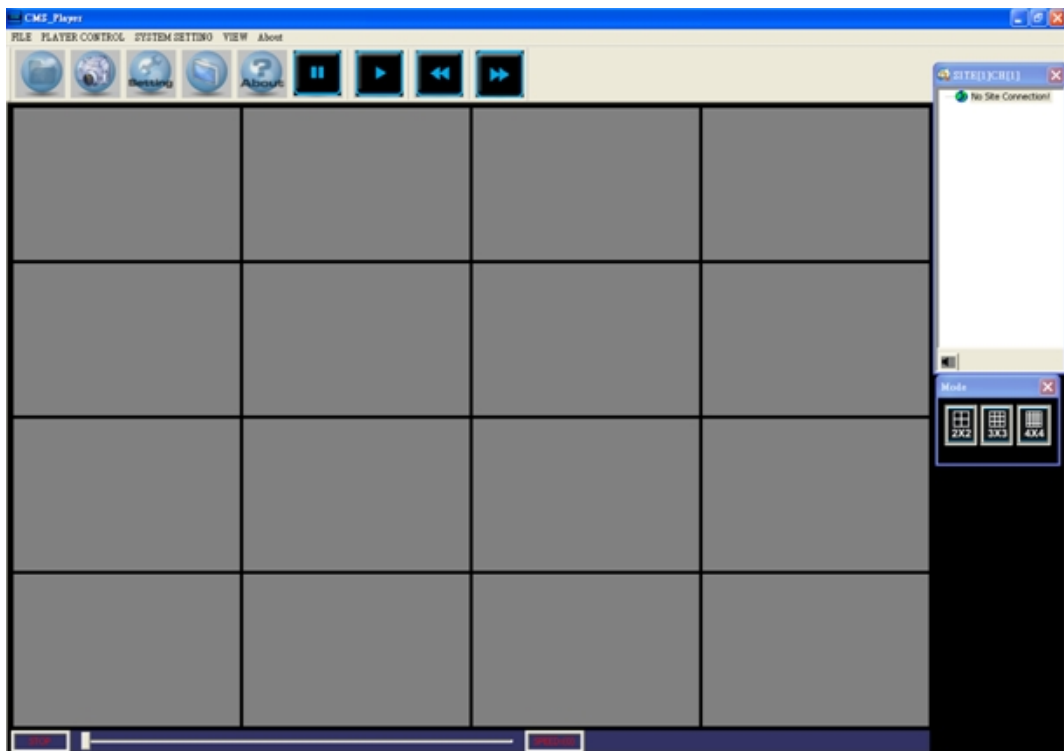
To playback video stored in the HDD of local computer

There are two ways to playback the videos stored in the local computer. Note that this is for playing videos that have already been saved to the local computer.

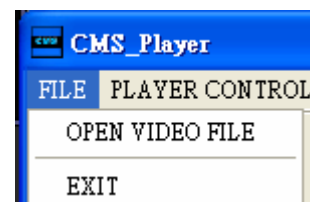
Click on , or right click on the site and select <Playback> → <Local Playback>.




After selection, the CMS Player will be displayed. The CMS Player, which is a compact version of the standard DVR Player, is shown as the figure below.




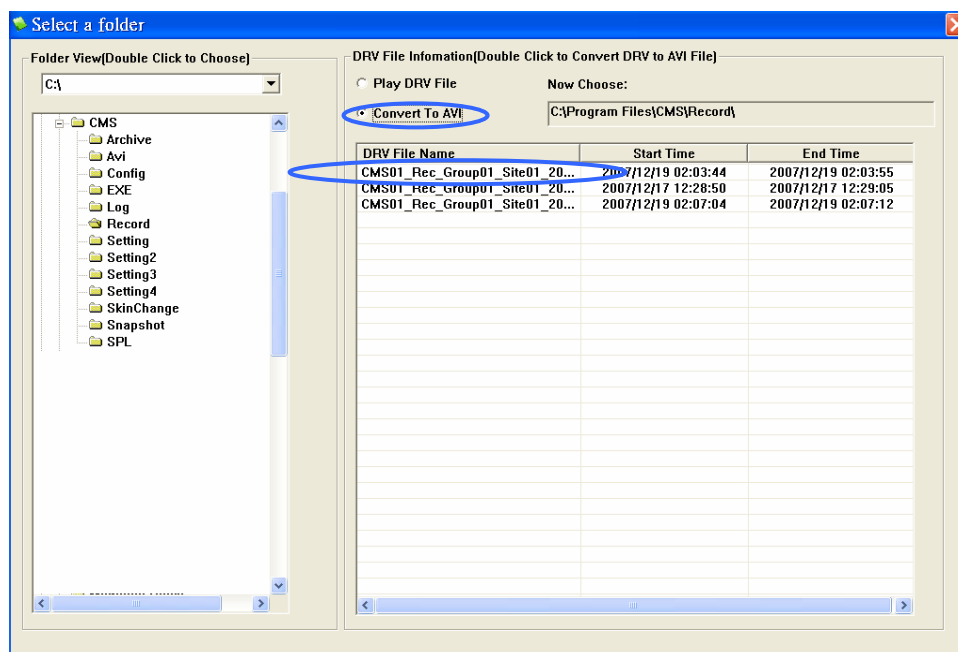
Scroll down the <FILE> menu and select <OPEN VIDEO FILE>, or click on  to open the video file.



 **NOTE:** The CMS Player can only be opened within the CMS program. If you try to open the CMSPlayer.exe, an error message will pop up.

To convert *.drv files to *.avi files

Scroll down the <FILE> menu and select <OPEN VIDEO FILE>, or click on , and the “Select a folder” window will be displayed. On the top center of this window, click <Convert To AVI>. Find the *.drv file that you wish to convert to *.avi, and double click on it. When you see the “Convert Over” message, the conversion process is completed. The file will be stored under “C:\Program Files\CMS\Avi” folder.

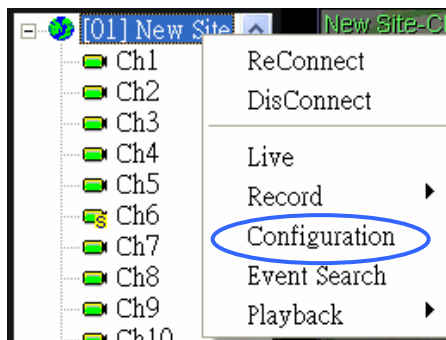


For more information about the CMS Player operations, please refer to the Appendix A.

7.4 Configure the OSD Menu of the Connected Site

The OSD menu of the connected site contains a list of items that are used to configure the connected site.

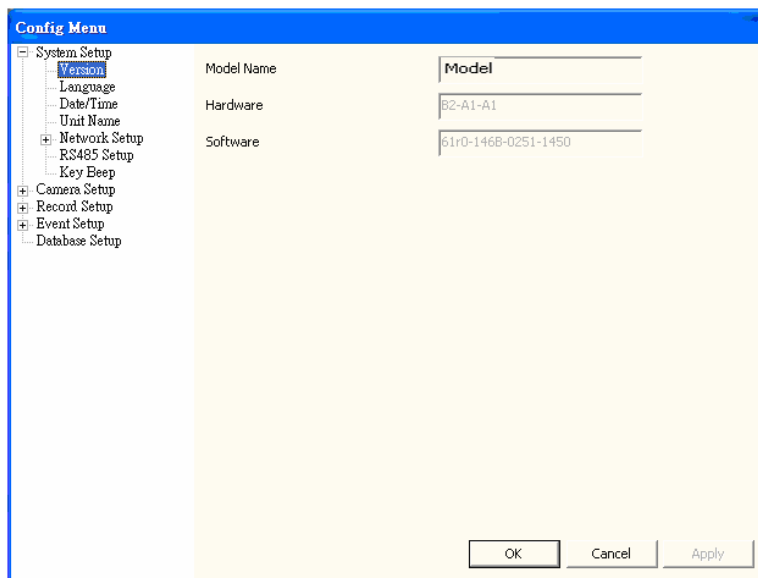
Right click on the **Site** and select <Configuration> to open the OSD menu.



The OSD menus for DVR, IP camera, and Video Server are different from each other. Refer to the following for examples.

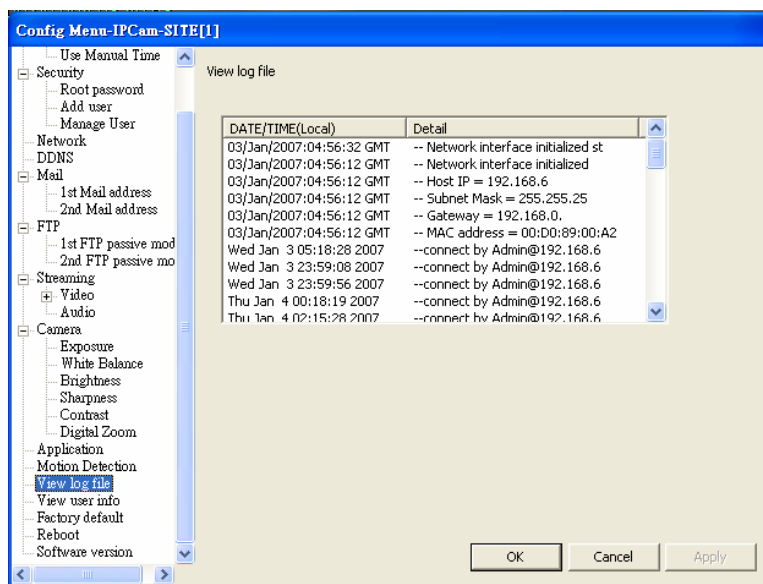
OSD Menu of a DVR

The Menu function is similar to the DVRRemote Software. Please refer to the DVR User's Manual for detail instruction.



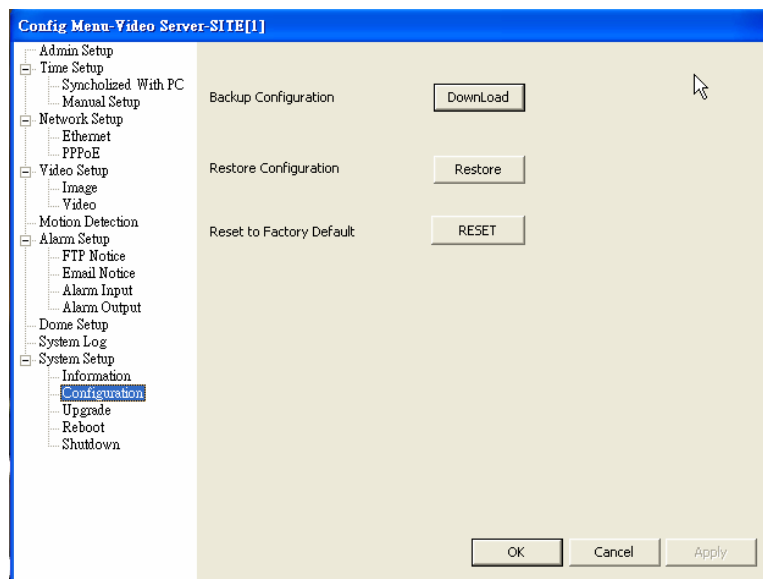
OSD Menu of a IP Camera

Please refer to the IP Camera User's Manual for detail instruction.



OSD Menu of a Video Server

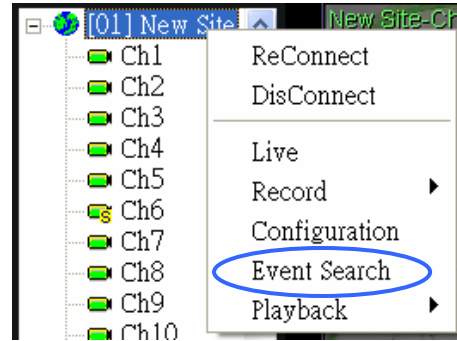
Please refer to the Video Server User's Manual for detail instruction.



7.5 Search for Event Videos

The CMS is capable of searching, playing back, and archiving the event videos.

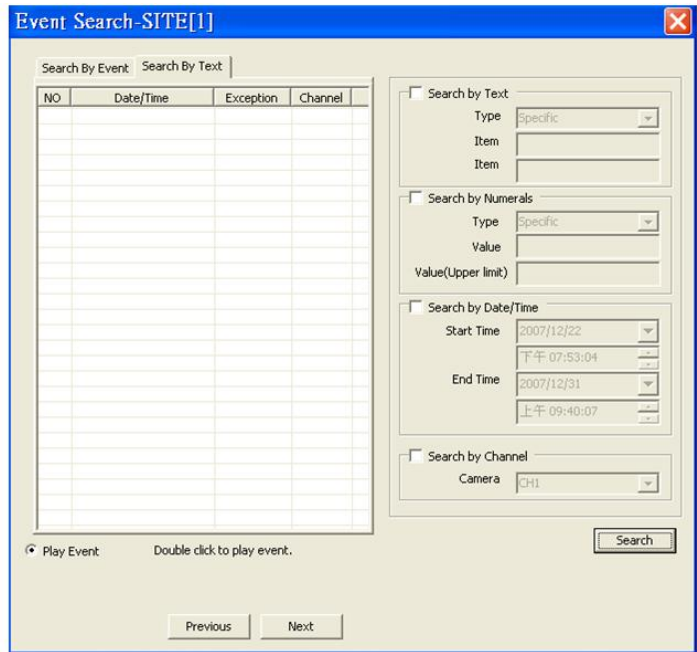
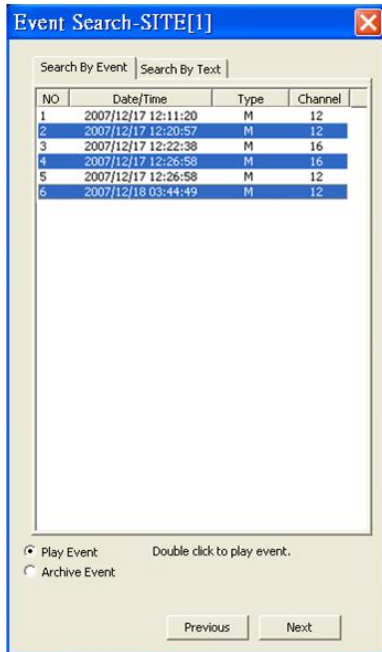
Right click on the **Site** and select <Event Search> and the <Event Search> window will be displayed.



You can search the event list of the connected DVR. If you have installed the POS module, you can either search by event or text.

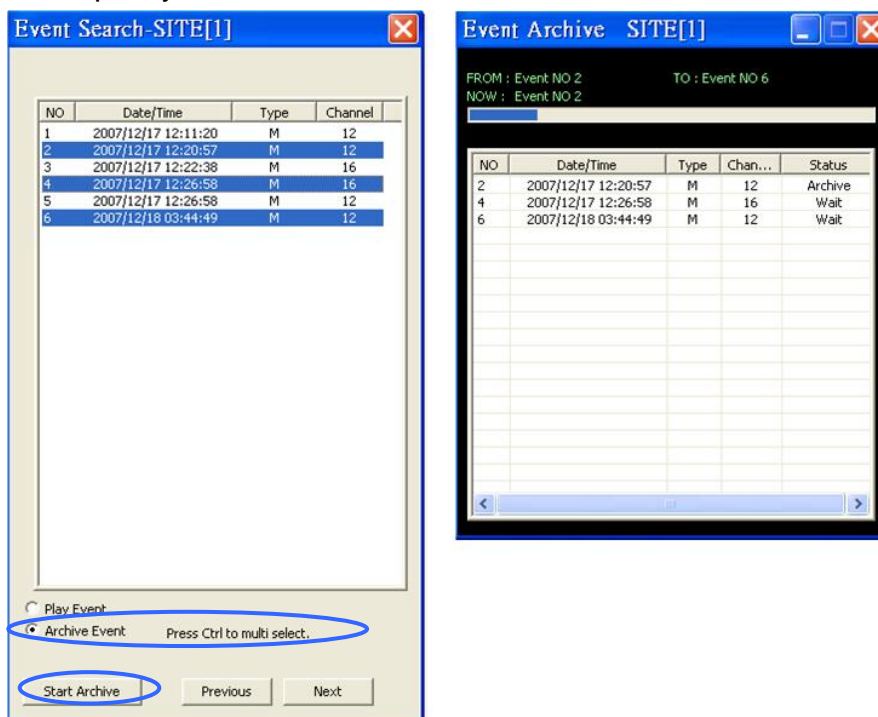
To play the event video

Select “Play Event” and double click on any item to view the playback of the event.



To archive the event video

Select “Archive Event” and press the “Ctrl” key to select multiple event videos to be archived. The maximum items can be selected is 1000, which is the capacity of the list.





Click on “Start Archive” and an “Event Archive” window will pop up. The progress bar shows current downloading position. The status column shows the event is under “Archive”, “Wait”, or “Done” condition.



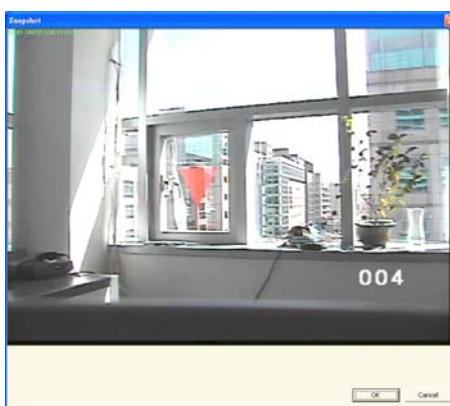
NOTE: The event archive or normal video archive for different sites can be performed simultaneously.

7.6 Take a Snapshot



The  is a simple screen capture tool. When you click on the  button, it will capture the screenshot of the window that you are currently viewing. You can save the screenshots to the default path “C:\ProgramFiles\CMS\Snapsho” or the folder that you have previously set in the file path. Please refer to <Setup the File Path> for more information about changing the file paths.

There are 2 ways to take the snapshot. One is to click on <SNAPSHOT>, and the snapshot window will be displayed. Select <OK> to save the file.

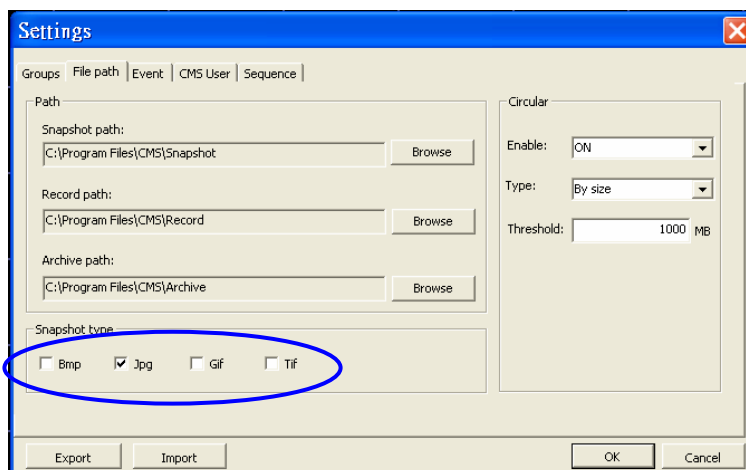


The other way is to right click on the window, and select <Snapshot>. Note that it will only capture the image of the selected channel . The file will be saved without displaying the image.



NOTE: The default image format is *.jpg. If you have selected more than one file types and took the snapshot, you will get more than one files of the same snapshot image.

Please go to <Settings> to setup the snapshot file type.



7.7 2-Way Audio Talk

2-way audio talk function enables the user to communicate with the camera side. Currently the only supported camera types are MegaPixel IPCam and Video Server.

Right click on the channel and select <Talk(On/Off)> from the pull-down menu.





If the talk function is successfully turned on, "Talk" will shown on button left of image. The user can speak through the microphone now to communicate with the camera side.



Currently supported 2-way audio types are:

Camera Type	Audio Type
Video Server	PCM audio type
MegaPixel IPCam	ALaw and uLaw audio type

 **NOTE:** MegaPixel HTTP Stream Protocol and all other audio types currently do not support 2-way audio.

 **NOTE:** The communication mode is one to one. Broadcasting function currently is not available.

7.8 Record Function

While the videos are usually recorded to the connected DVR, the user can choose to record live and playback video clips to the local computer as an option.

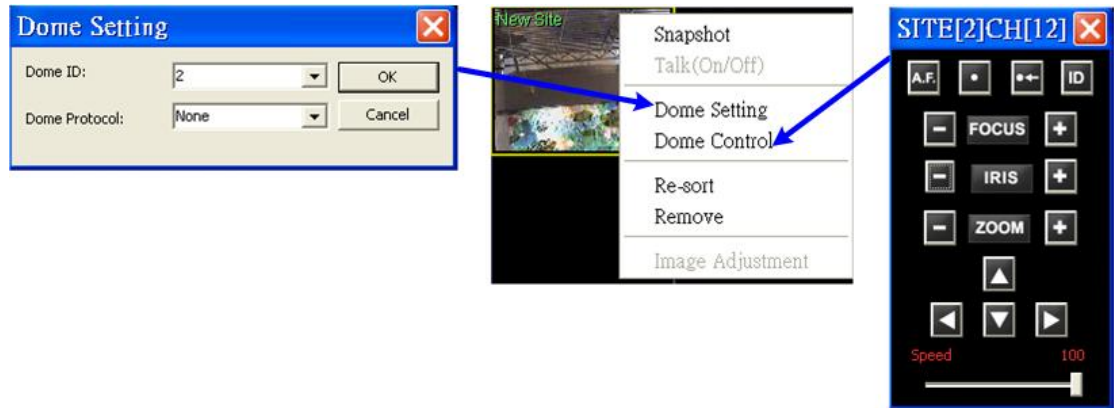
Right click on the **Site** and select <Start Record> to start recording, and <Stop Record> to stop recording.



When the channels are being recorded, the title of the channels will show a capital letter “R” (**[R]**) at the end. The recorded files will be saved to the default folder “C:\Program Files\CMS\Record”.


7.9 Dome Setting / Dome Control

The users can also set/control the dome camera in the CMS. Right click on the channel where a dome camera is properly installed. Select <Dome Setting> to setup the Dome ID or Dome Protocol.





The function of each button of the <Dome Control> panel is described below.

A.F. (Auto Focus)

Click on  to focus the camera automatically.

Set/Go Preset Point

Click on  to set a present point, and  to go to the preset point.

ID

Click on  to setup the Dome ID/Protocol. This function resembles to the <Dome Setting>.

Focus

This is used to manually focus on the objects. Click on the +/– icons to adjust the focus.

Iris

This is used to setup the iris. Click on the + icon let in more light, or the – icon to reduce the light.

Zoom

This is used to zoom in/out to the object. Click on the +/– icons to adjust.

Direction Keys

These keys are used to pan and/or tilt the dome camera.

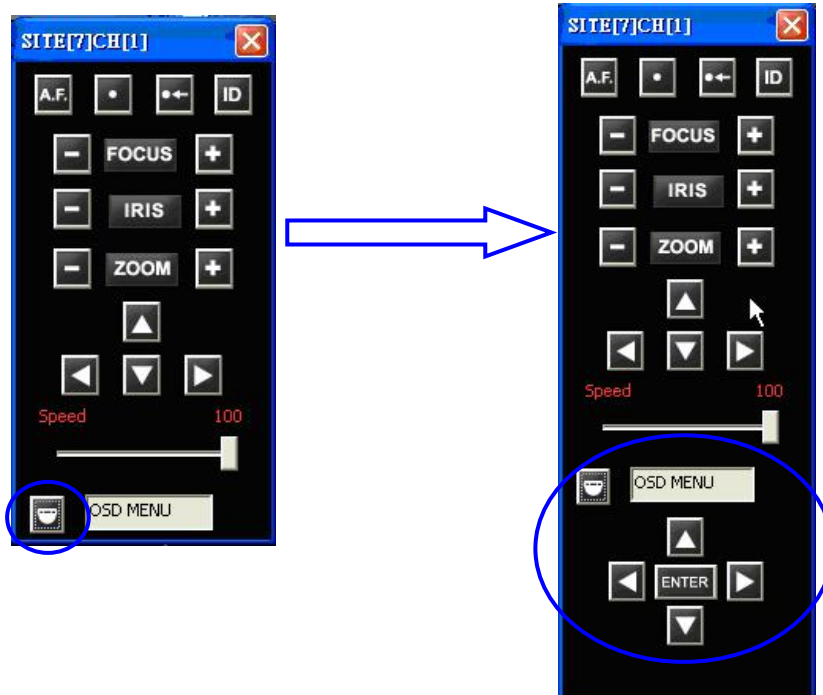
Speed Slider Bar

The slider bar is used to adjust the speed of the pan/tilt movement. 0 is the slowest and 100 is the fastest.




NOTE: The <Dome Control> panel is different if the dome camera is connected through a Video Server. Refer to the following figures for detail information.

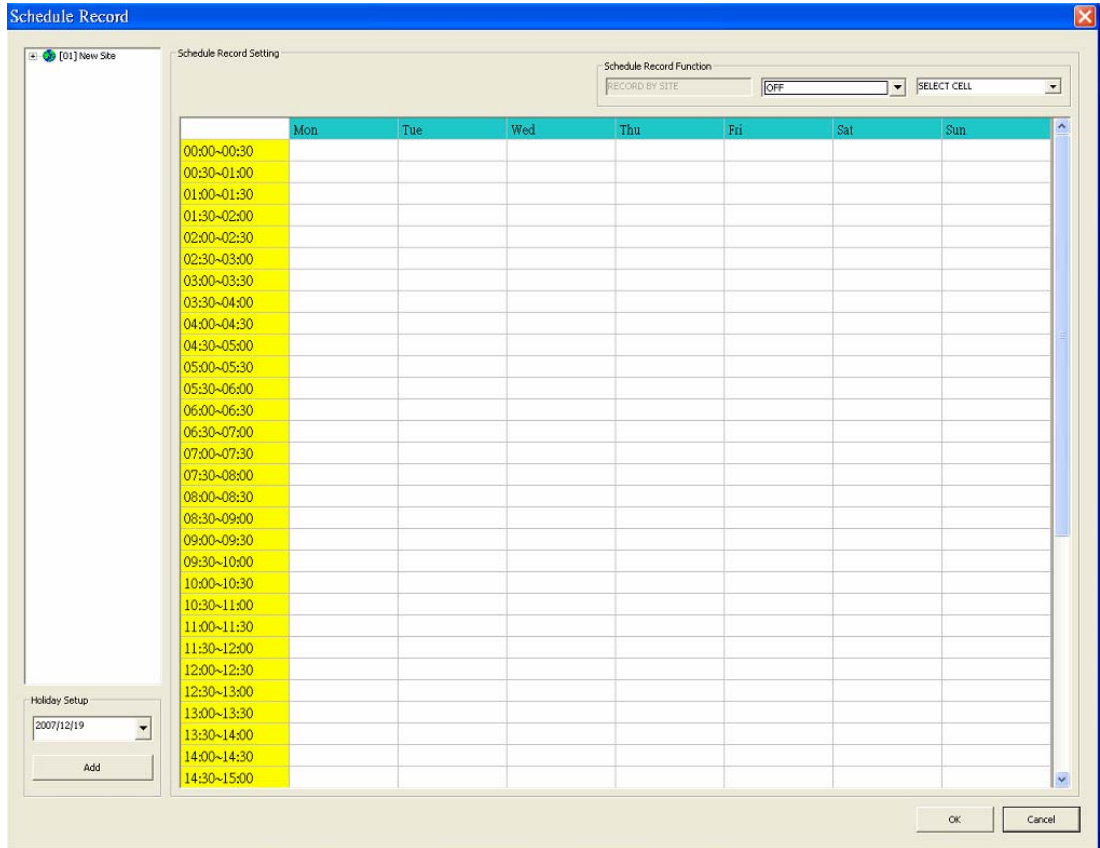
There is an extra button as circled below. Click on it to open the OSD menu.



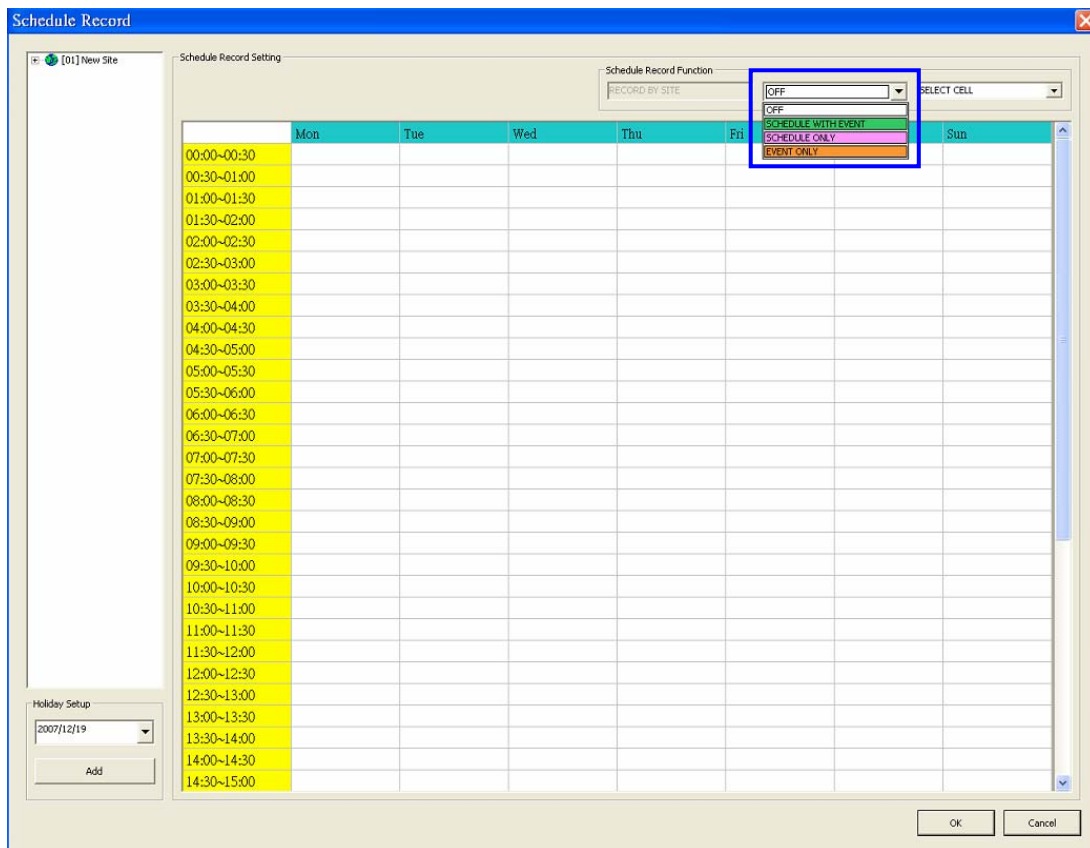
7.10 Schedule Record Function

The user can schedule specific time to record the videos to the local computer.

The Schedule Record window will be displayed by clicking on  icon on the top of the CMS main window.



The scroll-down menu circled below shows the recording options.



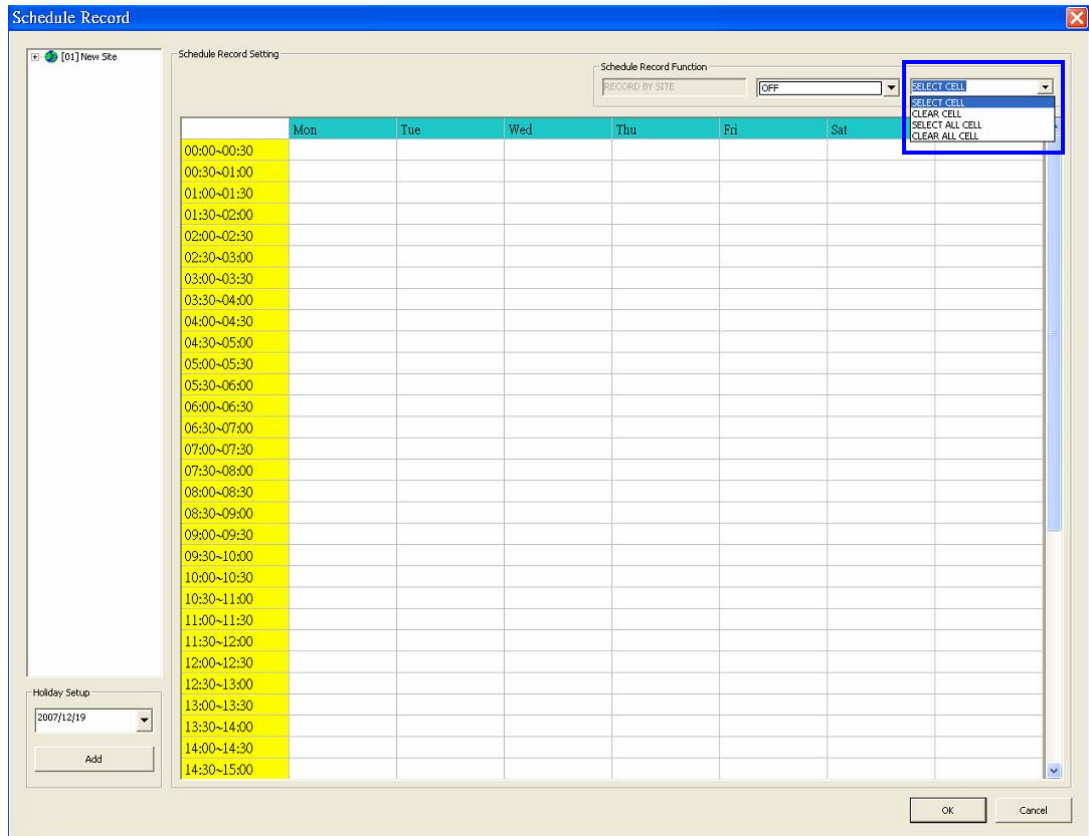
<OFF>: To turn off the schedule record function.

<Schedule with Event>: To record both the normal and event videos within the scheduled time frame.

<Schedule Only>: To record only the normal videos within the scheduled time frame.

<Event Only>: To record only the event videos within the scheduled time frame.

The scroll-down menu circled below shows the schedule options.



<Select Cell>: To manually select cell from the table.

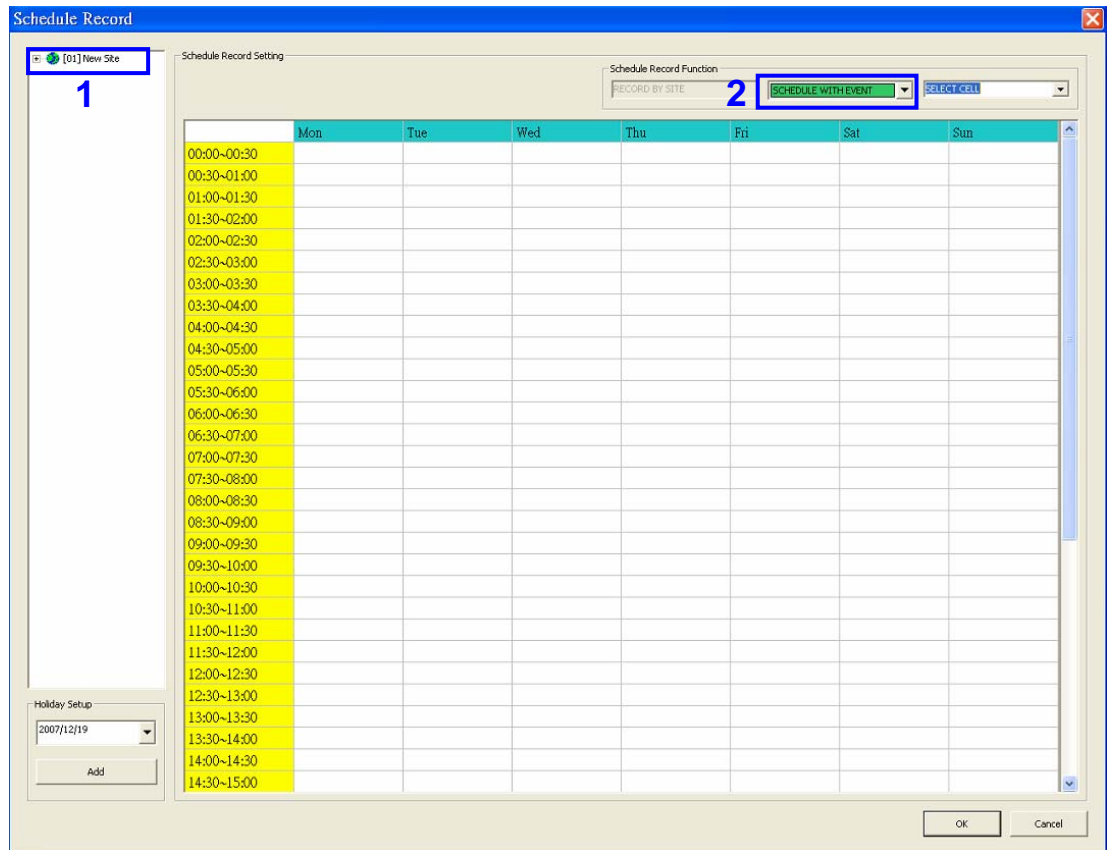
<Clear Cell>: To manually clear cell from the table.

<Select All Cell>: To select all cells from the table.

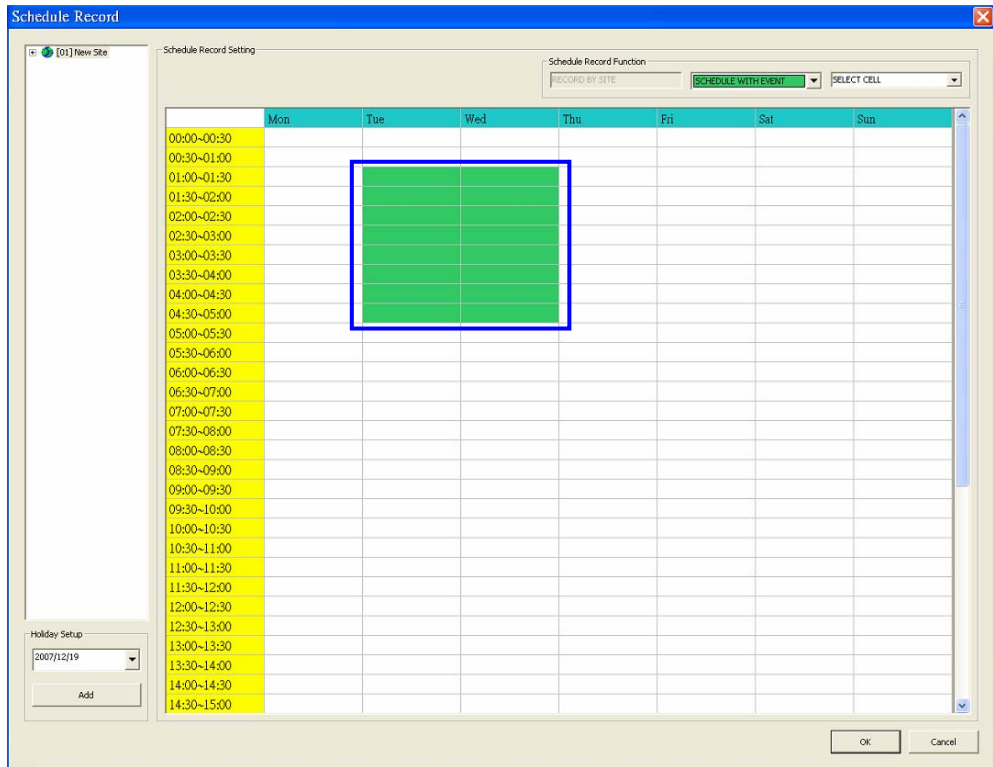
<Clear All Cell>: to clear all cells from the table.

Here is a step by step explanation on how to set the schedule record for your CMS.

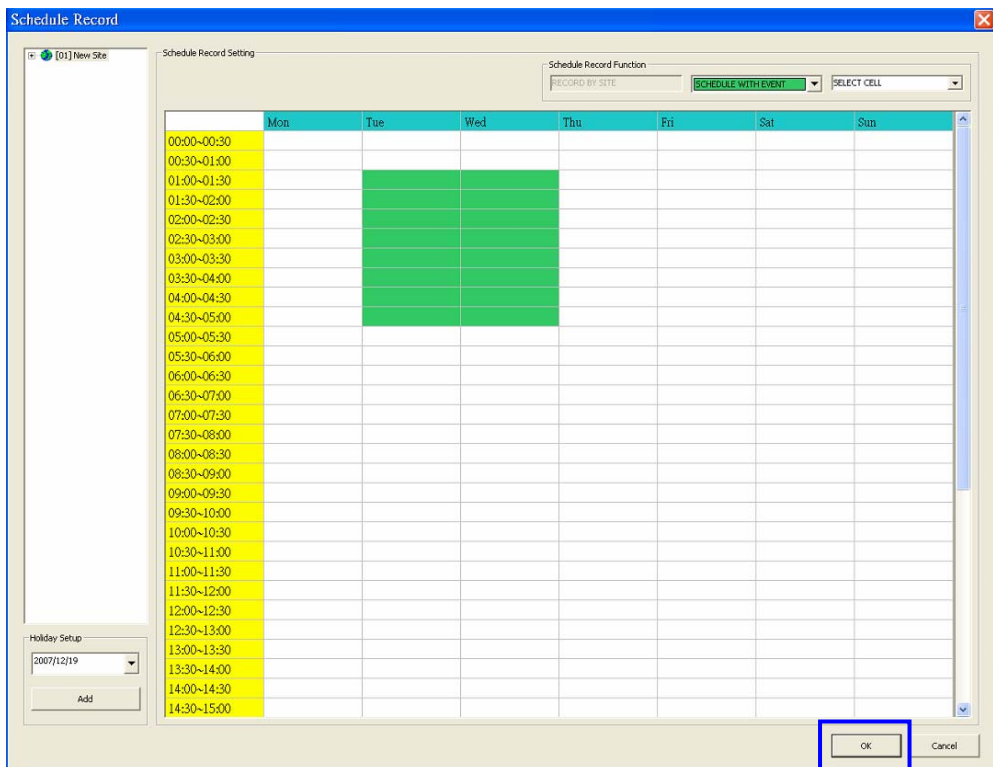
Step 1: Select a site or a channel from the box on the left by a single click. When a site is selected, the same setting of schedule record will be applied to all channels. Click on a channel to set unique schedule record for the particular channel. In this example, we will choose to set a site. Select a site in box 1, and set the recording option to <Schedule with Event> in box 2.



Step 2: Assuming that we want to set the CMS to record the site from 1am to 5am on Tuesday and Wednesday. Click on 1:00~1:30 of Tuesday and drag to 4:30~5:00 of Wednesday; and the color of the cells will be changed to green indicating that these cells are going to record <Schedule with Event>.

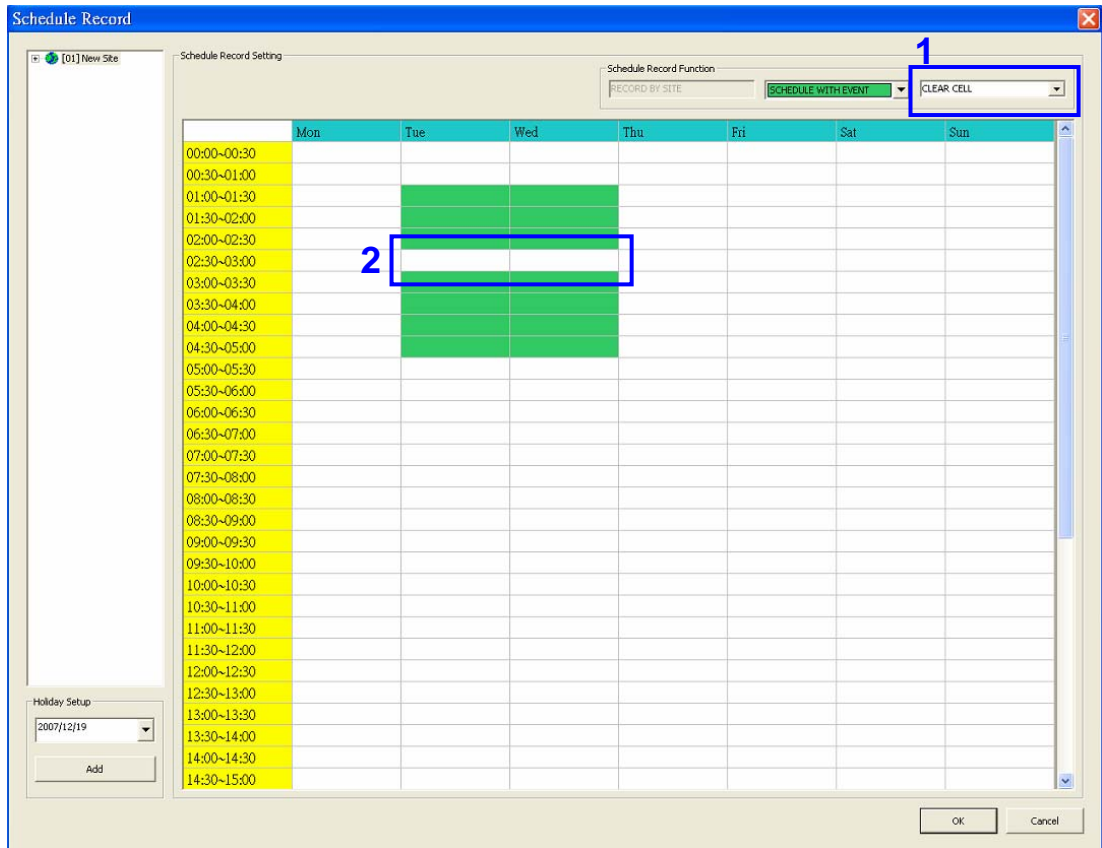


Step 3: After the time frames are selected, click <OK> to save and exit the Schedule Record.

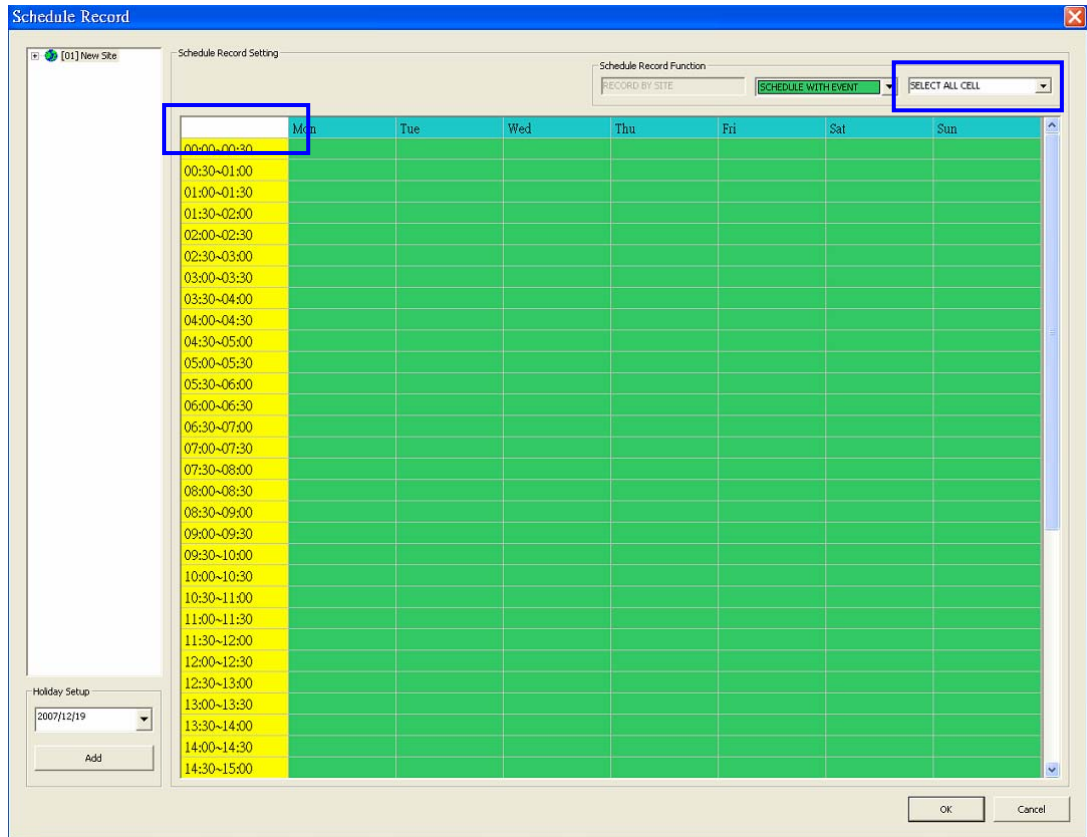


User's Manual

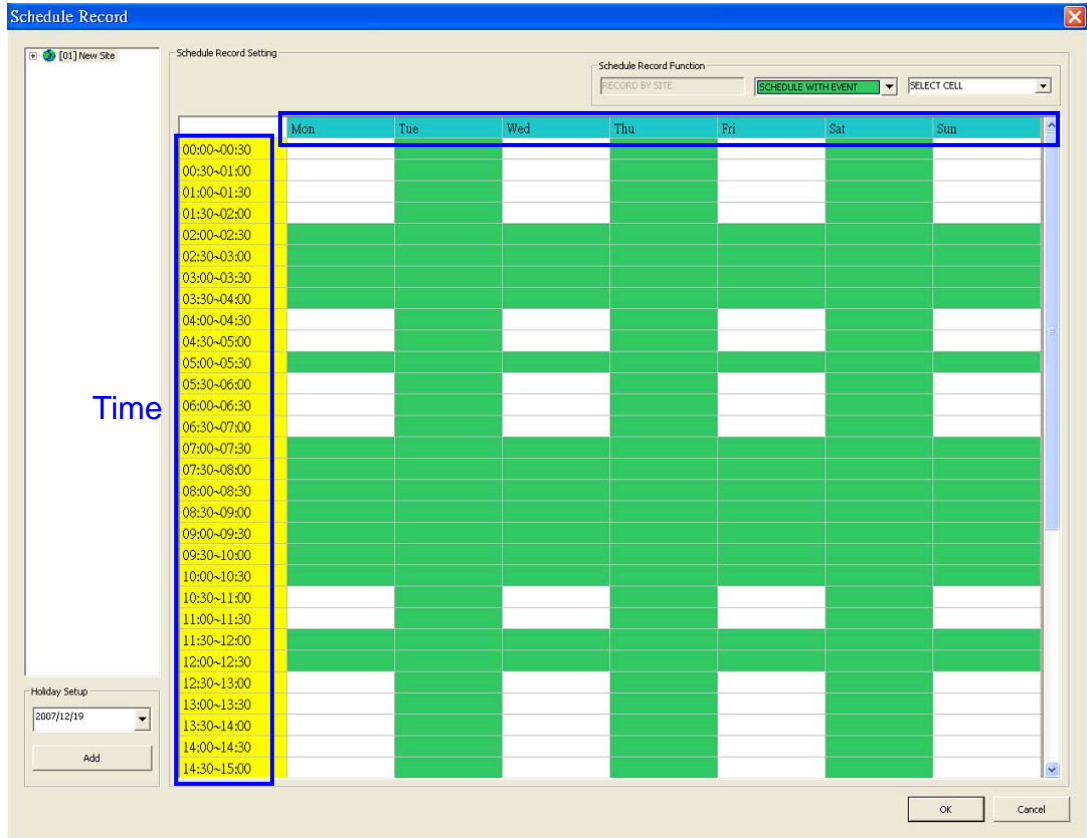
If you want to remove a time frame from the schedule, for instance, 2:30~3:00, set the cell selection to <Clear Cell> in box 1. Click and drag 2:30~3:00 from Tuesday to Wednesday. The blank cells indicate that they are not going to record anything. Click on <OK> to save and exit the Schedule Record.



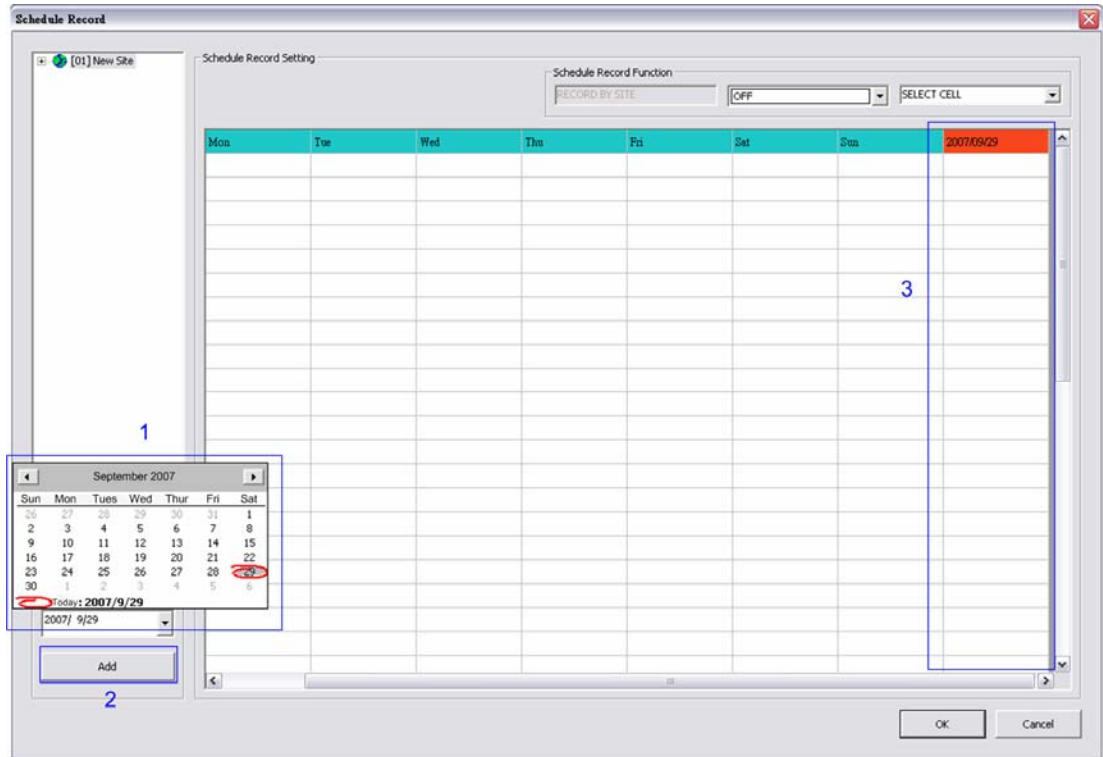
If you want to set the schedule to record at all times, set the cell selection to <Select All Cell> or click on the circled blank cell located on top left corner of the table. If you want to reset the schedule of the site, set the cell selection to <Clear All Cell> to do so. Click on <OK> to save and exit the Schedule Record.



Another way to select or clear time frame is by click on the Day or Time tabs. For example, when you click on <Tuesday> tab, the color of all Tuesday cells will be changed indicating they are going to record normal and event videos. When you click on 5:00~5:30 tab, color of all 5:00~5:30 from Monday to Sunday will be changed. Click on <OK> to save and exit the Schedule Record.




If you wish to setup a different schedule for a special holiday, simply select a date from the pull-down menu of <Holiday Setup> and click on <Add>. On the right of the <Schedule Record> window, you will see a new day cell as shown in #3. Setup the schedule for that day, and the schedule record will only run once for that special day.

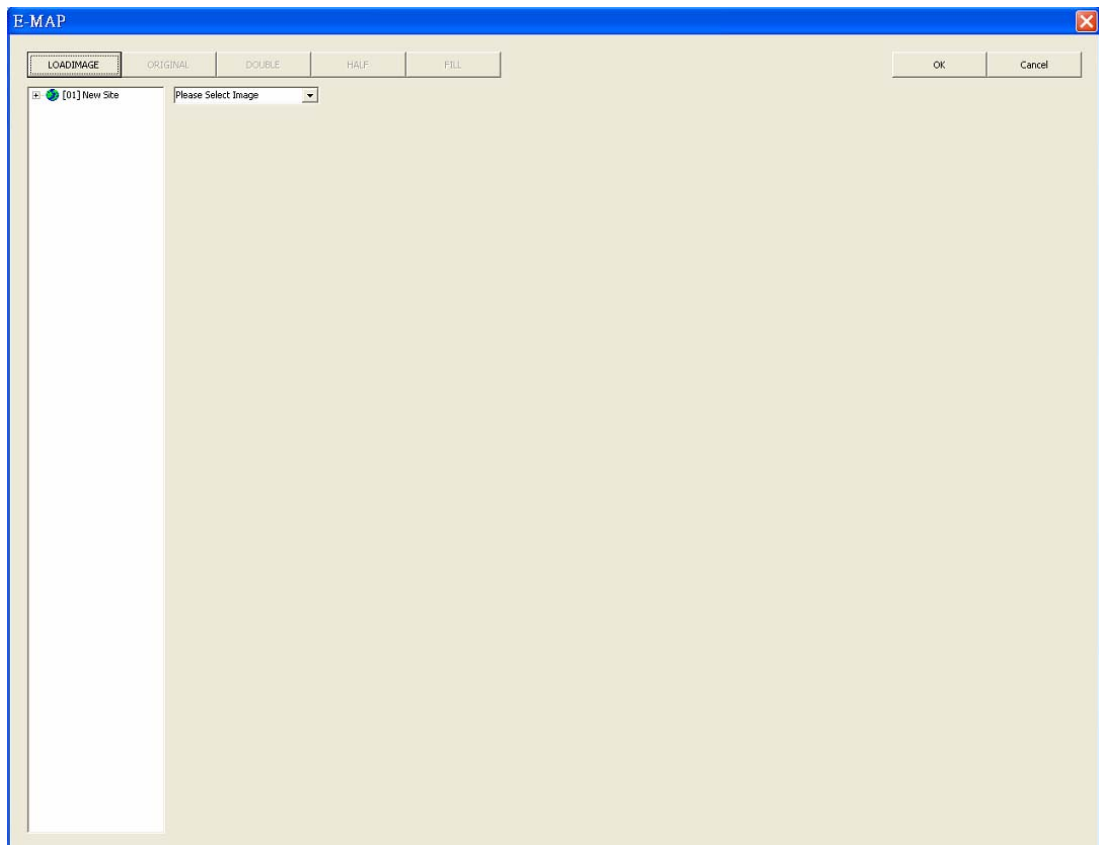


7.11 E-Map Function

The E-Map is a program that allows the user to illustrate the position of the cameras on a self selected image.

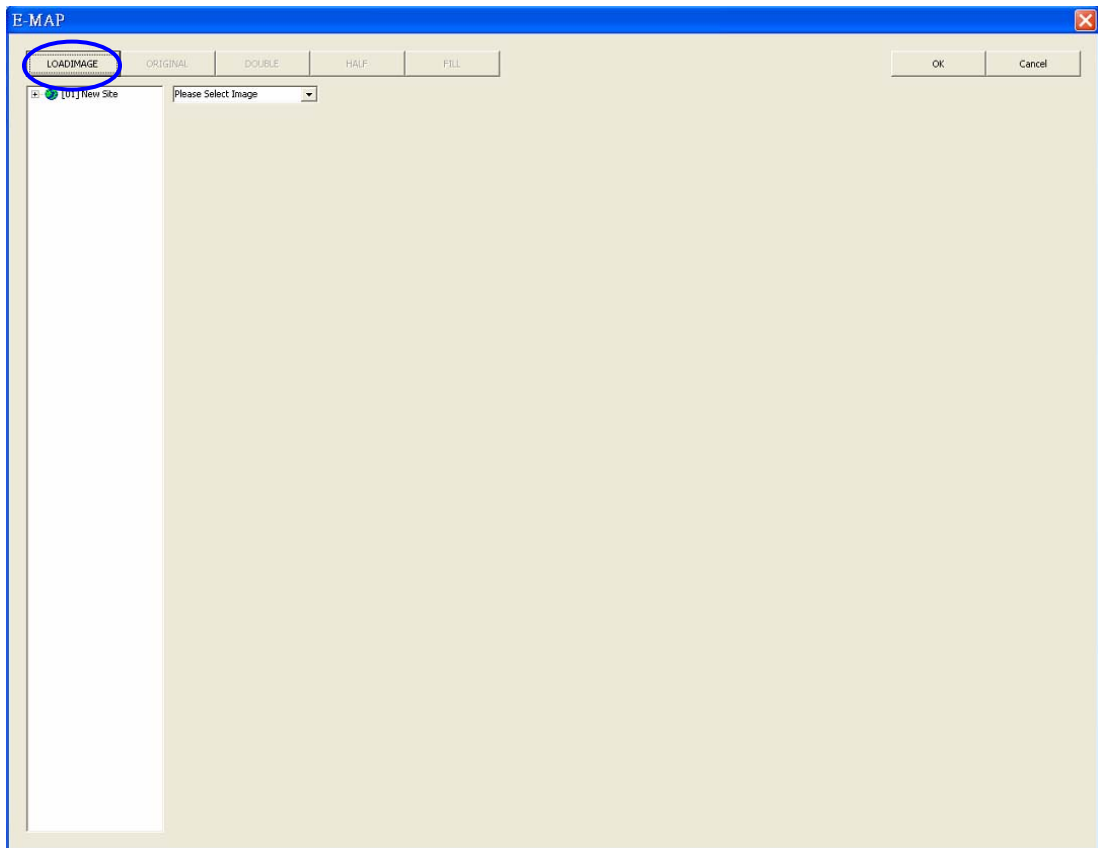


Click on  icon located on the top of the CMS main window to open the E-Map. The figure below is the main window of the E-Map.

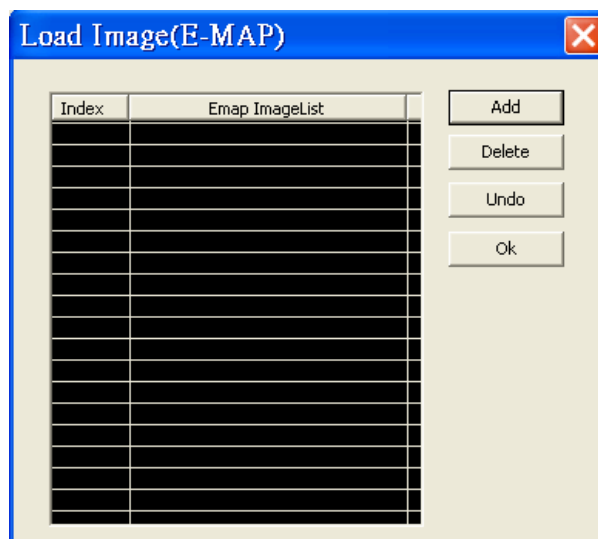


Please follow the steps below to setup the E-Map.

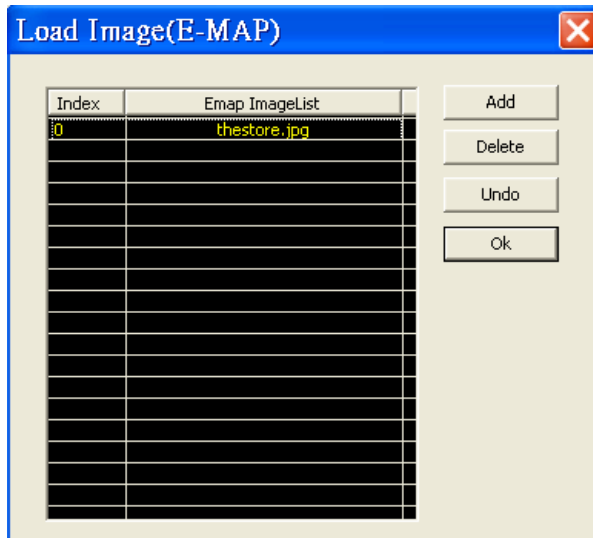
Step 1: You will need to load an image file to the E-Map. Click on <LOADIMAGE> to do so.



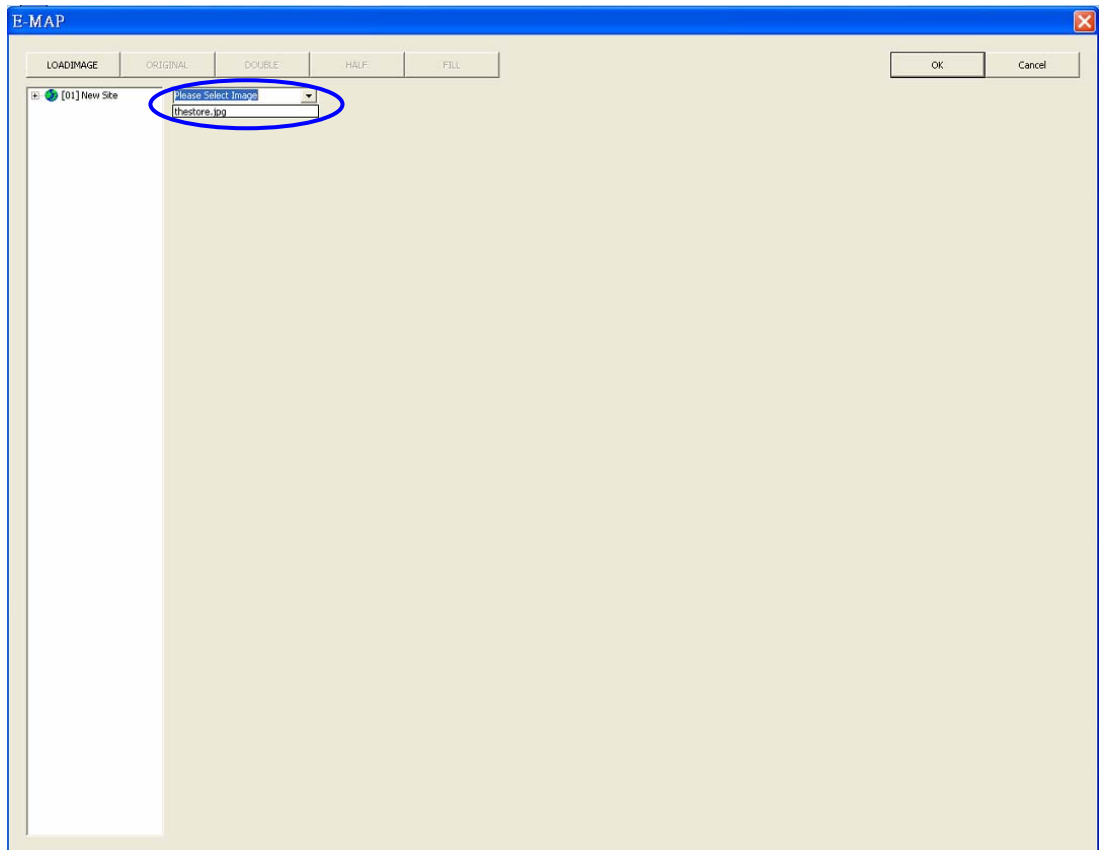
Step 2: The figure below is the Load Image window to add, delete, undo, or confirm the images. Click on <Add> to add a image. Note that the E-Map only supports *.bmp, *.jpg, and *.gif files.



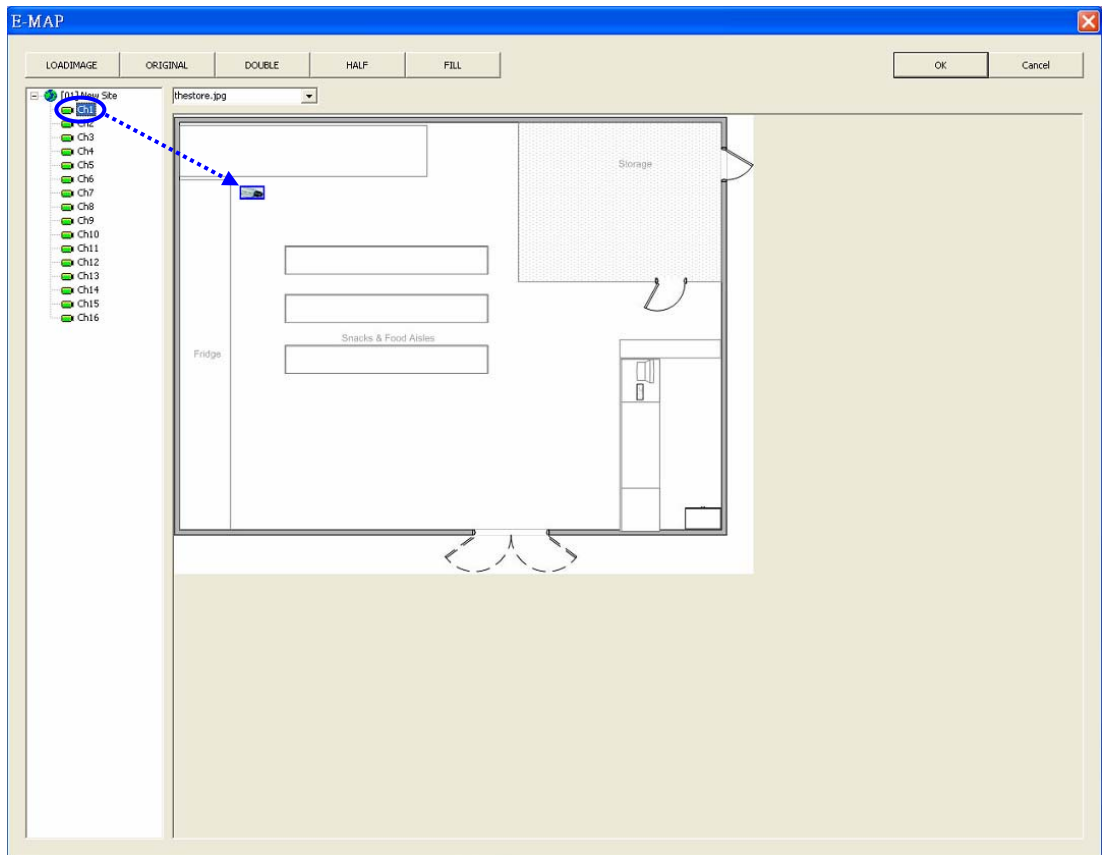
Step 3: After the image is added, the filename of the image will be displayed in the Load Image window. Index indicates the order of the files. If you add a image to the E-Map, the 2nd index will be “1”. After the image is loaded, click <Ok> to confirm.



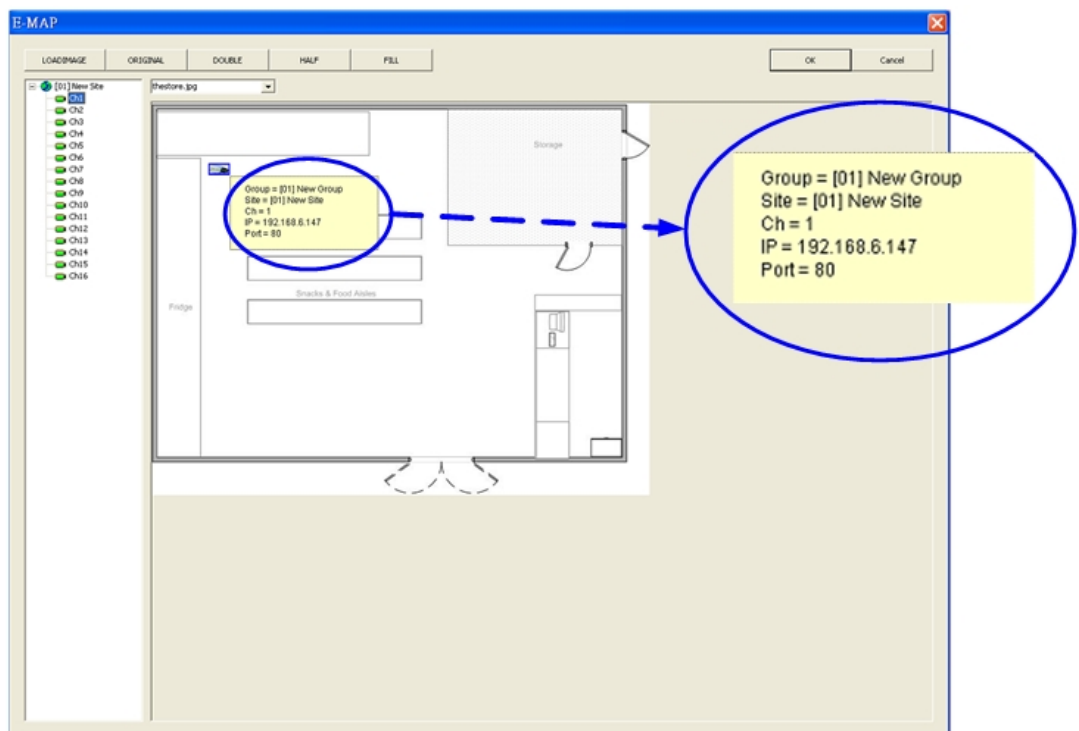
Step 4: Select the image file that was loaded to the E-Map from the scroll menu circled below.



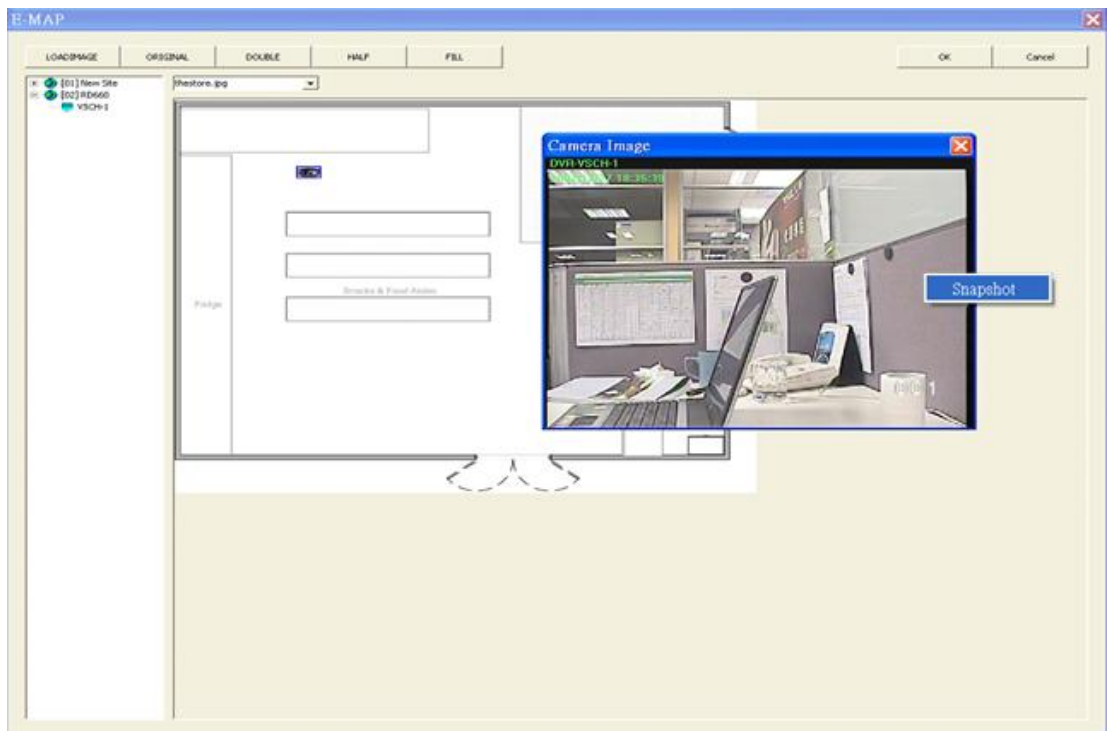
Step 5: The chosen image will be displayed in the E-Map main window. The image of a grocery store is used in the following example. Drag and drop a channel from the box on the left to any place of the image.






Step 6: When you point the mouse to the camera icon on the image, an information dialog box will be displayed as shown in the figure below.



Step 7: Double click on the camera icon on the image to see the live video of the camera.



There are three different types of camera icons in E-Map: dome camera, fixed camera, and alert icons.

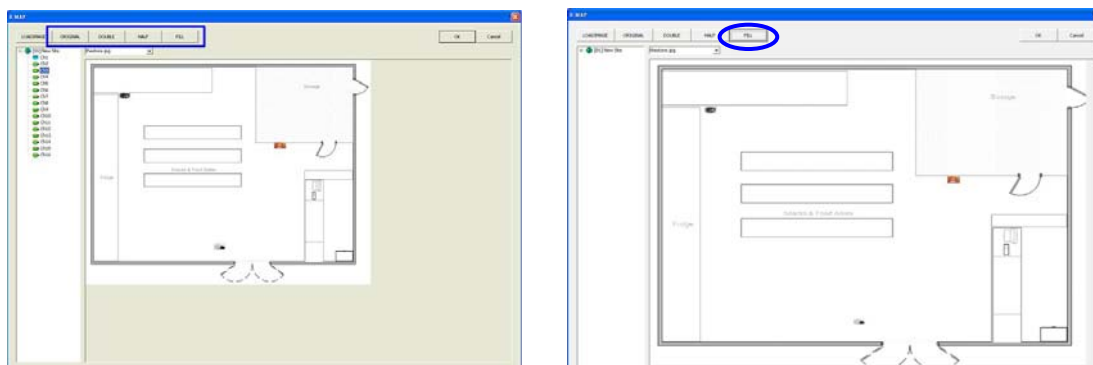
-  Dome Camera icon.
-  Fixed Camera icon.
-  Alert icon.

Dome camera icon will be displayed when the selected camera is a PTZ (pan/tilt/zoom) camera. Fixed Camera icon will be displayed when the selected camera is a fixed camera. Alert icon will be displayed when an alert is triggered to the camera on the image. The alert icon will blink to attract attention.



NOTE: By right clicking on the live video in E-Map, the user can capture snapshot images.

You can adjust the display size of the image on E-Map by clicking on the icons circled below.



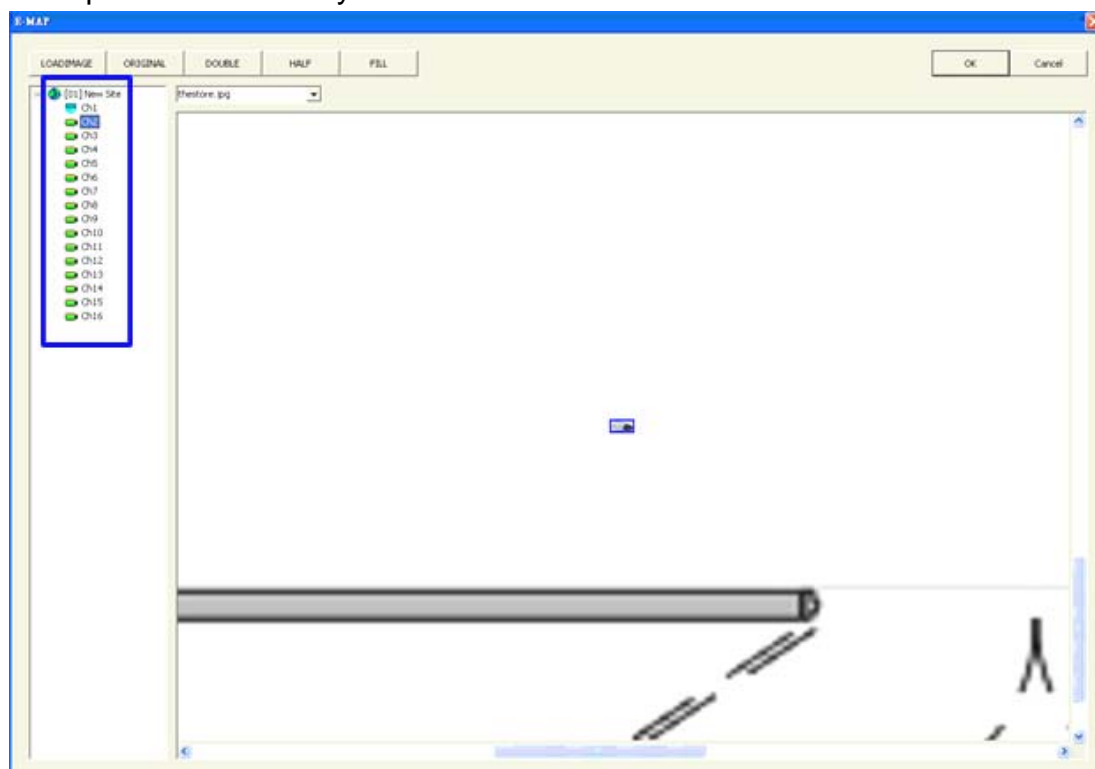
<Original>: To display the original size of the image.

<Double>: To double the size of the image.

<Half>: To reduce the image size by half.

<Fill>: To adjust the image to fit the window (refer to the figure on the right).

When the image is very large, or when you cannot see the entire image in the window on the right, click on a channel in the circled box on the left and the E-Map will automatically move to the location of the selected channel.



7.12 Health Function

This is a function that verifies the HDD status of the DVR sites in current connected group. The following figure is an example. The words “Retrieving Info” will be shown at bottom while the information is being updated. Note that since IP cameras do not have connected HDD, they will not be shown in the chart.

Health Status (Refresh Rate = 5 min)					
Site[01]	Device Name	Internal/External	Free Size	Active/NonActive	Temperature
	Maxtor 4R160L0	Internal	147GB	Active	37
Site[02]	Device Name	Internal/External	Free Size	Active/NonActive	Temperature
	Maxtor 4R160L0	Internal	147GB	Active	36
Site[04]	Device Name	Internal/External	Free Size	Active/NonActive	Temperature
	Maxtor 6Y080L0	Internal	71GB	Active	50
Site[05]	Device Name	Internal/External	Free Size	Active/NonActive	Temperature
	Maxtor 7Y250P0	Internal	228GB	Active	42
Retrieving Info ...					

The information items shown in the chart are described as below:

Device Name

This item shows the model name of the HDD.

Internal/External

This item indicates whether the HDD is an internal or external device.

Free Size

This item indicates the available free size of the HDD.

Active/Non Active

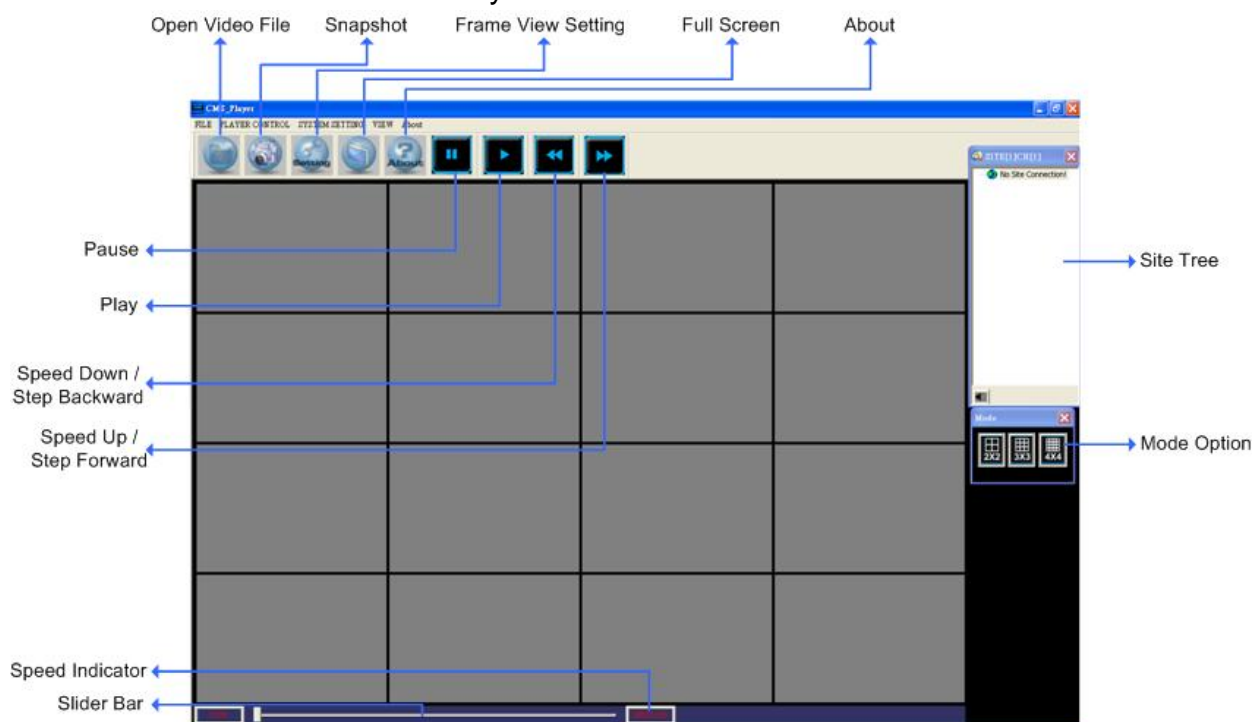
This item indicates whether the HDD is active or non-active.

Temperature

This item indicates the current temperature of the HDD in Celsius degree.


Appendix A: The CMS Player

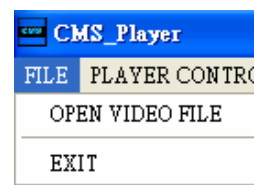
The CMS Player is a compact version of the standard DVR Player. The main window of the CMS Player is shown below with the name of the buttons.



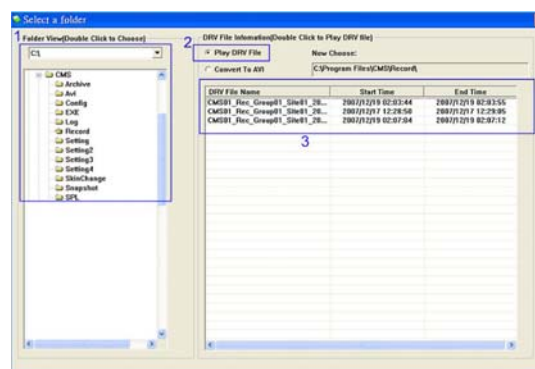
The function of each button will be described in the following paragraphs.

Open Video File

Click on  to open the video file. The other way to open the video file is by clicking on the File Menu Bar as shown on the right.



To open a file, you need to find the folder containing *.DRV files from box 1. After the folder is found, select <Play DRV File> of box 2. Lastly, double click on a file in box 3, and the file will be played immediately. If you want to convert the *.drv file to *.avi format, click on <Convert To AVI> underneath box 2 instead, and double click the file in box 3.




The default path is:
"C:\Program Files\CMS\Record"



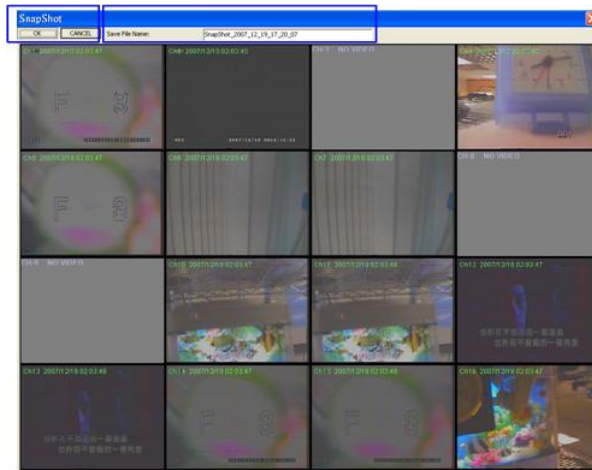
NOTE: The recorded video of IP camera can only be played back by CMS player. Some errors might occur if playing back with DVRPlayer.

Snapshot

Click on  to take a snapshot of the screen. The other way to take a snapshot is by clicking on the Player Control Menu Bar as shown on the right.




When the snapshot window is opened, you can choose to rename the filename or leave it as it is. Click on <OK> to save the snapshot or <CANCEL> to discard it.

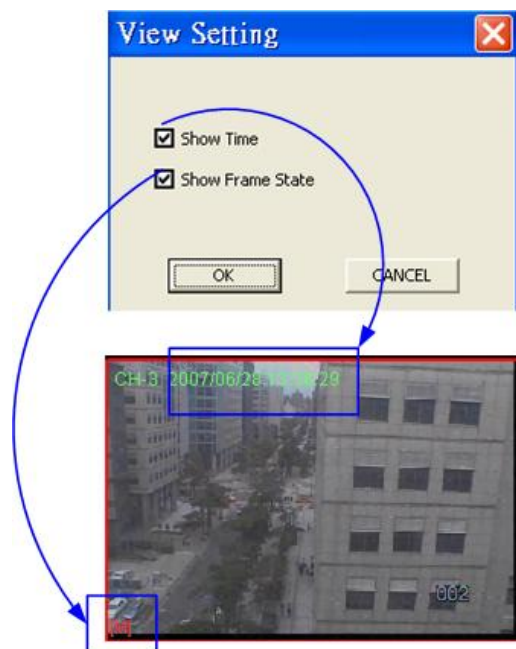


The default path is:
 "C:\ProgramFiles\CMS\Snapshot"

Frame View Setting

The user can choose to show/hide the time and alert text on the video.


Click on the  icon, and the View Setting window will be displayed. Check <ShowTime>, and the time will be shown on the screen. Check <Show Frame State>, and the alert text such as motion, or video loss will be shown. Uncheck to hide the information.



The other way to open this function is by clicking on the System Setting Menu Bar as shown on the right.




Full Screen

Click on  to change the view to full screen mode. The other way is by clicking on the View Menu Bar as shown on the right.




About

Click on  to view the information of the CMS Player version.




Pause

Click on  to pause the video. The other way is by clicking on the Player Control Bar as shown on the right.




Play

Click on  to play the video. The other way is by clicking on the Player Control Bar as shown on the right.




Speed Down / Step Backward

Click on  to speed down the video. The other way is by clicking on the Player Control Bar as shown on the right.



NOTE: When the playback of the video is paused, you can click on this button to move one step backward.

Speed Up / Step Forward

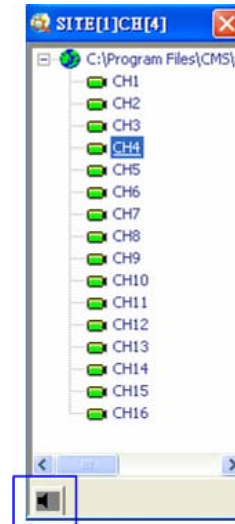
Click on  to speed up the video. The other way is by clicking on the Player Control Bar as shown on the right.



NOTE: When the playback of the video is paused, you can click on this button to move one step forward.

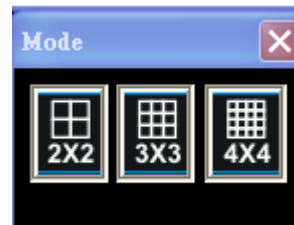
Site Tree

The site tree shows the channels of the connected DVR. Double click on a channel to view the specific channel in one screen. Click on the speaker icon located on the bottom to enable or disable the audio. You can also find it under the System Setting Bar.



Mode Option

Click on any of them to view the image in a multiple window mode. The modes are available from 4-window to 16-window



Speed Indicator

1 indicates the slowest playing speed, 9 is the normal speed and 20 is the fastest speed.

Slider Bar

Click and drag the bar to search through the video.

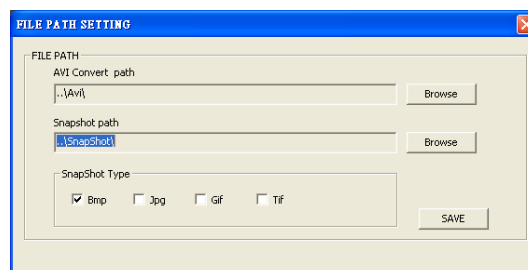
Other functions of the Menu Bar that are not introduced in this section will be

described here.

The <File Path Setting> under the System Setting Menu Bar allows the user to set the file path.



You will be able to set the paths for *.avi and snapshot files here. After the path is set, click on <Save> to save the settings. Note that you can choose the snapshot files to be saved as *.Bmp, *.Jpg, *.Gif, or *.Tif formats. The default file type is *.Bmp format.



Under the View Menu Bar, you can choose to show/hide the Toolbar. When you closed the Site Tree, Mode Option, or Slider Bar, you can recall the window under this menu too.



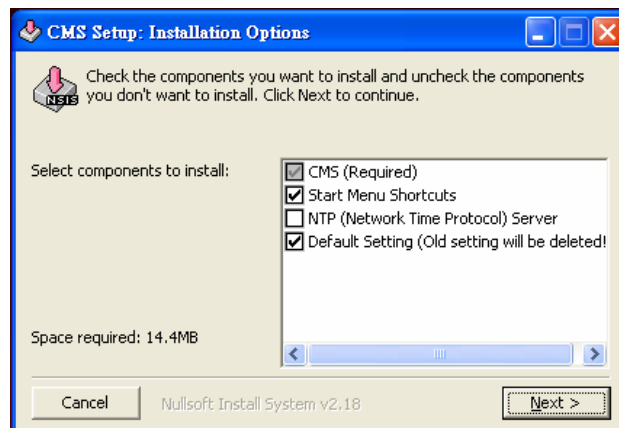
Appendix B: FAQ

The followings are some common situations when the user is having difficulty with the CMS server.

1. The CMS server does not work properly. How can it be recovered or where can I ask for help?

Please try the following ways to recover it first.

- A. Please check if the computer meets the system requirement.
- B. If the CMS automatically closes when it's opened or when it's connecting to sites, please send the files stored in \CMS\Setting\ under improper operation condition. Afterwards, re-install CMS and check to install **Default Setting** during installation. Remember not to import old setting files. This will tell whether if the old setting data are corrupted.



- C. If CMS cannot successfully connect to sites, check the followings.
 - Confirm IP, port, username, and password of the site. You can connect to the site via IE browser to verify the site exists and is connectable.
 - Close firewall and virus scan software and try to connect again. If the problem is due to firewall or virus scan software, please change their settings.
 - If the connection still failed, please send the IP address to our engineer.



NOTE: When you need to ask for the engineer's help, please send a copy of the files stored in \CMS\Log\ as well.

2. The CMS server takes up too many HDD space.

We have found that the preset of the virus scan software “NOD32” will automatically create a temporary file under windows system temporary folder when the CMS connects to sites. This temporary file will automatically increase the size which causes the HDD became lack of space.

Please go to the control center of the NOD32 and disable **IMON**. Then the problem should be resolved. The following pictures are examples.

