

# *Central Management Software*

## *User's Guide*

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# 1. INTRODUCTION

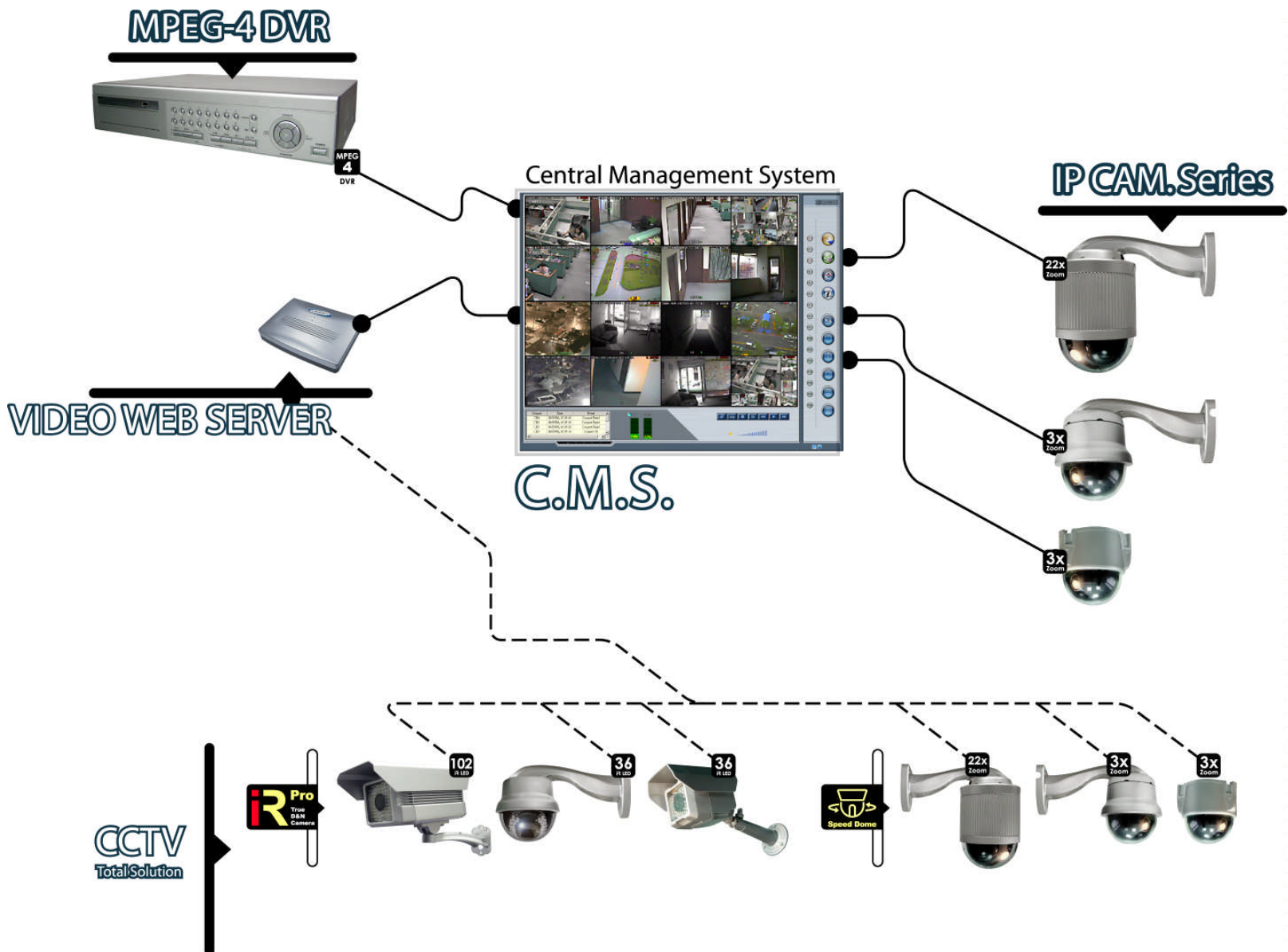
## 1.1 PRODUCT OVERVIEW

The Central Management System (CMS) software offers a powerful and integrated solution for centrally managing and monitoring. Running on Microsoft® Windows® 2000 or XP, CMS software can be accessed securely from any compatible IE browser connection via HTTPS. Each CMS server can manage up to 256 recording cameras simultaneously.

Friendly graphical interface with full functions for the advanced management, intelligent motion detection, flexible scheduled recording and quick event search makes this CMS software excellent for every security demand.

## 1.2 SYSTEM DIAGRAM

This CMS software can connect up to 16 surveillance devices such as DVRs, video servers and IP cameras, each device per channel, and monitor all locations at one server PC. The diagram below shows how this software can be applied in the real situation for your reference.



## 2. FEATURES AND SPECIFICATION

### 2.1 FEATURES

- Multi-site surveillance and full central management software running on Windows 2000 or XP
- Maximum 256 simultaneously recording cameras per CMS server
- Allow live display, record, playback, backup and network multiplex operations
- Equipped with intelligent motion detection function
- Pre-alarm and post-alarm recording to capture the evidence
- Full record log and graphical design for quick event search
- Pan / Tilt / Zoom control


### 2.2 SPECIFICATION

■ SYSTEM REQUIREMENTS	
Operation System	Microsoft® Windows 2000(SP4), XP, or NT 4.0 above
CPU	Intel® Pentium® 4 3GHZ or compatible above
RAM	512MB(recommended minimum), 1GB above better
■ CENTRAL MONITORING	
Display Mode	1CH / 4CH / 6CH / 9CH / 16CH Selectable
Display Mode Setting	Adjustable Sequence & Channel Display Position
Max. Channel No.	16
Remote DVR/PTZ Camera Control	YES
Real-Time Audio Monitoring	YES
Security Level	Guest / Normal / Super
Password Inquiry	YES
Transmitting Format	MPEG4 / JPEG
■ EVENT MANAGEMENT	
Motion / Alarm Detection	YES
Advanced Motion Detection Setting	Adjustable Sensitivity & Detection Area
Motion / Alarm Notification	By Email or FTP
Event Log List	YES
■ RECORDING & PLAYBACK	
Record Mode	Manual / Schedule / Motion / Alarm
Recording Setting	Independent Setting Per Channel
Online / Offline Playback	YES
■ QUICK SEARCH	
Search Interface	Graphical Design for Easy Operation
File Preview	6 Playback Intervals Selectable
■ OTHERS	
Channel Naming	YES
Remote Backup	YES
Auto Rearrange Database	YES
Pre-/Post- Alarm Recording	Max. 60 Seconds
E-Map	Support BMP Image Format Import
Alarm Sound	Customize 4 Sets

\* The specification is subject to change without notice.

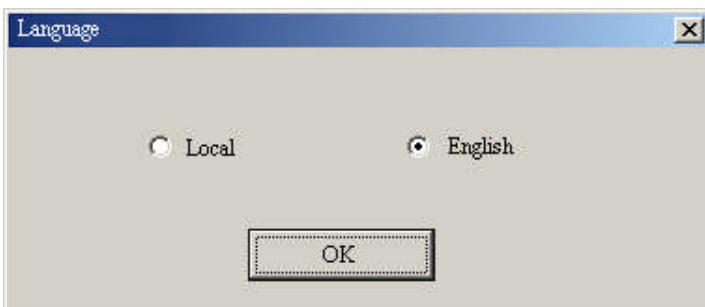
## 3. GETTING STARTED



### 3.1 Install Software

Place the attached CMS disc into the CD-ROM drive, and install the program into your PC. Follow the on-screen instructions to finish the installation process, and a CMS shortcut icon  will be shown on the desktop.

### 3.2 Log Into CMS Software


- Connect your PC to the Internet or LAN.
- Click the CMS shortcut on the desktop. Choose the language, **Local** or **English**.



- Key in default username (**admin**) & password (**admin**), and press  button to log into CMS Software or press  to cancel.



### 3.3 Network Connection

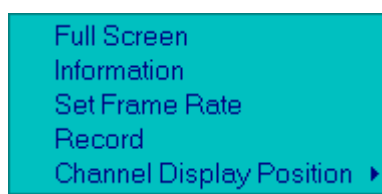
Press  on the main panel and click "Network" menu list. You can set all the connection details for each channel. For detailed network settings, please refer to section "9. NETWORK" at page 22.

# 4. MAIN OPERATION PANEL

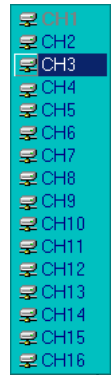
After logging into CMS software, you will see a similar window as following:



Right-click on the live image of any connected channel, and you'll see the window shown as below:



Right-click on the live image of 2CH video server, and you'll see the window shown as below:


















- **Full Screen:** Choose this function to get full-screen channel display.
- **Information:** Choose this function to get detailed information of the selected channel on the screen. (IP address / Transfer type / Decode type / Frame rate / Quality / Image size / Online user number)
- **Set Frame Rate:** Set FPS value for the selected channel according to your network bandwidth, number of channels connected and your specific demand.
- **Record:** Choose this function to start recording.
- **Channel Switch:** If the selected channel is 2CH video server, you can choose this function to switch the channel.
- **Channel Display Position:** Choose this function to swap the channel display position.  
For example, if you want to swap the display position between CH1 and CH3, choose "Channel Display Position" on CH1 to show the channel selection list, and move the cursor to choose CH3 as shown above. The positions for CH1 and CH3 are swapped later.

## 4.1 Main Panel Icon Explanation

- Main Panel Icons Under Live Mode








Icon	Explanation	Icon	Explanation
	<b>Settings:</b> Press this button to enter the setting page of CMS software.		<b>Sequence Start / Stop:</b> Press this button to start / stop sequence display mode.
	<b>Record Log:</b> Press this button to enter the quick event search and playback page of CMS software.		<b>1 cut:</b> Press this button to show 1-cut display.
	<b>Connect All:</b> Press this button to connect to all the connected channels.		<b>4 cut:</b> Press this button to show 4-cut display.
	<b>Disconnect All:</b> Press this button to disconnect all the connected channels.		<b>8 cut:</b> Press this button to show 8-cut display.

	<b>Record All:</b> Press this button to record all the connected channels.		<b>9 cut:</b> Press this button to show 9-cut display.
	<b>Stop recording All:</b> Press this button to stop recording for all the connected channels.		<b>16 cut:</b> Press this button to show 16-cut display.

Icon	Explanation	Icon	Explanation
	<b>Lock Window:</b> Press this button to cover the window display. To quit the window-locked mode, enter the user name and password to unlock*.		<b>Map:</b> To briefly show the locations of preset surveillance devices on the map
	<b>Full Screen:</b> To maximize the screen		<b>Clock:</b> To show the current time
	<b>Minimize:</b> To minimize the window	 (Yellow)	<b>Audio On:</b> To turn on the live audio
	<b>Close:</b> To close the window	 (Black)	<b>Audio Off:</b> To turn off the live audio
	<b>1 ~ 16 Channels:</b> When the color of the channel number is green, it means the channel is not connected. Press the channel button to connect.		<b>Volume:</b> To adjust the live audio volume
	<b>1 ~ 16 Channels:</b> When the color of the channel number is red, it means the channel is connected. Press the channel button to disconnect.		

**\* Note:** For the security consideration, the administrator can lock the window after he/she leaves the PC. When other users want to use CMS software, they can unlock the window by using their own accounts. The operations they're allowed to use will depend on the account authority level (High / Normal / Guest) they used to unlock. For details about each authority level, please refer to section "7.1 User Account" at page 13.

• Main Panel Icons Under Playback Mode

Icon	Explanation	Icon	Explanation
	<b>Group Control:</b> Control all the playback channels		<b>Fast Rewind:</b> To fast rewind the playback video
	<b>Snapshot:</b> Take a snapshot of the image that will be saved in the specified destination		<b>Playback:</b> To playback
	<b>Stop:</b> To stop playback		<b>Fast Forward:</b> To fast forward the playback video
	<b>Pause:</b> To pause playback		



## 4.2 Main Panel - Status

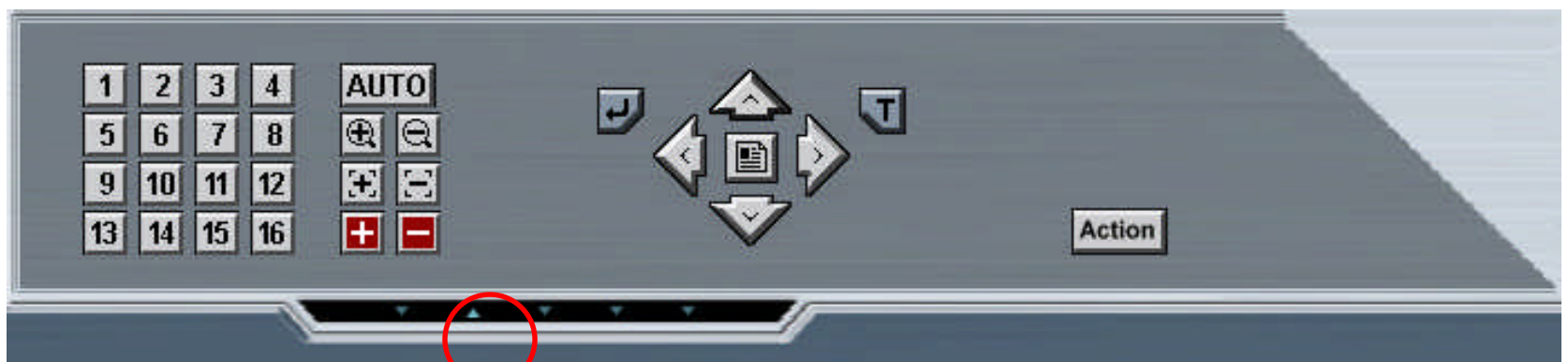
In this "Status" panel, you can see all the connected channel status information.















- **Channel / Time / Event:** In this window, you can get basic information (channel, time, event type) of all events.
- **Hard Disk Spent Space:** Show the percentage of hard disk spent space.
- **Network Loading:** Show the percentage of network loading.

## 4.3 Main Panel – PTZ Command

Choose one of the PTZ channels on CMS main panel with your mouse, and press "PTZ command" button to enter the DVR control panel of the selected channel.



- **Preset Point:** A preset position is a pre-defined camera view that can quickly and easily be viewed. In the PTZ control mode, click one of the 16 preset points to go to the specific preset point.
- **Auto:** Press this button to start / stop the auto pan or sequence mode (depend on the setting in the PTZ menu). In the auto pan mode, the live view will rotate through the selected preset positions in a set order or in sequence. In the sequence mode, the live view will automatically display the view of preset positions in a set order at set intervals.
- **Zoom In**  / **Zoom Out** : Press this button to zoom in / zoom out the PTZ camera.
- **Focus +**  / **Focus -** : Press these buttons to adjust the focus of the PTZ camera.
- **Zoom In Full**  / **Zoom Out Full** : Press this button to have maximum zoom in / zoom out the PTZ camera.
- **Up / Down / Left / Right:** Press  /  /  /  to move the cursor up / down / left / right.
- **Menu:** Press  button to enter the PTZ main menu
- **Turbo:** Click  button to speed up menu selection or the control of the PTZ camera under CMS software. You are allowed to change the turbo steps from 1 to 10. Ex: If you activate the TURBO function and set the value of the turbo step as 3, then when you press one of the button up/down/left/right, one mouse click will function as clicking 3 times.

- **Action / Preset:**

Press **Action** button and then press one of the **1** ~ **16** buttons to go to the preset point.


Press **Preset** button and then press one of the **1** ~ **16** buttons to set the preset point.

#### 4.4 Main Panel – DVR Command

Choose one of the DVR channels in CMS main panel with PC mouse, and press “DVR command” button to enter the DVR control panel of the selected channel.



- **Channel:** Click one of the DVR channel number to view the live screen.
- **Channel Display Mode:** Click / / to show 4-cut / 9-cut / 16-cut DVR channel display mode.
- **+ / -:** Press or button to change the setting in the menu.
- **Digital Zoom:** Press button to enlarge the picture of the selected channel.
- **Search:** Press button to enter the DVR search menu. In the search menu, you can view the time for all the events recorded under different situations and play the file you want, or search any specific events by event or time and directly play the file you find.
- **Record:** Press button to activate the manual record function of the selected channel.
- **Stop:** Under the playback mode, press button to stop playback.
- **Pause:** Under the playback mode, press button to pause playback.
- **Fast Rewind:** Under the playback mode, press button to fast rewind.
- **Playback:** Press button to start playback the latest recorded file.
- **Slow Playback:** Under the playback mode, press button to slow playback.
- **Fast Forward:** Under the playback mode, press button to fast forward.
- **Enter:** Press button to confirm the setting.
- **Up / Down / Left / Right:** Press “ / / / to move the cursor up / down / left / right.
- **Menu:** Press button to enter the DVR main menu.

- **Turbo:** Click  button to speed up menu selection or the control of the PTZ camera under CMS software. You are allowed to change the turbo steps from 1 to 10. Ex: If you activate the TURBO function and set the value of the turbo step as 3, then when you press one of the button up/down/left/right, one mouse click will function as clicking 3 times.


## 4.5 Main Panel – Color Setting

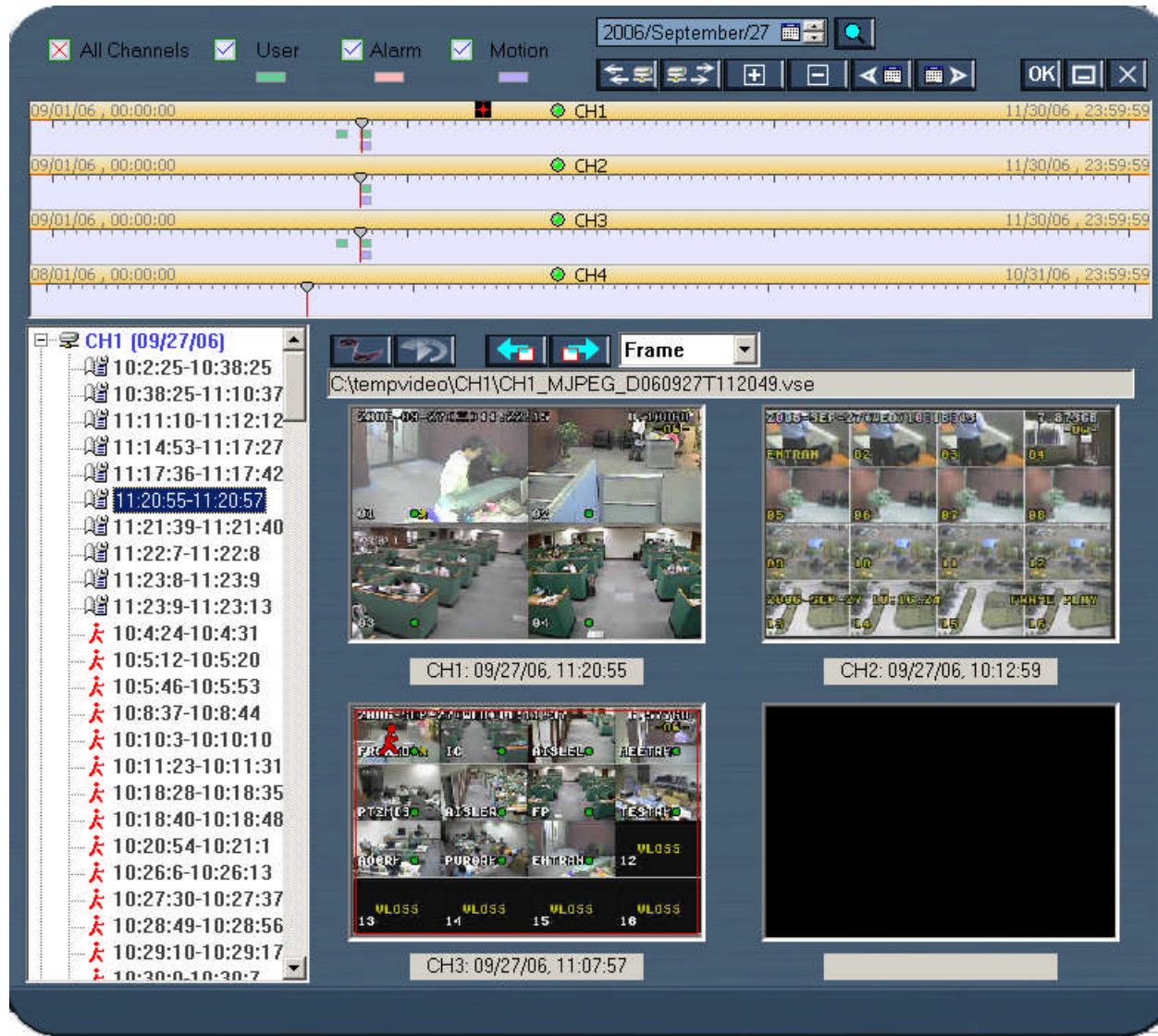
Choose one of the channels in CMS main panel with PC mouse, and press “Color Setting” button to enter the color-setting panel of the selected channel.



- **Channel:** Show the channel number of the selected channel.
- **Camera:** Select one of the cameras of the selected channel from the drop-down list.
- **Brightness / Contrast / Hue / Saturation:** Set the value of the brightness / contrast / hue / saturation of each camera.
- **Get:** Click this button to get the current values of the brightness / contrast / hue / saturation setting.
- **Set:** Click this button to confirm the values of the brightness / contrast / hue / saturation setting for the selected camera.
- **Set all:** Click this button to confirm the values of the brightness / contrast / hue / saturation setting for all cameras of the selected channel.

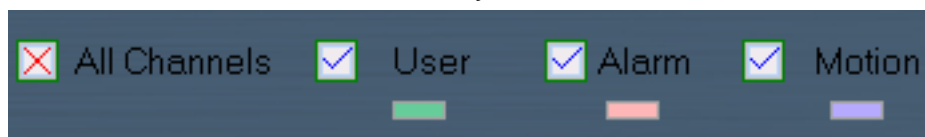
# 5. RECORD LOG

Press record log  button on the main panel to enter the quick event search and play the recorded video. You will see a similar record log window shown as below:




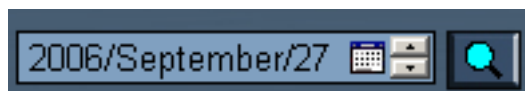
**Type of Record Log:**

Choose to show different record logs (User Record / Alarm Record / Motion Record) identified by colors for all channels or selected channel only.

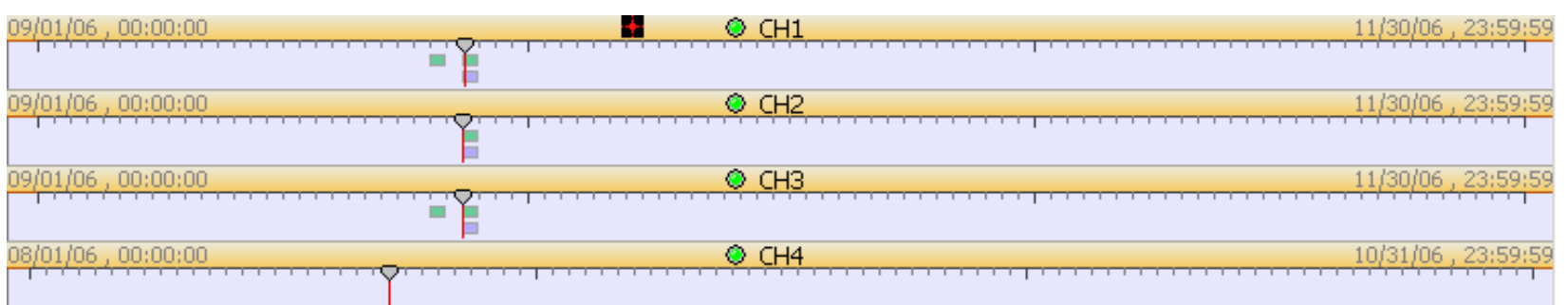














USER: Green / ALARM: Pink / MOTION: Purple

**Date of Record Log:** Choose the date and press  button to query the record log.



**Status Bar of Record Log:** Press and drag  indicator to the specific time that has record logs.



Icon	Explanation	Icon	Explanation
	<b>Time Zoom In / Time Zoom Out:</b> Press these buttons to zoom in / zoom out the time interval (60 days / 30 days / 7 days / 24 hours / 1 hour)		<b>Play:</b> Press this button to playback the selected video clip.
	<b>Prev. Time Interval:</b> Press this button to show the previous time interval.		<b>Prev. Frame:</b> Press this button to show the previous frame picture.
	<b>Next Time Interval:</b> Press this button to show the next time interval.		<b>Next Frame:</b> Press this button to show the next frame picture.
	<b>Prev. 4 Channels:</b> Press this button to show the previous 4 channels.		<b>OK:</b> Press this button to confirm the setting and close the window.
	<b>Next 4 Channels:</b> Press this button to show the next 4 channels.		<b>Minimize:</b> Press this button to minimize the window.
	<b>View:</b> Press this button to preview the screen of the selected video clip		<b>Close:</b> Press this button to close the window.


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Tips: To select multiple record logs, you can use "Shift" or "Ctrl" key on your PC keyboard.

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## 6. SETTING OVERVIEW

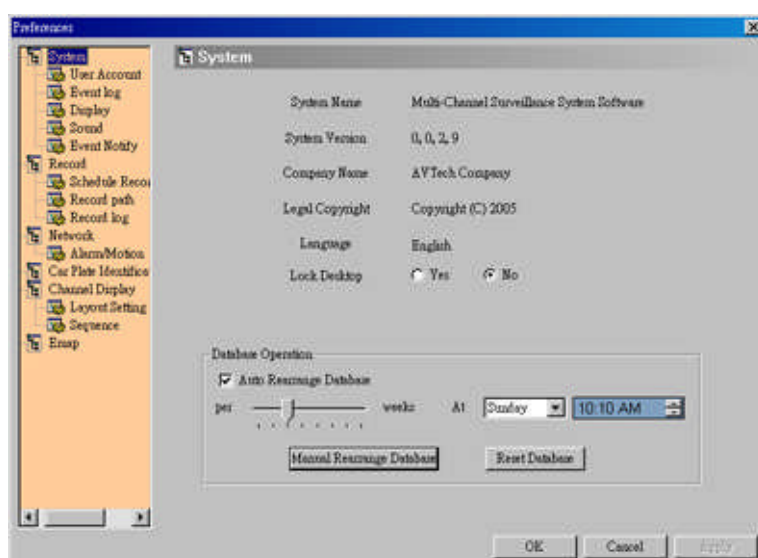
### 6.1 Function List

Press  on the main panel, and a setup window “Preferences” will show with the following functions included for you to configure CMS software. For detailed function description, please refer to chapter 7 ~ 11.

Main Menu	Sub-menu	Explanation
◎ System	System	View the general information of this software, and set up database rearrangement.
	User Account	View, create, edit or remove the information of all user accounts (ID / name / job title / authority / password / telephone / E-mail).
	Event Log	View all the event logs in the log view, or customize the event logs you want to see.
	Display	Set some general display settings (text / date / de-interlace / de-blocking / watermark).
	Sound	Set sound notifications under 4 different situations, and customize the sound file for each situation (alarm / motion / hard disk full / no signal).
	Event Notify	Send alarms respectively for 4 different situations via E-mail or FTP, and make related settings.
◎ Record	Schedule Recording Time	Set the four recording type, pre-/post-alarm recording, alarm/motion schedule and hard disk overwrite function
	Record Path	View and set the file path for saving snapshots and recorded data, or just save the data in the default folder (“tempvideo” / “tempavi” / “temppicture” in the C drive.
	Record Log	View the entire record logs and all the information of the recording, such as the event type (user / alarm / motion), recording channel, start time, end time, recording file path, reserve and error.
◎ Network	Network	Set all the connection details for each channel and decide whether to use the connection or not. Such as IP, port, protocol, AV option, user name, password, car plate identification...etc.
	Alarm/Motion	Set motion sensitivity, the motion detection area, and alarm sensitivity for the alarm or motion-trigger function.
◎ Car Plate Identification	Car Plate Identification	View the information list of the car plate identification (channel / car number / time / owner / picture).
◎ Channel Display	Layout Setting	Set the channel display mode of each channel (4-cut / 6-cut / 9-cut / 16-cut).
	Sequence	Set different sequence groups for the sequential channel display. Customize duration time and layout setting of each channel.
◎ Emap	Emap	Customize E-map for easy management.

## 7. SYSTEM

In this menu list, you can view or edit the general information of this program, user accounts, event logs, display settings, sound settings and event notifications as described below.



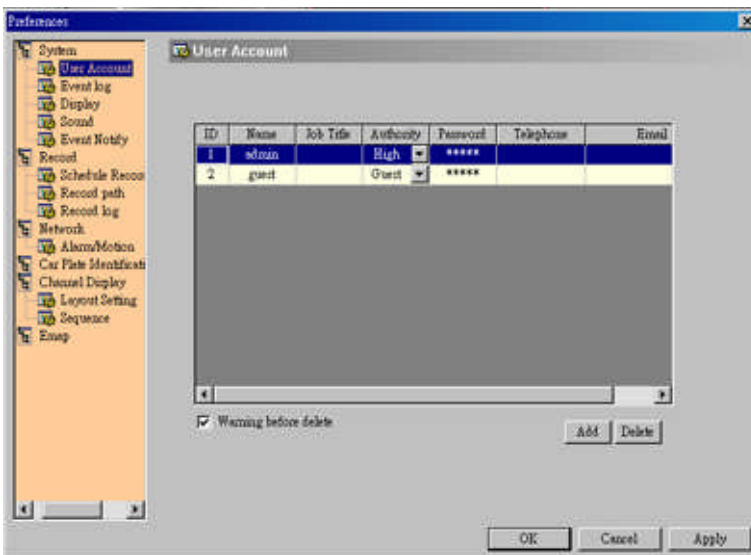
In “System”, you can view the general information of this software and make some settings as described below:

- 1) System Name  
Display the name of this software.
- 2) System Version  
Display the current version used in this software.
- 3) Company Name  
Display the name of the software provider.
- 4) Legal Copyright  
Display the legal copyright.
- 5) Language  
Display the current language used in this software.
- 6) Lock Desktop  
Lock this application so that no one can return back to Windows® desktop. This can prevent any one from shutting down the PC or disconnecting the network.
- 7) Database Operation  
Select to regularly/manually rearrange the database, or clear all the data in the database.



Function	Description
Auto Rearrange Database	To automatically rearranging the database, check the check box and select how long (1 to 8 weeks) and when the database will be rearranged.
Manual Rearrange Database	To manually rearrange the database, press this button to immediately perform this operation.
Reset Database	To clear all records in the database, press this button.

## 7.1 User Account

In “System” → “User Account”, you can view, create, edit or remove the information of all user accounts.



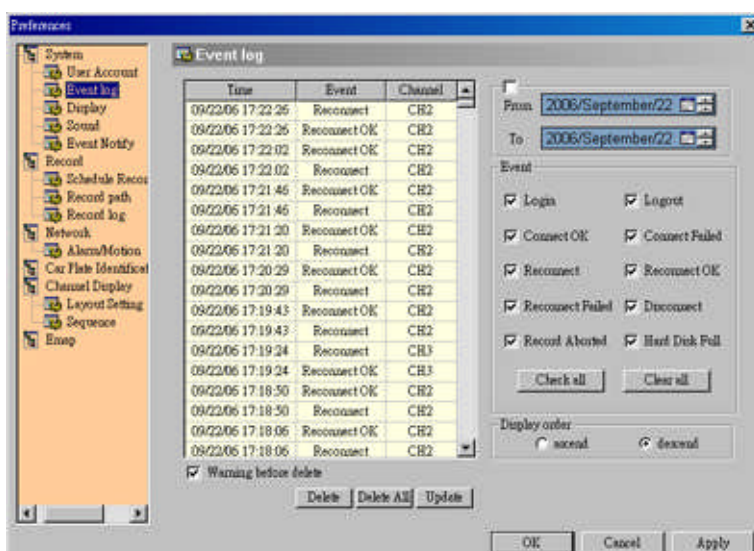
Each account must be assigned an authority level to enable different operations:

Authority Level	Operation
High	Allow all operations on the main panel
Normal	Except  (Settings) and  (Record All), allow all the operations on the main panel
Guest	Only allow viewing live images, and connecting / disconnecting channels

- To create a new user account, press “Add” button to add one more row in the detailed account view, and enter the setting by double-clicking the column you want to edit.
- To edit the current user account, select the account you want to change, and edit the setting by double-clicking the desired column.
- To remove the current user account, select “Delete” button.
- To prompt before account deletion, check “Warning before delete” in case you accidentally delete any account.

## 7.2 Event Log

In “System” → “Event Log”, you can view all the event logs in the log view, or customize the event logs you want to see. All the event logs are displayed by default.





Customize the event logs you want to see:

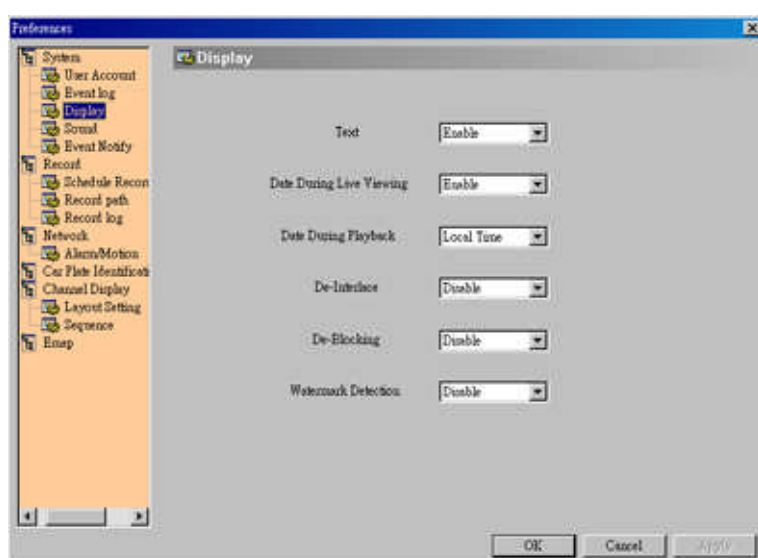
- To view the event logs during a specified time, enable the time search function by checking the checkbox above “From” column, and select a time range in “From” and “To” columns.
- To view specific event logs, check the events you want in “Event” section.
- To arrange the time order of the event logs, select the radio button “ascend” or “descend” in “Display order” section.

When the customized settings are made, press “Update” to refresh the log list.

To delete a log, press “Delete”; to quickly clear all logs, press “Delete All”. To prompt before log deletion, check “Warning before delete” in case you accidentally delete any log.

## 7.3 Display

In “System” → “Display”, you can set some general display settings.



### 1) Text

Select whether to display text for each channel: Enable / Disable.

### 2) Date During Live Viewing

Select whether to display the date and time under the live mode: Enable / Disable.

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**Note:** Though this option is set to “Enable”, the date and time will not be displayed under the live mode unless “Text” option is also set to “Enable”.

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### 3) Date During Playback

Select whether to display the date and time under the playback mode: NTP Server Time / Local Time / Disable.

---

**Note:** Though this option is set to “Enable”, the date and time will not be displayed under the playback mode unless “Text” option is also set to “Enable”.

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### 4) De-Interlace

Select whether to reduce the vibration of the paused picture: Enable / Disable.

### 5) De-Blocking

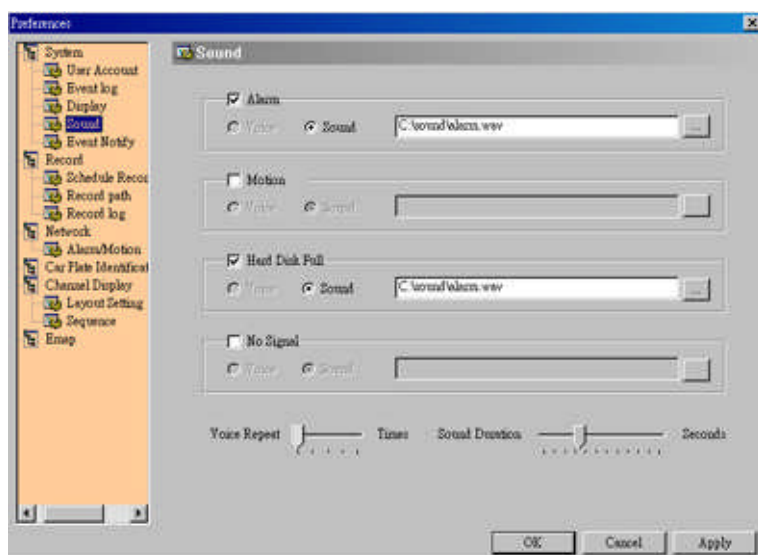
Select whether to reduce the video mosaic phenomenon: Enable / Disable.

### 6) Watermark Detection

Select whether to prove the authenticity of the backup video: Enable / Disable.

## 7.4 Sound

In “System” → “Sound”, you can select to make a sound notification under 4 different situations, and customize the sound file for each situation.



Step 1: Select a situation for which you want to make a sound notification from Alarm / Motion / Hard Disk Full / No Signal options, and assign an alarm sound file.

---

**Note:** The supported format of the sound file is “WAV”.

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Step 2: Set “Sound Durations” from **5 ~ 60** seconds by dragging and dropping the slider.

Step 3: Press “Apply”.

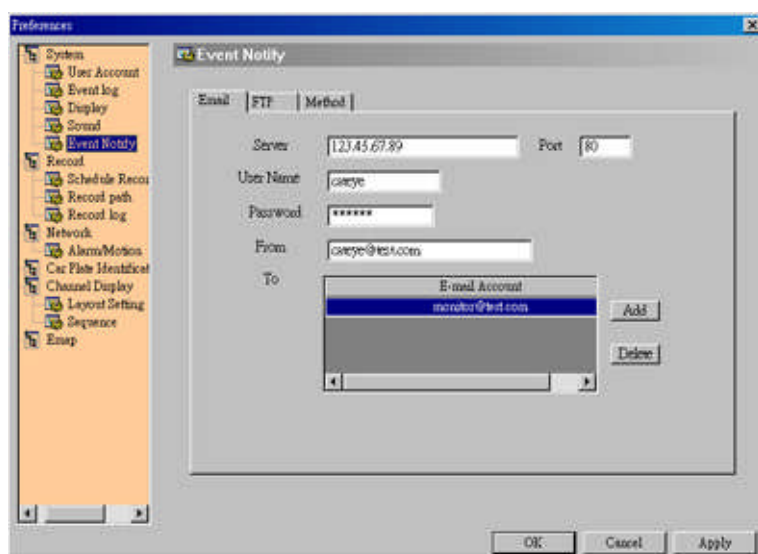
## 7.5 Event Notify

In “System” → “Event Notify”, you can select to send alerts respectively for 4 different situations via E-mail or FTP, and make related settings.

There are 3 tabs in this setting window: Email, Ftp and Method.

### Email

If you want to send alerts via E-mail, select this tab and complete the following settings:



#### 1) Server

Enter the IP address or domain name used by your E-mail exchange server.

2) Port

Enter the port number to be used.

3) User Name

Enter the user name used by your E-mail account.

4) Password

Enter the password used by your E-mail account.

5) From

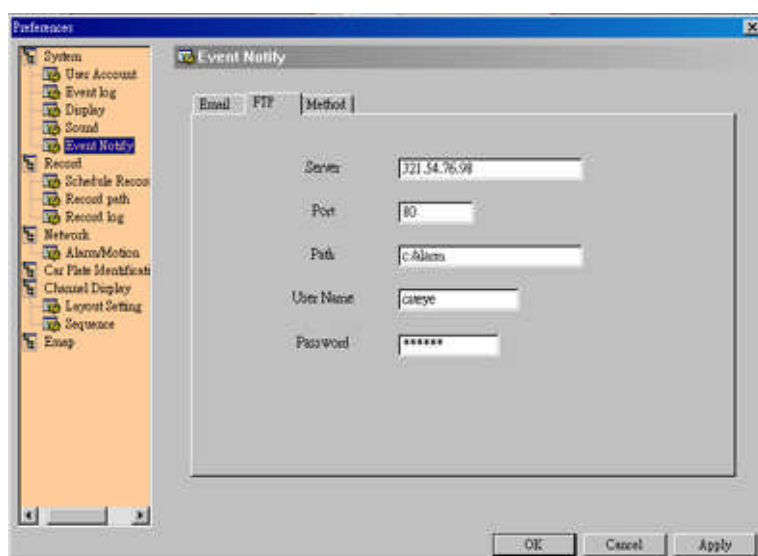
Enter your E-mail address.

6) To

Enter the E-mail address to which you want to send alerts. Press “Add” to key in the E-mail address, or “Delete” to remove the targeted E-mail address.

## FTP

If you want to upload alerts to FTP, select this tab and complete the following settings:

1) Server

Enter FTP IP address or domain name.

2) Port

Enter the port number to be used.

3) Path

Assign a specific location to save alerts in the FTP site.

4) User Name

Enter FTP user name.

5) Password

Enter FTP password.

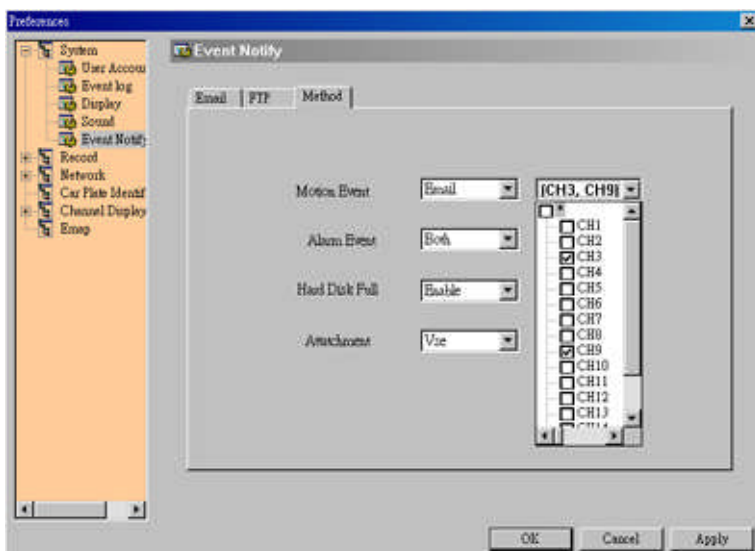
## Method

In this tab, you can select the way to send alerts for Motion Event / Alarm Event / Hard Disk Full, and select to send alert attachments as “AVI” for “VSE” format.

---

**Note:** You also need to finish the setting of the chosen method to take effects.

---



#### 1) Motion Event

Select a method (Email / Ftp / Both) to send alerts, or not to send alerts (Disable) for this event from the drop-down list. If you select a method, the channel selection drop-down list will be enabled for you to choose a channel / several channels / all channels to send alerts.

#### 2) Alarm Event

Select a method (Email / Ftp / Both) to send alerts, or not to send alerts (Disable) for this event from the drop-down list. If you select a method, the channel selection drop-down list will be enabled for you to choose a channel / several channels / all channels to send alerts.

#### 3) Hard Disk Full

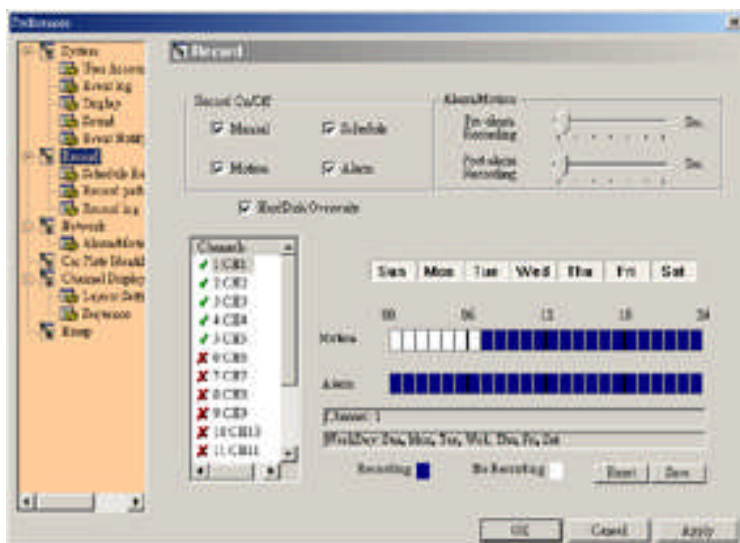
Select to send alerts (Enable), or not to send alerts (Disable) for this event from the drop-down list.

#### 4) Attachment

Select to send alerts in AVI (Avi) or VSE (Vse) format.

# 8. RECORD

In this “Record” menu list, you can set four recording types, pre-/post-alarm recording and alarm/motion schedule, as described below:

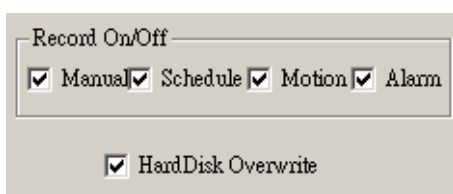


Tips: To select multiple channels in “Channel” column for setting all at once, you can use “Shift” or “Ctrl” key on your PC keyboard.

### 1) Manual / Schedule / Motion / Alarm / Hard Disk Overwrite:

There are four types of recording: Manual / Schedule / Motion / Alarm. Please check the box respectively to enable the different recording type.

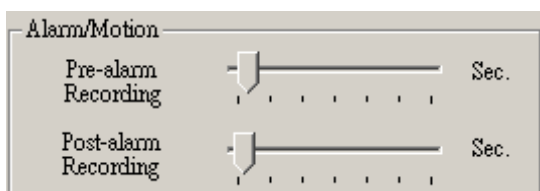
Checks the box of “HardDisk Overwrite” to activate the HDD-overwrite function. When the HDD is full under “HardDisk Overwrite” recording mode, the previous recorded data will be overwritten without notice. Under “HardDisk Overwrite” mode, this device will clear 8GB data from the oldest for continuous recording once the HDD is full.



### 2) Pre-/Post-alarm Recording

Select the pre-/post-alarm recording time from **0 ~ 60** seconds.

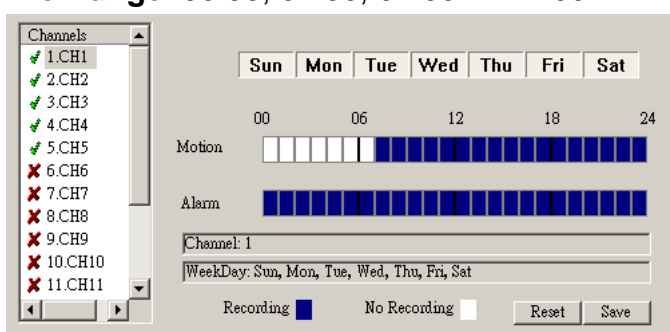
When this pre-recording function and the motion/alarm recording functions are both activated, the PC will record the data for the specified seconds before/after any alarm/motion is triggered.



### 3) Alarm/Motion Schedule

You can set a customized alarm/motion recording schedule by setting the channel, weekday and time.

- **Channel:** CH1 ~ CH16
- **Weekday:** Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday
- **Time Range:** 00:00, 01:00, 02:00 ... 24:00.

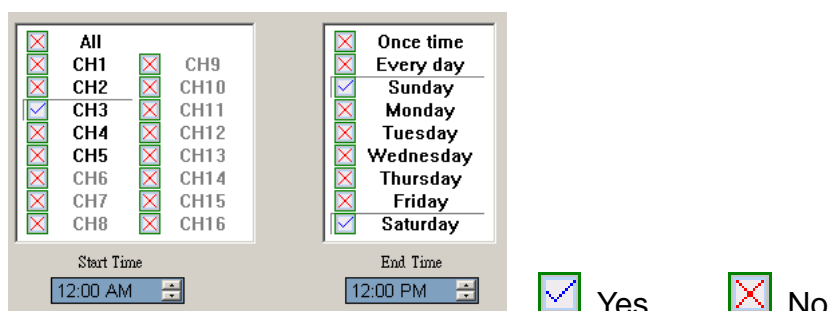


recording
  no recording
  connection enabled
  connection disabled

## 8.1 Schedule Recording Time

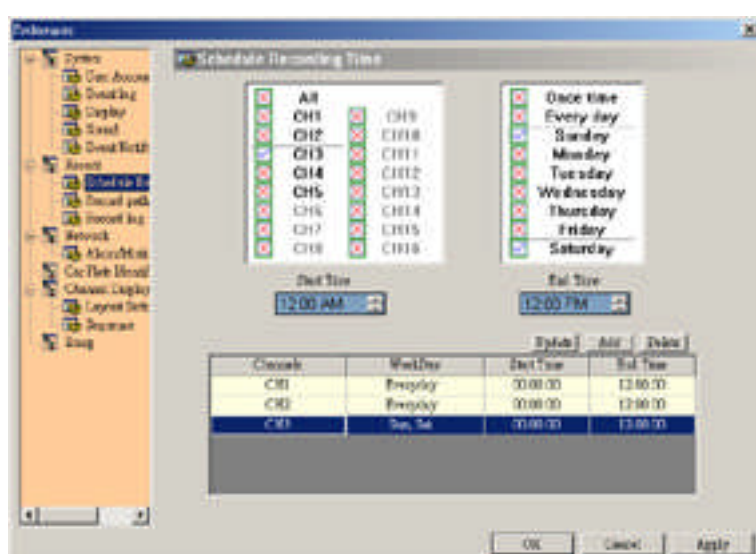
In “Record” → “Schedule Recording Time”, you can set different time & date, and customize the recording schedule for each channel. Select one channel ID to edit the recording date, start time and end time. Then, press “Add” to create a customized recording schedule list as shown below.

- **Channel:** CH1 ~ CH16 and all
- **Weekday:** Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, Ever day and Once time.



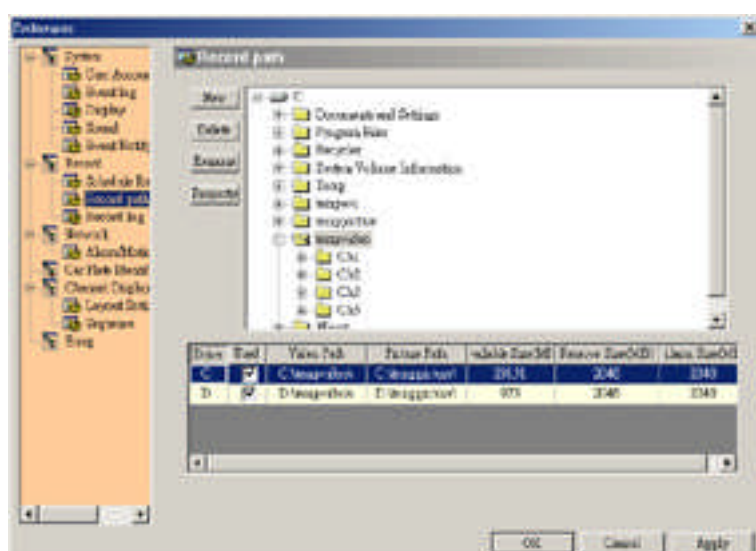
**Note:** For the option “Once time”, the scheduled recording time cannot exceed one day.

- **Start / End Time Range:** 12:00AM ~ 12:00PM
- **Add:** Press “Add” after setting channel, weekday and time to create a scheduled recording.
- **Update:** Press “Update” after modification of the scheduled recording.
- **Delete:** Press “Delete” to delete the selected scheduled recording.



## 8.2 Record Path

In “Record” → “Record Path”, you can view and set the file path for saving snapshots and recorded data, or just save the data in the default folder (“tempvideo” / “tempavi” / “temppicture”) in the C drive.

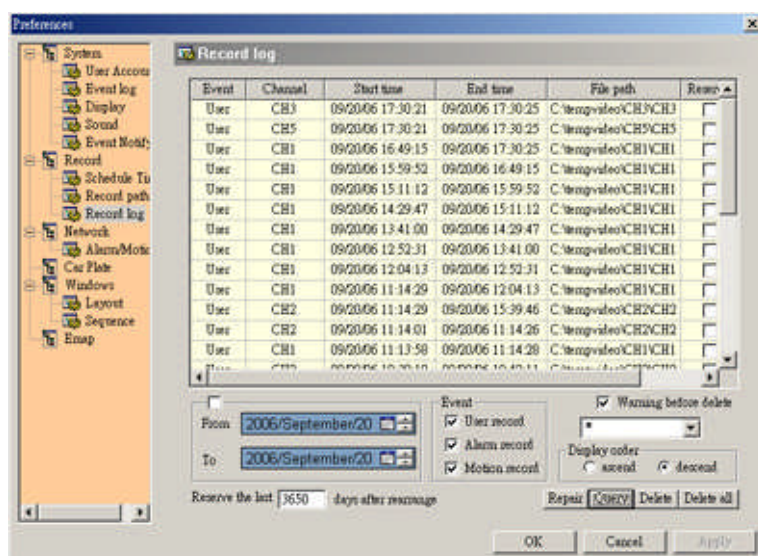


If you check both boxes of “Used” for the C & D drives, once the C drive is full, the system will save the recorded data in the designed folder of the D drive.

- **Folder “temvideo”:** Manual / scheduled / motion / alarm recording video files
- **Folder “tempavi”:** Temporary AVI files
- **Folder “temppicture”:** Snapshot pictures

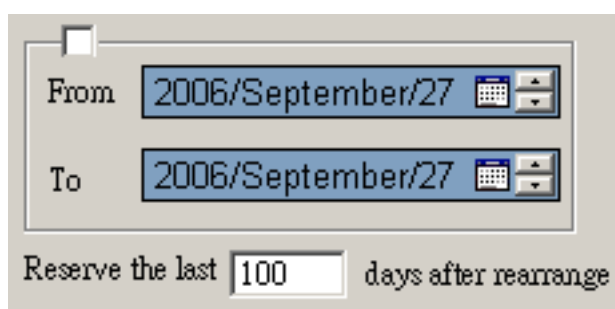
### 8.3 Record Log

In “Record” → “Record Log”, you can see all the record logs and all the information of the recording, such as the event type (user / alarm / motion), recording channel, start time, end time, recording file path, reserve and error.

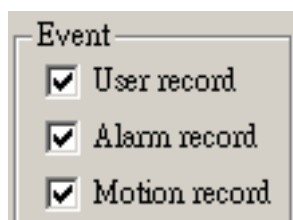


**Tips:** To select multiple record logs, you can use “Shift” or “Ctrl” key on your PC keyboard.

- **Set the date and time of the record log search:** Select the start time and the end time.
- **Set the file reserve days:** Set the file reserve days after rearranging the database.

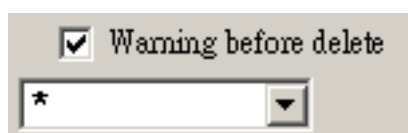


- **Search the event type of the record log search:** Select the event type by checking the box.



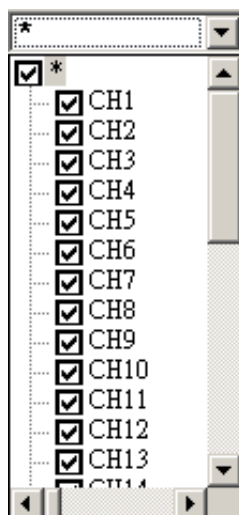
- **Set the channel of the record log search:** Select the channel by checking the channel boxes from the drop-down list.

- **Record log deletion warning:** Activate the warning for the record log deletion by checking the box, and select the channels you want to receive warning from the drop-down list.



Warning before delete

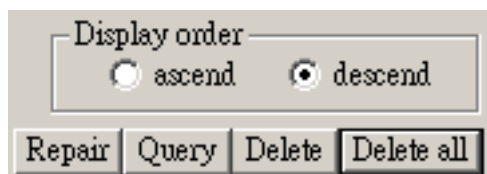
\* ▾



\* ▾

- \*
- CH1
- CH2
- CH3
- CH4
- CH5
- CH6
- CH7
- CH8
- CH9
- CH10
- CH11
- CH12
- CH13
- CH14

- **Set the display order of the record log search:** Select “ascend” or “descend” display order.
- **Repair:** If one of the record log files has error, press “Repair” button to repair the file.
- **Query:** Press “Query” button to list the record logs after finishing all the settings of the record log search.
- **Delete:** Press “Delete” button to delete a record log.
- **Delete all:** Press “Delete all” button to delete the entire record logs.



Display order

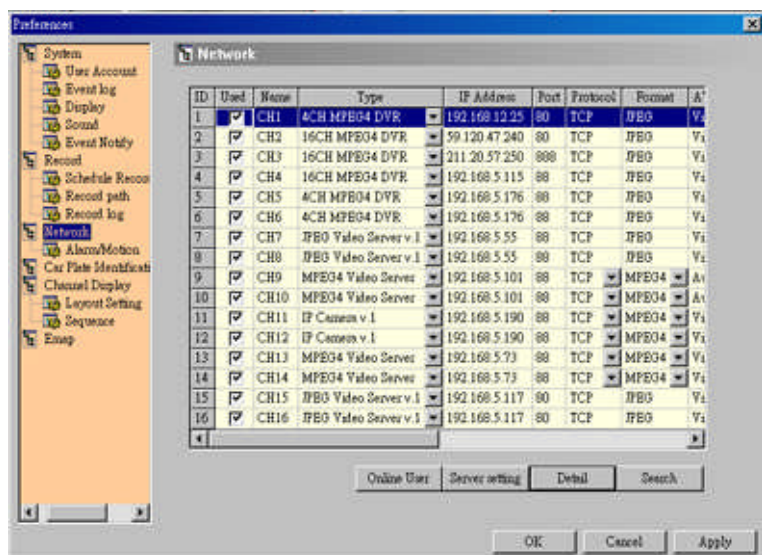
ascend  descend

Repair Query Delete Delete all



# 9. NETWORK

In this menu list, you can set the connection for each channel and decide whether to use the connection or not.



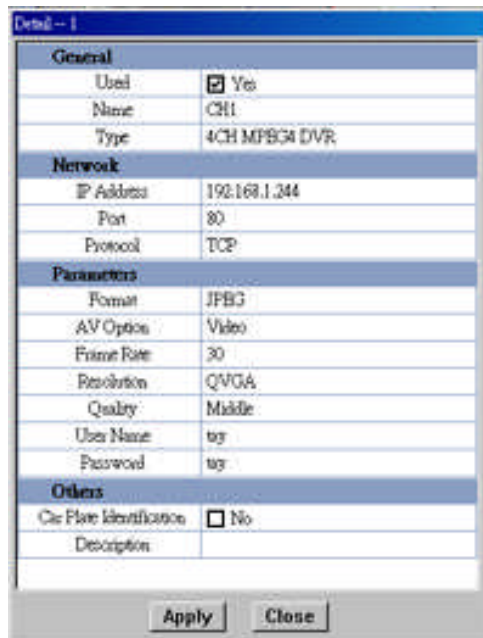
The function of each button is described below:

1) Detail

Press this button to set the connection setting for each channel.

Select one ID number to highlight the whole row to be edited. Then, press “Detail” to show the connection detail window as shown below.

**Tip:** You can also quickly pop up the connection detail window by double-clicking the ID number.



Edit the connection details by clicking the right columns, and key in all the necessary information:

Function	Description
General	
Used	Check the checkbox to enable the connection setting for the specified channel, or uncheck to disable the connection setting.
Name	Display the name of the channel. The default name is the channel number, or you can rename the channel by clicking this column.
Type	Select the device type from the drop-down list. You must choose the right type for the connection to take effects.

Function	Description
<b>Network</b>	
IP Address	Enter the IP address for the surveillance device.
Port	Enter the port number.
Protocol	Select the correct protocol from the drop-down list if shown. The available options shown vary depending on the device type you choose.
<b>Parameters</b>	
Format	Select the correct image format (JPEG / MPEG4) from the drop-down list if shown. The available options shown vary depending on the device type you choose.
AV Option	Select the correct audio / video setting (Video, Audio / Video, Audio) from the drop-down list if shown. The available options shown vary depending on the device type you choose.
Frame Rate	Enter the frame rate.
Resolution	Select the correct resolution from the drop-down list. The available options shown vary depending on the device type you choose.
Quality	Select "High" / "Middle" / "Low" from the drop-down list.
User name	Enter the user name to log in remotely.
Password	Enter the password to log in remotely.
<b>Others</b>	
Car Plate Identification	Check the checkbox to enable the car plate identification for the specified channel, or uncheck to disable this function.
Description	Enter the additional note for this device, or leave this column blank.

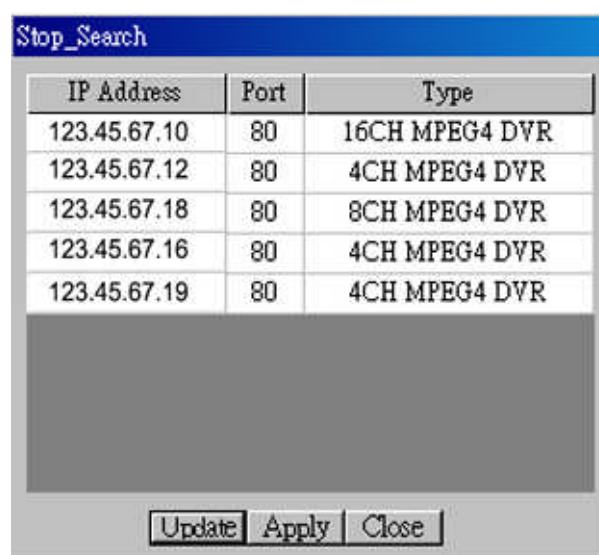
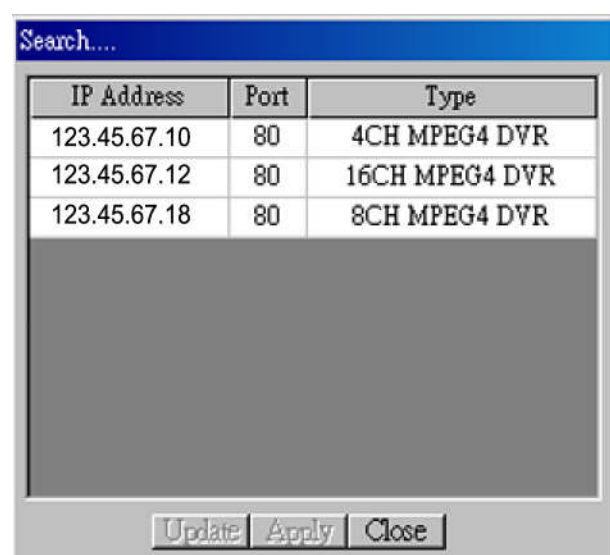
Press "Apply" to save the settings and "Close" to return to "Network" window.

## 2) Search

Press this button to search the current available surveillance devices and their respective IP addresses and port numbers under the same domain. The search window will pop up and list the devices found and their respective IP addresses and port numbers.

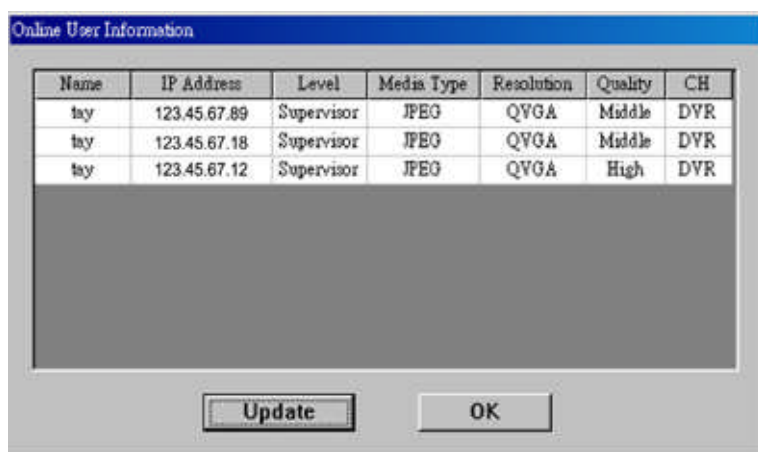
To quickly apply the device found and its respective IP address and port number to the selected channel, press "Apply" and "Close". "Type", "IP Address" and "Port" columns will be immediately updated for the selected channel. Then, you can press "Detail" to show the connection detail window and edit other settings.

To search again, press "Update" to refresh the search list. To close this pop-up window, press "Close".



3) Online User

Press this button to show the online user information. To refresh this information, press “Update”. To close this pop-up window, press “OK”.



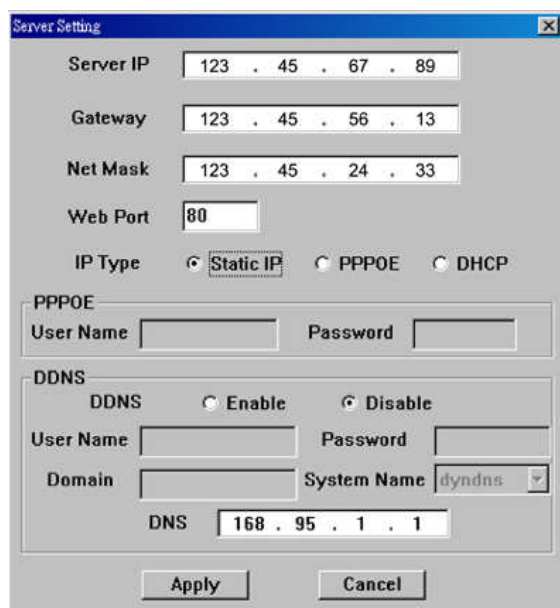

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**Note:** This button is enabled when the selected channel is connected online.

---

4) Server Setting

Press this button to view or edit the server setting for the selected channel. To save the revised settings, press “Apply”. To keep the original settings, press “Cancel”.



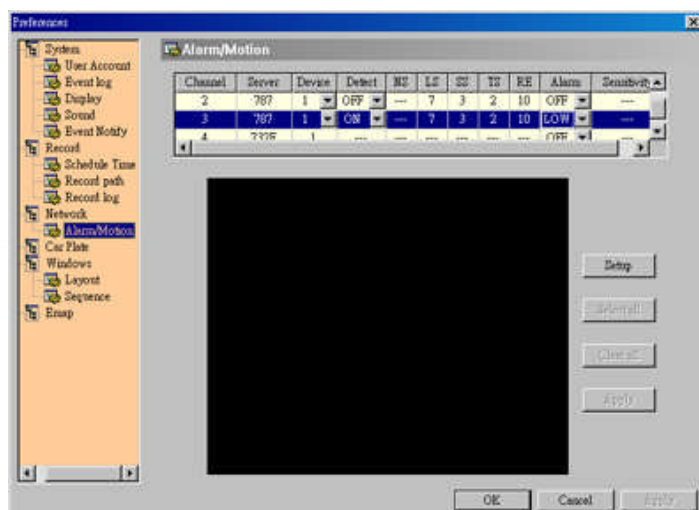

---

**Note:** This button is enabled when the selected channel is connected online.

---

## 9.1 Alarm / Motion

In “Network” → “Alarm / Motion”, you can view or edit the alarm / motion detection settings individually for the selected channel.



1) Channel

Display the channel ID.

2) Server

Display the type of the device.

3) Device

Select one device channel for which you want to enable alarm / motion detection function.

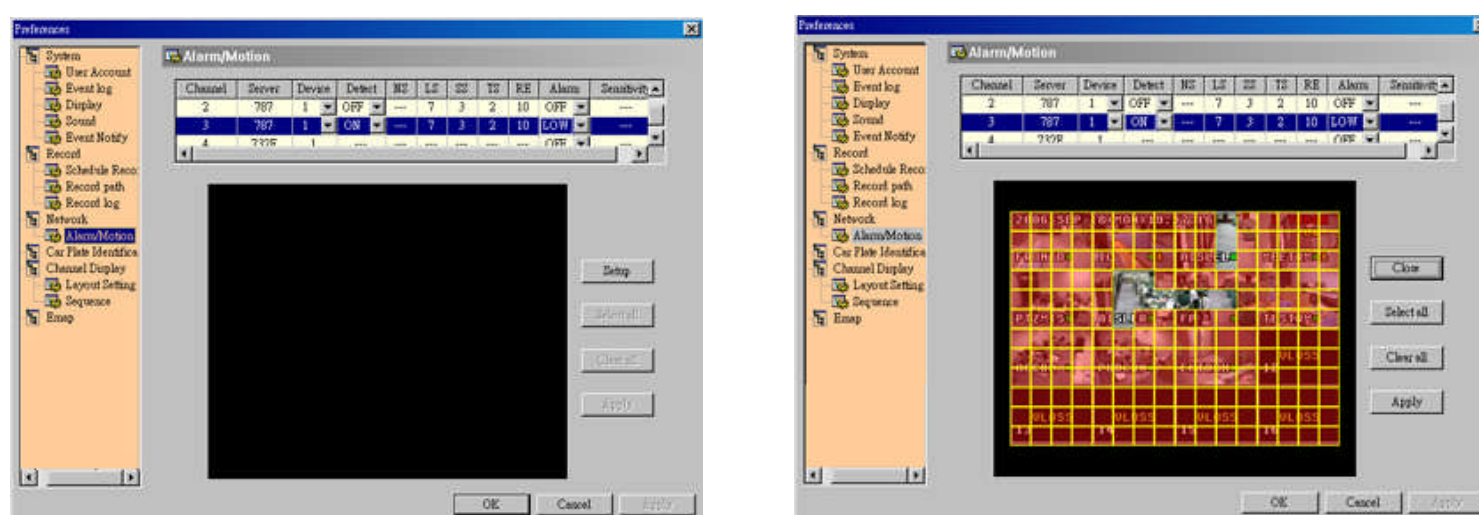
4) Detect

Select to enable (ON) or disable (OFF) the motion detection function.

If this value is set to ON, please set the motion detection area by pressing "Setup".

**Note:** Before setting the detection area, please make sure the channel you want to set is NOT showing 4- / 6- / 9- / 16-cut view, but the single-cut view, i.e. the device channel you want to set. Otherwise, the view showing in the motion detection setup area will be 4- / 6- / 9- / 16-cut view and you will not be able to set the detection area correctly. For the way to show a single device channel, please refer to "DVR Command" in the section "4.4 Main Panel – DVR Command" at page 7.

The motion detection setup area will be enabled and display the view of the selected channel. You will see a similar screen as following:



Function	Description
Close	Exit the setup mode
Select all	Set the whole area under detection
Clear all	Set the whole area undetected
Apply	Save the detection area setting

Use your mouse to set the detection area: Click the grid one by one, or drag and drop multiple grids all at once. You can also set multiple areas under detection.

5) NS / LS / SS / TS / RE

They are the parameters for the detection sensitivity.

Parameter	Suitable Device	Description
NS	MPEG4 video server	Motion Detection Sensitivity. The smaller the value, the higher sensitivity for motion detection. The default value is 3.
LS	DVR, JPEG / MPEG4 video server, IP camera	Level of Sensitivity, used to set the sensitivity of comparing two different images. The smaller the value, the higher sensitivity for motion detection. The default value is 7 (DVR, JPEG video server, IP camera) / 16 (MPEG4 video server).
SS	DVR, JPEG / MPEG4 video server, IP camera	Spatial Sensitivity, used to set the sensitivity for detecting the size of one object (the number of the grids) on the screen. The smaller the value, the higher sensitivity for motion detection. The default value is 3 (DVR, JPEG video server, IP camera) / 2 (MPEG4 video server).

Parameter	Suitable Device	Description
TS	DVR, JPEG video server, IP camera	Time of Sensitivity, used to set the sensitivity regarding how long one object stays in the detection area and triggers the recording. The smaller the value, the higher sensitivity for motion detection. The default value is 2.
RE	DVR, JPEG video server, IP camera	Reference, used to set a reference for detection. The default value is 10.

#### 6) Alarm

Select to enable (ON or High/Low) or disable (OFF) the alarm. The available options shown vary depending on the device type of the selected channel.

#### 7) Sensitivity




Choose one level of the motion detection sensitivity directly from the drop-down list only for MPEG4 video server model: Lower / Low / Normal / High / Higher.

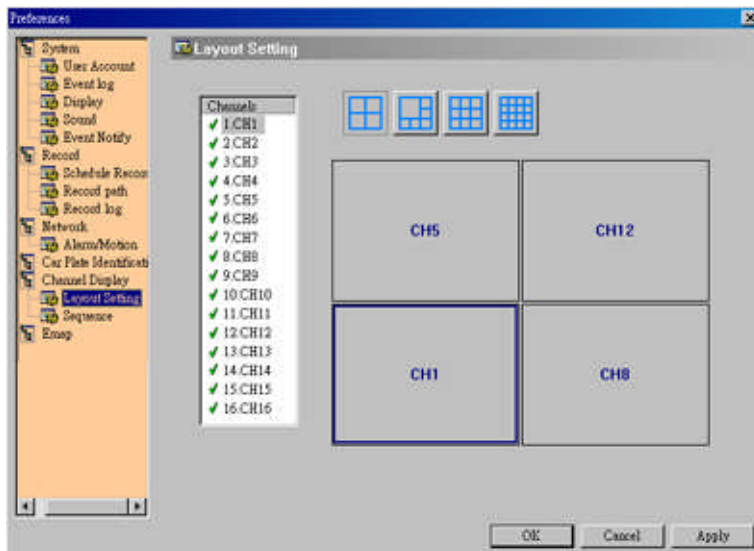
To customize the sensitivity, choose "Manual" from the drop-down list, and you can manually adjust the value for NS, LS & SS.

## 10. CHANNEL DISPLAY

In this menu list, you can select and customize how the channels are displayed and change the position of the channel.

### 10.1 Layout Setting

In “Channel Display” → “Layout Setting”, you can customize 4- / 6- / 9- / 16-cut view layout when pressing  /  /  on the main panel.




#### How to customize the view layout:


Step 1: Choose the cut view you want to customize by pressing the icon of 4- / 6- / 9- / 16-cut view.

Step 2: Drag and drop the channel ID you want to see in the chosen view layout from “Channels” column to the position you like in the view layout setting area.

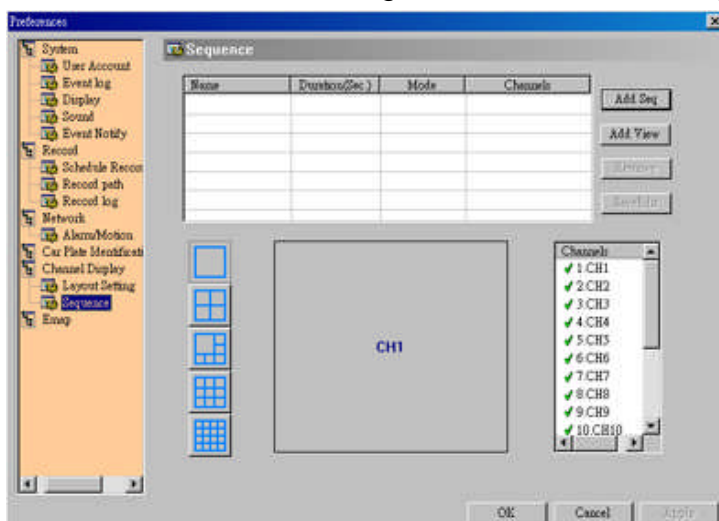
Step 3: Press “Apply” to save the setting and continue customizing another view layout. Press “OK” to confirm the changes or “Cancel” to discard the changes.

For example: I want to see CH1, CH5, CH8 & CH12 when I press  button on the main panel. So I press the 4-cut view icon to show the default/current cut view layout, drag and drop CH1 to the position I want it to show, i.e. the bottom-left corner, CH5 to the top-left corner, CH8 to the bottom-right corner, and CH12 to the top-right corner. Then, press “Apply” and “OK” to confirm the changes.

### 10.2 Sequence

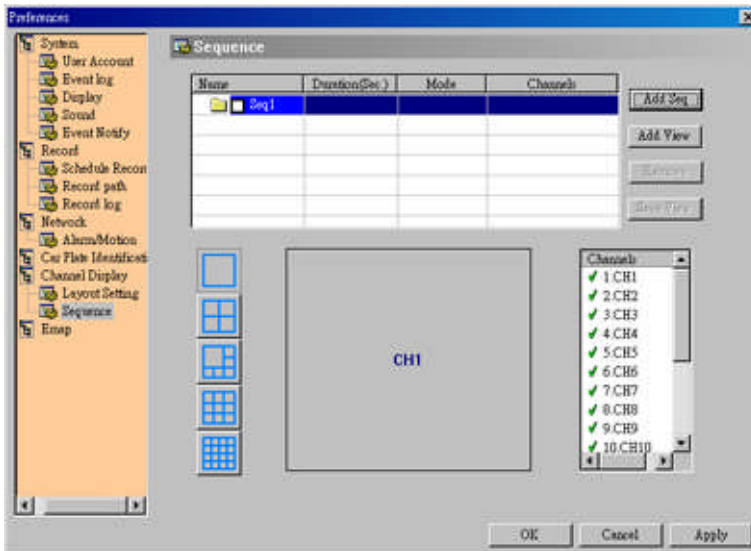
In “Channel Display” → “Sequence”, you can create a sequence group and decide to add as many sub-views as you like for your surveillance when you press  button on the main panel.

You will see a similar setting screen as the following:








## How to create a sequence group:

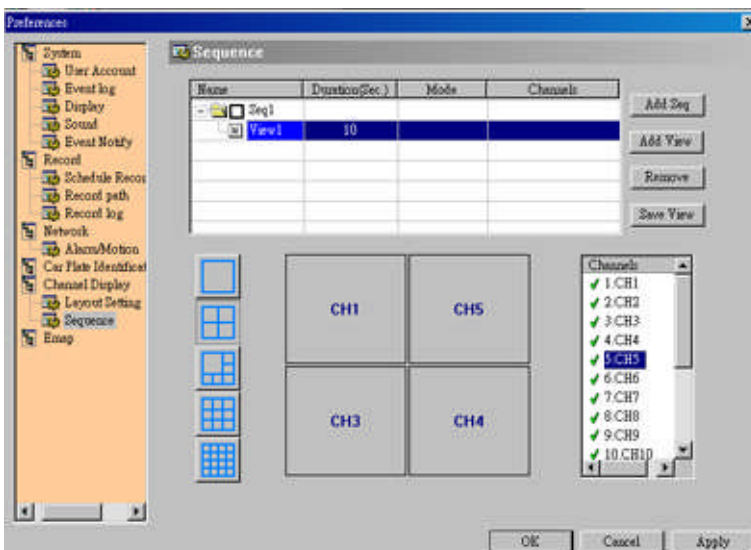
Step 1: Press “Add Seq” to create a group folder (the default name is “Seq1”) as shown below.



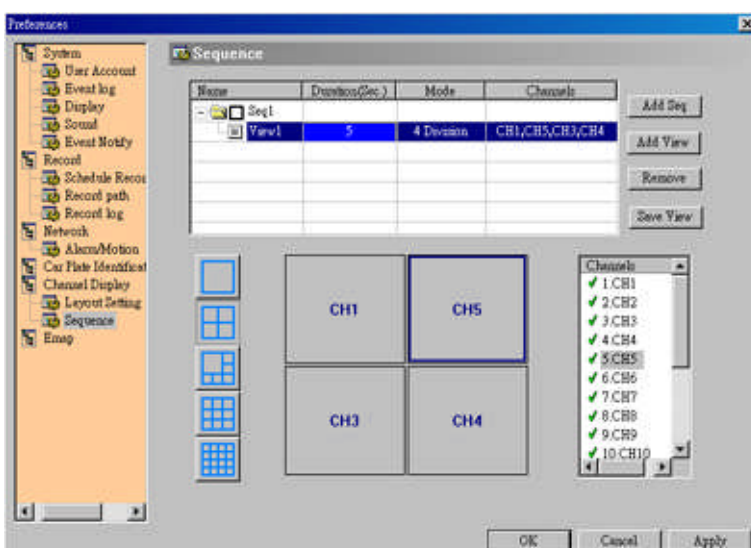
Step 2: Press “Add View” to add a view layout (the default name is “View1”) as shown below.

In the view layout setting area, select a layout from  (1-cut) /  (4-cut) /  (6-cut) /  (9-cut) /  (16-cut) buttons and customize the view layout. For the way to customize a view layout, please refer to section “10.1 Layout Setting” at page 27.

**Note:** When you press this button, “Remove” and “Save View” buttons will be enabled.

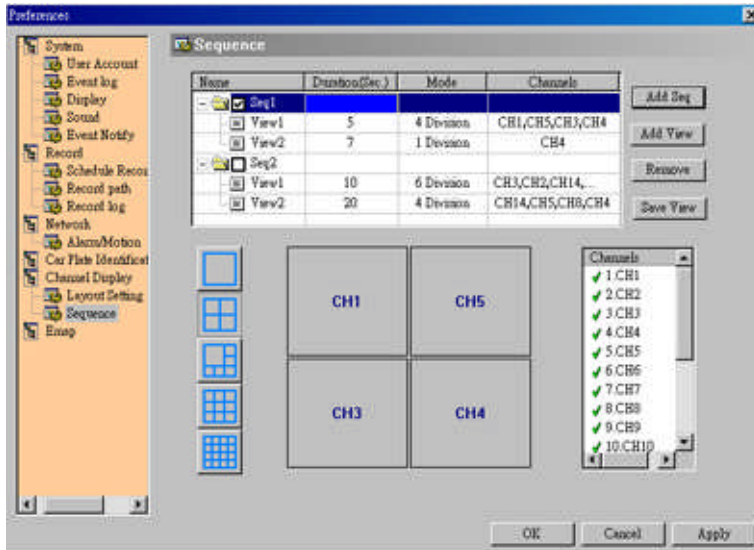



Step 3: When you finish the layout setting, press “Save View” to apply the layout to “View1”. You will see the view layout type and the channels involved.



- Step 4: Set the duration time from **5 ~ 300** seconds in “Duration(Sec.)” column by double-clicking this column. This value determines how long this view will be remained when the sequence is started.
- Step 5: If you want to set more sequence views, proceed from Step2 to Step4. If you want to remove a view or a sequence group, select the item you want to remove, and press “Remove”.
- Step 6: When you finish all the settings, press “Apply” and “OK” to accept them, or “Cancel” to discard the settings.


The example below creates 2 sequence groups with 2 views for each:



If you want to operate “Seq1” when pressing  on the main panel, please check the checkbox in front of it. The sequence will display “View1” for 5 seconds, and then “View2” for 7 seconds.



# 11. E-MAP

In this menu list, you can add a camera icon in a map to mark the approximate location of each camera for your quick reference. This map will be shown when you press  icon on the main panel. You can not only quickly check the location of each camera, but also be notified of any alarms triggered.


**Note:** This function is suitable when the connected surveillance devices are IP cameras or video servers.

Please follow the steps below to set this function:

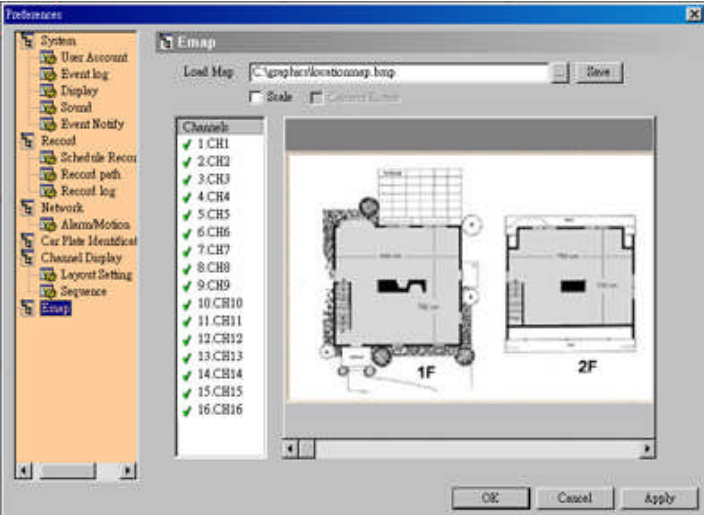
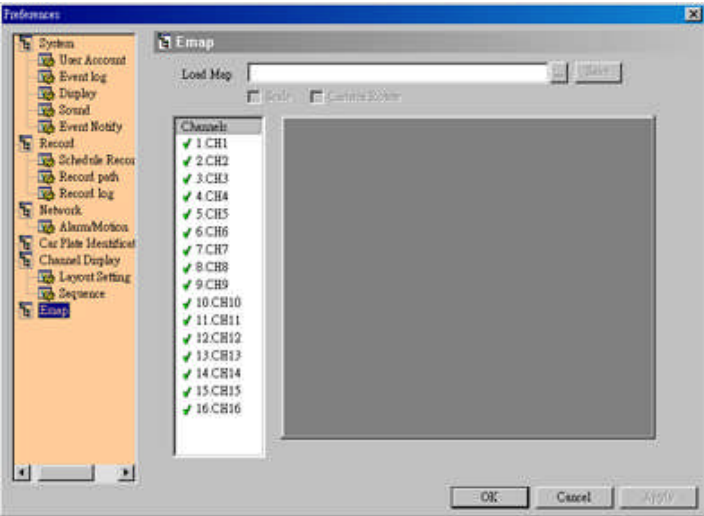
Step 1: Assign a map file.

When you choose “Emap”, you will be prompted first to assign a map file as following:





Assign a map file in “Load Map” column by pressing  button to import a map (such as a floor plan).




**Note:** The supported format for a map file is “BMP”.




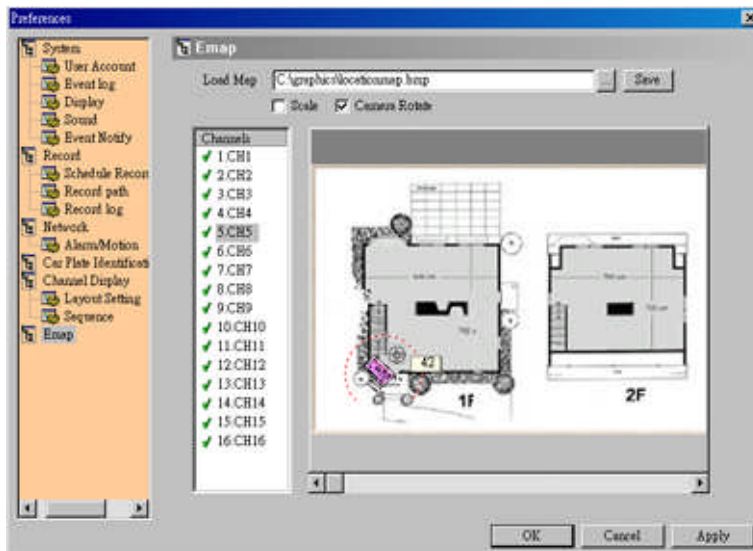
Step 2: Mark the location of the surveillance device.

From “Channels” column, drag and drop the channel ID you want to see to the map.  icon will be shown on the map. You have 2 options to use under “Load Map” column:



Button	Function
Scale	Adjust the map file to fit the map display area.
Camera Rotate	Rotate the lens of the camera icon  to face the correct surveillance direction.

When you drag one channel to the map,  indicator and the channel ID will be shown. If the location of the camera icon  is not what you want after dropping the channel, hold and drag the mouse to show  indicator, and drag the camera icon to the location you want.

For rotating the lens of the camera icon to the correct surveillance direction, please check “Camera Rotate”. Click and hold the camera icon to show  indicator and the current angle, and hold still to rotate the lens of the camera icon to face the desired direction.



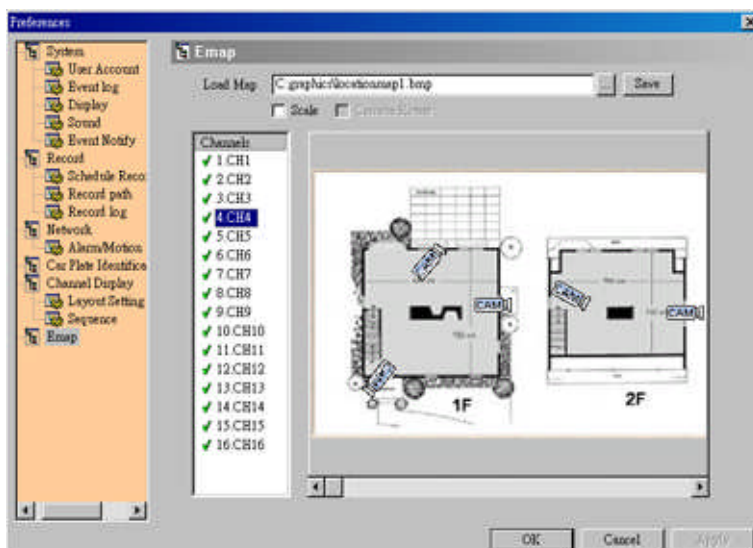
Step 3: Proceed with Step 2 as many times as needed to finish marking the camera positions.

- The camera icon in the positioning status will be shown as pink (.
- The camera icon finished positioning will be shown as light blue (.


To re-position the camera icon later, click the channel ID in “Channels” column to make the icon pink, and follow the procedure described in Step2.

Step 4: Press “Save” to save the map with the marking to another file name. The system will remember this map configuration until you set and save another map.

Step 5: Press “OK” to confirm the setting, or “Cancel” to discard the setting.



### E-map On Main Panel:

When you successfully complete E-map settings, press  icon on the bottom right corner of the main panel, and a map will show indicating the location of each camera set in "Emap" with a square icon:

- The green icon indicates no alarm is triggered.
- The blue icon indicates an alarm is triggered.

When you move the cursor over the icon, you will see the channel ID. When you click the icon, the corresponding channel will also be selected in a red frame.

