

# USER GUIDE

## UMS Multi Client (Multi Sites Monitoring Software) Version: 1.0



## TABLE OF CONTENTS

<b>UMS MULTI CLIENT (MULTI SITES MONITORING SOFTWARE)</b> .....	<b>3</b>
<b>1. Overview</b> .....	<b>3</b>
<b>2. Minimum PC requirements</b> .....	<b>3</b>
<b>3. Installing the program</b> .....	<b>3</b>
<b>4. Live Window</b> .....	<b>5</b>
4-1. Main user interface .....	5
4-2. Control buttons .....	5
<b>5. Search and Playback Window</b> .....	<b>7</b>
5-1. Main user interface .....	7
5-2. Main control panel .....	7
<b>6. Setup of UMS Multi Client</b> .....	<b>10</b>
6-1. General .....	10
6-2. Event .....	11
6-3. Record .....	12
6-3. OSD .....	13
6-4. About .....	14
<b>7. Operation</b> .....	<b>15</b>
7-1. Addition, Delete, and modify of DVR sites .....	15
7-2. Connect and Disconnect .....	18
7-2. Still-image capture during Live .....	20
7-3. Recording video on local PC during Live .....	21
7-4. Local Playback and Remote Playback .....	22
7-5. AVI Backup during playback .....	24
<b>APPENDIX: HOW TO SET NETWORK</b> .....	<b>26</b>

# UMS Multi Client (Multi Sites Monitoring Software)

## 1. Overview

The UMS Multi-Client is a multiple site monitoring client software with; video, audio, and alarm signals from the DVRs over networks. The UMS Multi-Client does not limit the number of DVR units to register.

The program displays to up 256 live videos on one display and even playback videos window on the same or another display monitor.

On the program, user may control PTZF cameras on the DVRs. By attaching a microphone and speaker system to devices on site, user may make bi-directional audio communication over the network.

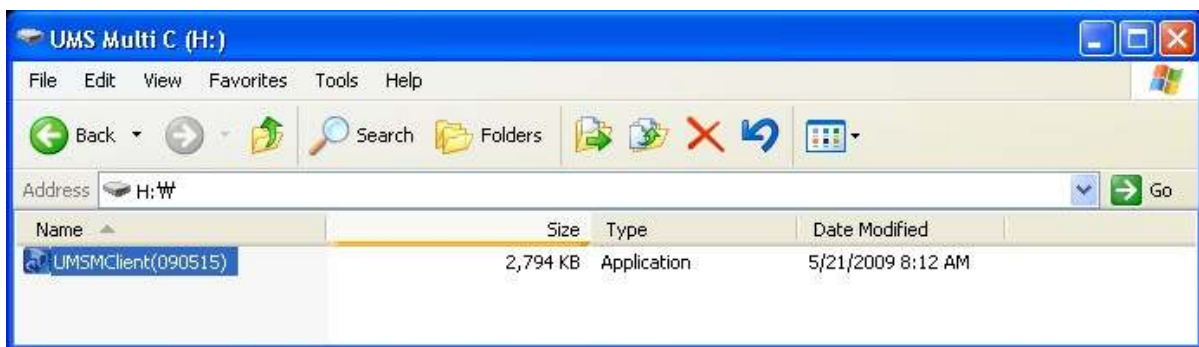
## 2. Minimum PC requirements

CPU	Intel Pentium IV 2Ghz
Memory	512MB or Higher is recommended.
VGA	64MB or Higher is recommended.
Resolution	1024x768
Disk space	10MB
OS	Windows 2000, XP Professional, XP Home, Vista (Some versions of Vista has problem in installation. Please contact your vendor for more information.)
Network	10/100Base T
Others	Direct X 8.1 or Higher

Before installing the program, check the PC specifications. The DVR remote software may not perform correctly if the PC does not meet the minimum requirements.

## 3. Installing the program

1. Insert the provided CD in the CD drive and double-click “UMSMultiClient (XXXX).exe”



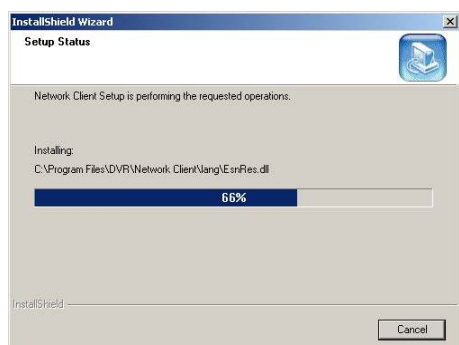
2. Select a destination folder and click “Next”.



3. Select the program folder and click “Next”.



4. The setup status screen is displayed.



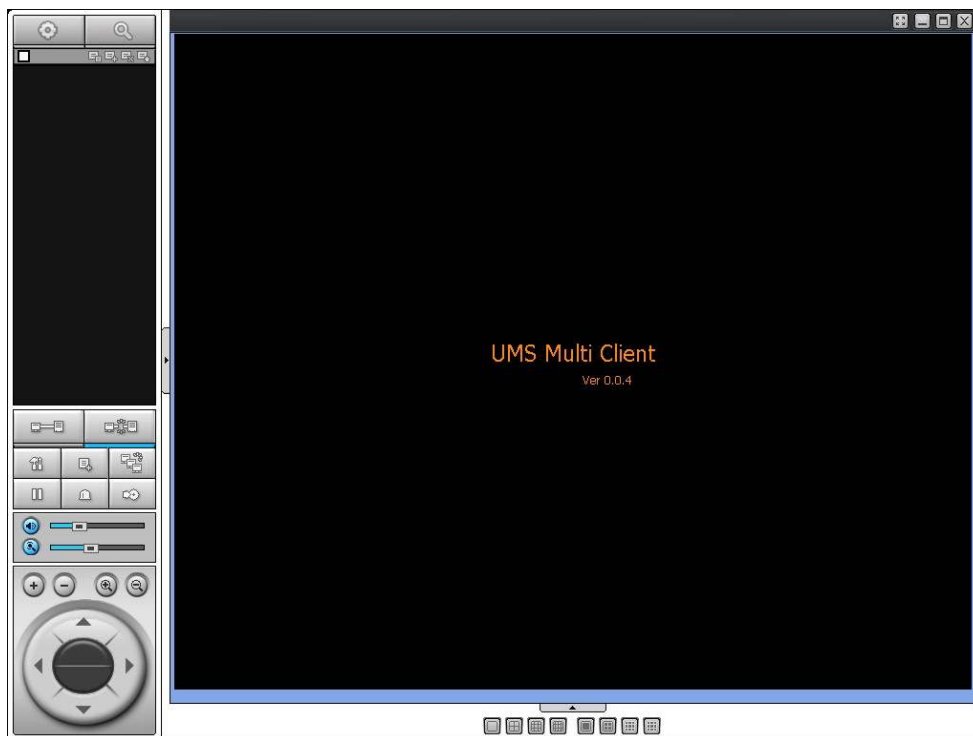
5. After the installation is completed, “UMS Multi Client” icon displays on the desktop screen.










### 4. Live Window


















When installation is completed, double click the “UMS Multi Client” icon on your desktop to start the program.

#### 4-1. Main user interface



#### 4-2. Control buttons

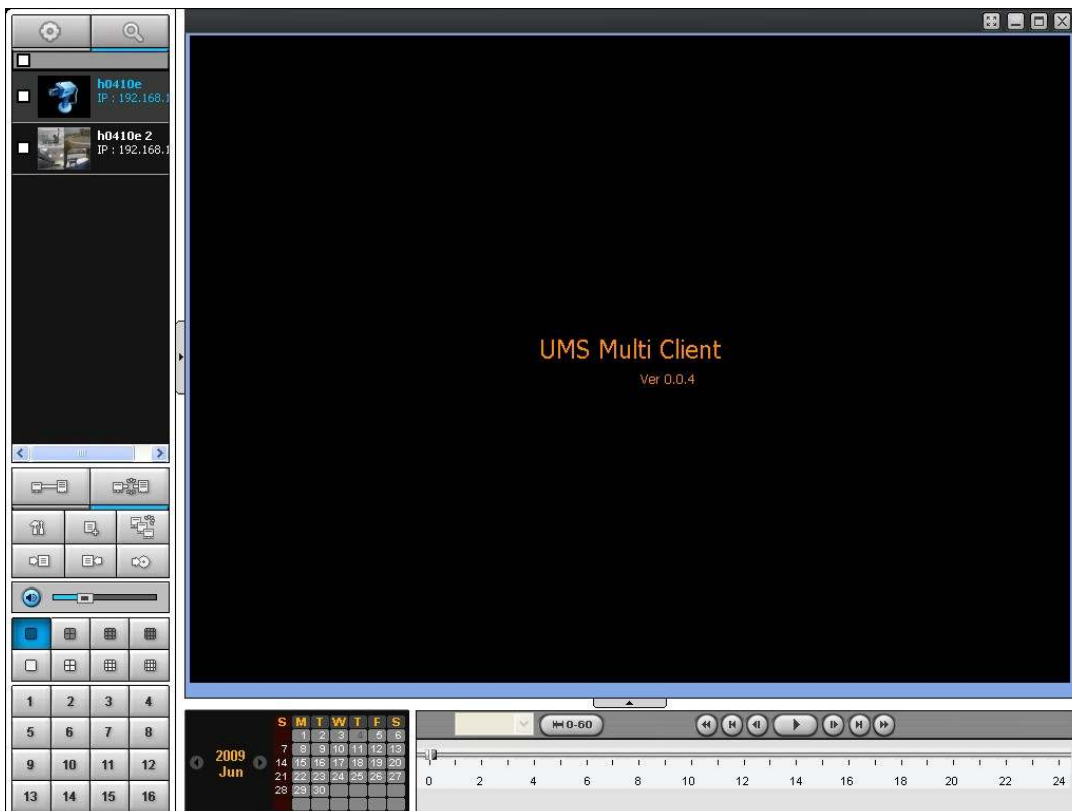
Button	Description
 LOCAL PLAYBACK	Click this icon to run a playback window to search and play videos that are recorded in local PC.
 REMOTE PLAYBACK	Click this icon to run a playback window to search and play videos that are recorded in remote DVR.
 SITE MANAGEMENT	<ul style="list-style-type: none"> <li> THUMBNAIL REFRESH: Click this icon to refresh and renew thumbnail image of every connected site.</li> <li> SITE ADDITION: Click this icon to open ‘Site Addition’ window.</li> <li> SITE DELETE: Click this icon to delete site from the index window, after disconnect a site.</li> <li> SITE MODIFY: Select the site from the index window and click this icon to open ‘Site Modify’ window.</li> </ul>

 <p>CONNECT</p>	<p>Click this icon to connect the selected site/sites.</p>
 <p>DISCONNECT</p>	<p>Click this icon to disconnect the selected site/sites.</p>
 <p>SETUP</p>	<p>Click this icon to setup configuration of UMS MULTI CLIENT.</p>
 <p>CAPTURE</p>	<p>Click this icon to capture a still image</p>
 <p>EVENT LIST</p>	
 <p>PAUSE</p>	<p>Click this icon to play/pause live video.</p>
 <p>ALARM ON</p>	
 <p>RECORD ON</p>	<p>Enable or disable recording of live video to local disk which has set in setup menu.</p>
 <p>AUDIO</p>	<p>Use the volume control bar to set the audio level.</p>
 <p>MIC</p>	<p>Use the micro phone volume control bar to set the micro phone level.</p>
	<p>User can control PAN/TILT &amp; ZOOM/FOCUS.</p> <p>  PAN left /right               TILT up/down     </p> <p>  ZOOM in/out               FOCUS in/out     </p>
 <p>CHANNEL SPLIT</p>	<p>To select the numbers of display channel/channels (Single, quad, 9 channels, and 16 channels) of highlighted site.</p>
 <p>DVR SITE SPLIT</p>	<p>To select the numbers of DVR/DVRs (1 DVR, 4 DVRs, 9 DVRs, 16 DVRs) on main display screen.</p>



## 5. Search and Playback Window













### 5-1. Main user interface





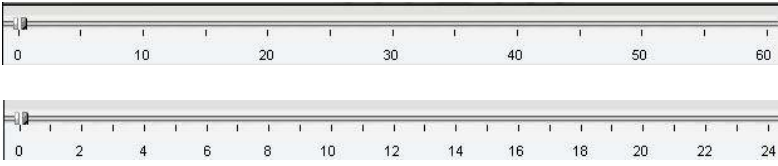

You can access to search window by clicking the search icon (Local Playback / Remote Playback) on the upper left of Live Window.




### 5-2. Main control panel

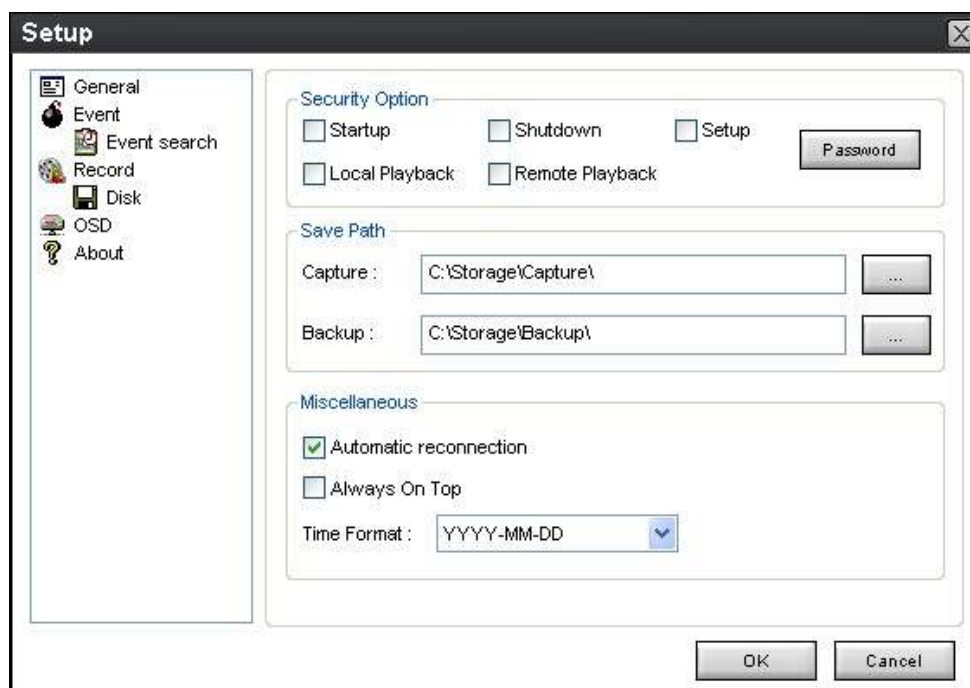
Button	Description
 LOCAL PLAYBACK	Click this icon to run a playback window to search and play videos that are recorded in local PC.
 REMOTE PLAYBACK	Click this icon to run a playback window to search and play videos that are recorded in remote DVR.

	<p>Directory window shows site/sites that are pre-registered.</p>
 <p>CONNECT</p>	<p>Click this icon to connect the selected site/sites.</p>
 <p>DISCONNECT</p>	<p>Click this icon to disconnect the selected site/sites.</p>
 <p>SETUP</p>	<p>Click this icon to setup configuration of UMS MULTI CLIENT.</p>
 <p>CAPTURE</p>	<p>Click this icon to capture a still image.</p>
 <p>EVENT LIST</p>	
 <p>MARK IN</p>	<p>Click this icon to set the beginning time for backup of the recorded video in AVI format.</p>
 <p>MARK OUT</p>	<p>Click this icon to set the ending time for backup of the recorded video in AVI format.</p>
 <p>BACKUP</p>	<p>Click this icon to backup the recorded video in AVI format.</p>
 <p>AUDIO</p>	<p><a href="#">Use the volume control bar to set the audio level.</a></p>
 <p>DVR SITE SPLIT</p>	<p>To select the numbers of DVR/DVRs (1 DVR, 4 DVRs, 9 DVRs, 16 DVRs) on main display screen.</p>
 <p>CHANNEL SPLIT</p>	<p>To select the numbers of display channel/channels (Single, quad, 9 channels, and 16 channels) of highlighted site.</p>

	<p>To select the channel to playback.</p>
	<p>The calendar shows dates with recorded video in color.</p>
	<p>To display the recorded data of selected channel or all channels on a time line scale.</p>
	<p>To change a time line scale from 24 hours to 60 minutes or vise versa.</p>
	<p>The timeline shows recorded data in color on the bar. You can adjust the time line scale and move it to the time you wish to playback. Then click the play icon to display the recorded video.</p>
	<p>Playback buttons.</p>

## 6. Setup of UMS Multi Client

Click the setup icon  to setup the configuration of UMS Multi Client software. The Setup window displays.



### 6-1. General

**6-1-1. Security Option:** Set a password for security options.

Select security options and set a password.

Then when you access any of selected functions, you need to enter the password.

You can also set the save path for capturing and backup.

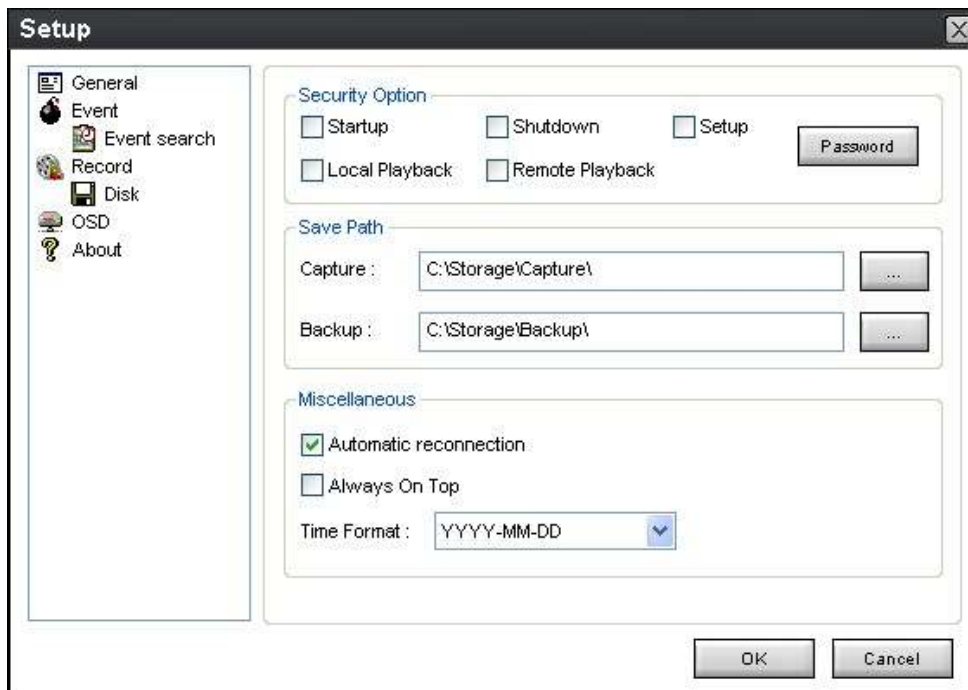
**6-1-2. Save Path:** Specify the location to save captured still image for Capture and Backup data.

### 6-1-3. Miscellaneous

**Automatic reconnection:** If a user selects this function, client S/W will automatically try to connect the finally connected IP address, after the network is disconnected.

**Always On Top:**

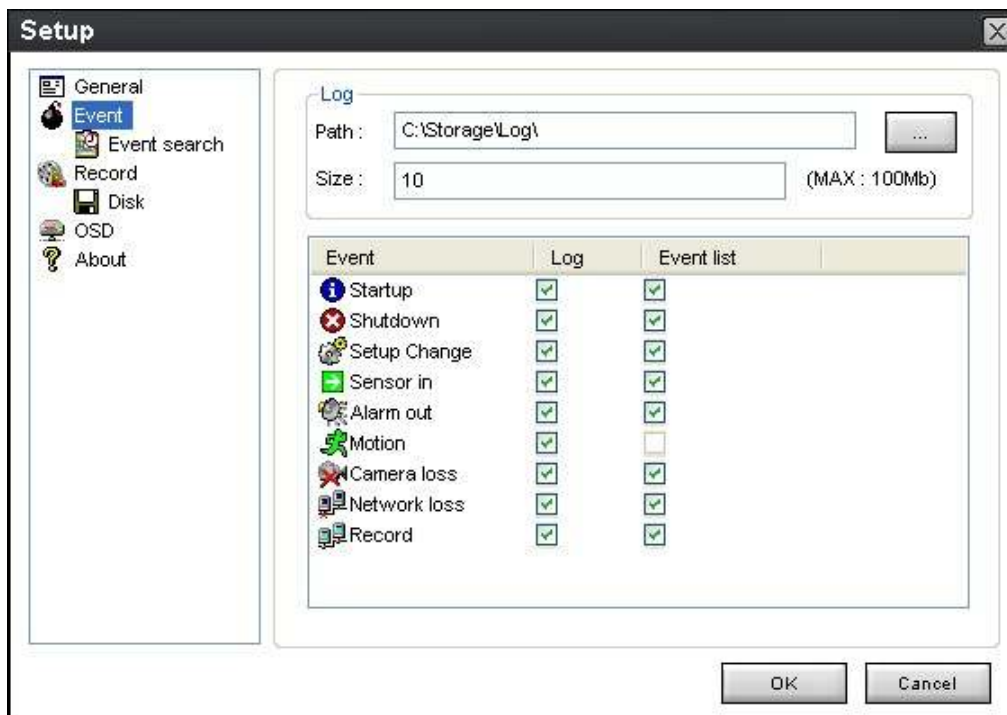
**Time Format:** Change the way the Client software displays the time.



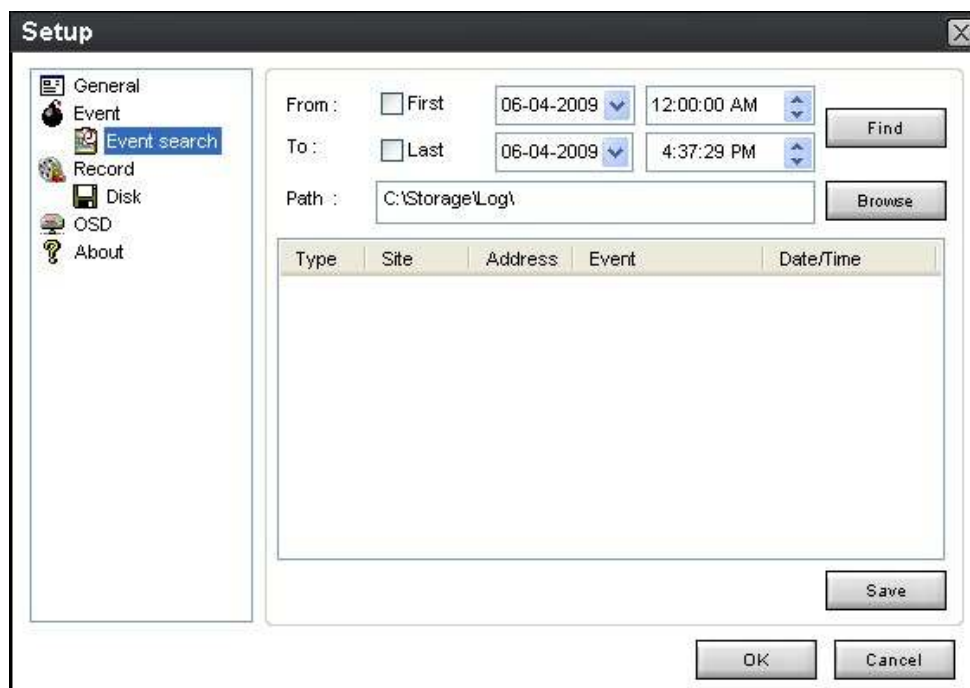
**6-2. Event**

Event log can be archived and searched.

**6-2-1. Archiving Event Log:** Specify the location to save event logs and select event to archive.



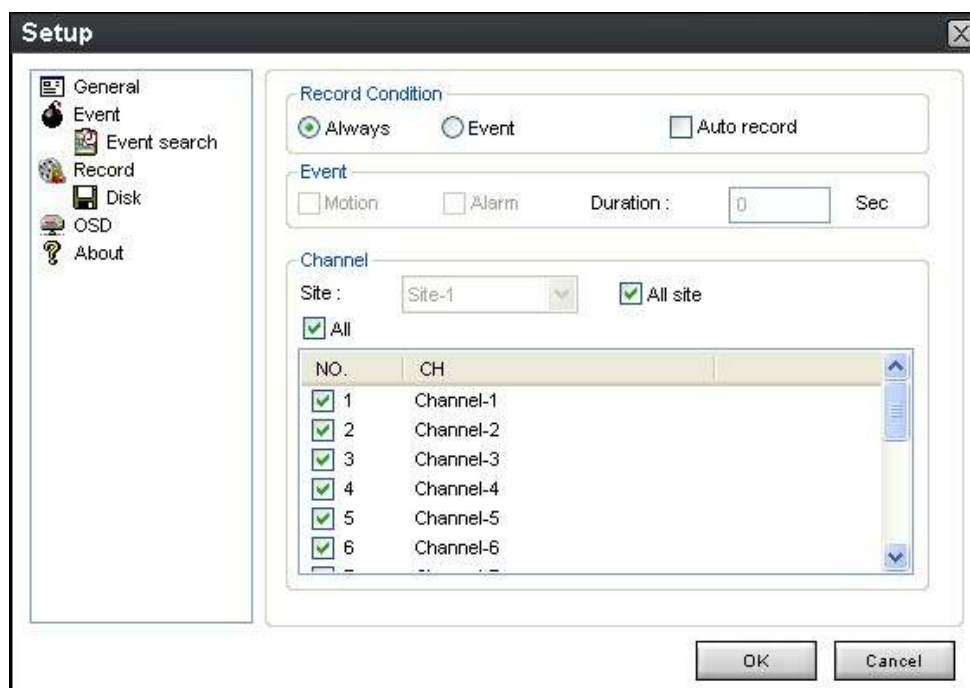
**6-2-2. Archiving Event Log:** Event log can be searched from selected time.



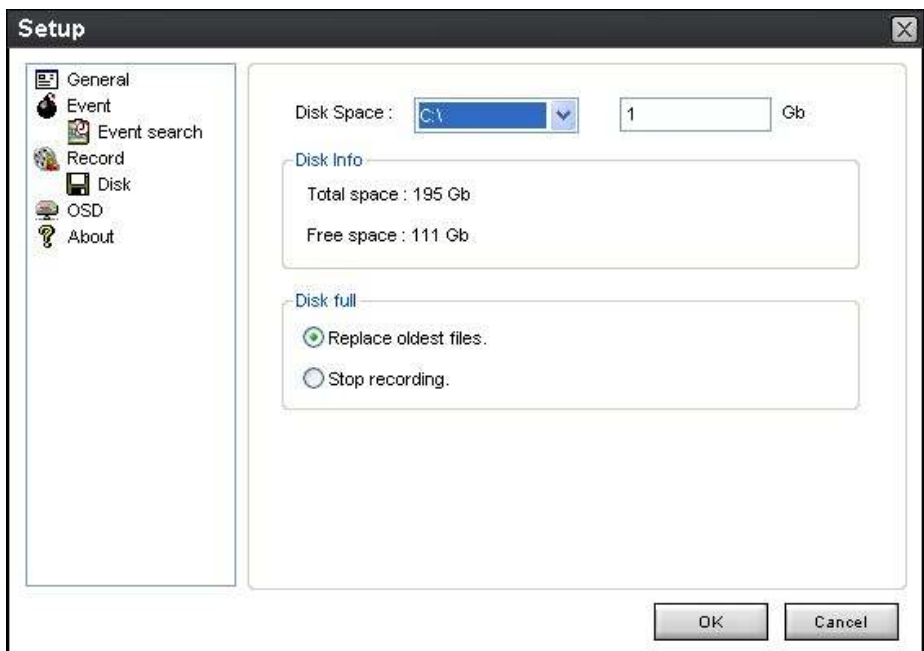
### 6-3. Record

**6-3-1. Record setup:** You can set the recording conditions for Always, Event, or Auto record. And you can also select target DVR/DVRs and channel/channels.

When you set the recording condition to event, you can set event for motion or alarm with duration.

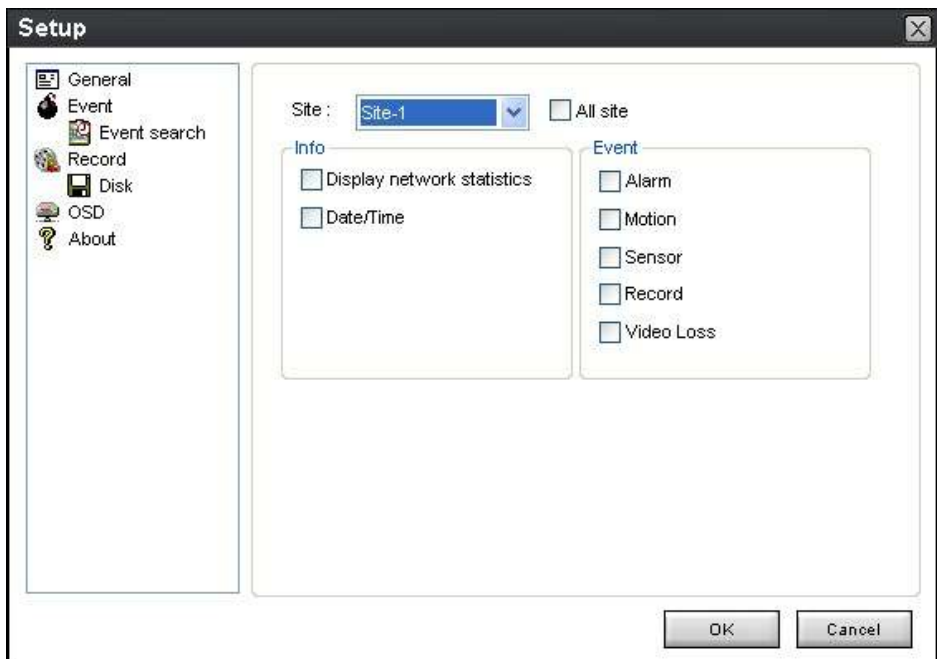


**6-3-2. Record local storage setup:** You can select the local disk to use and the amount of disk space you want to allow the program to use for recording. You can also select the option to overwrite data or stop recording when the maximum amount of disk space is full.



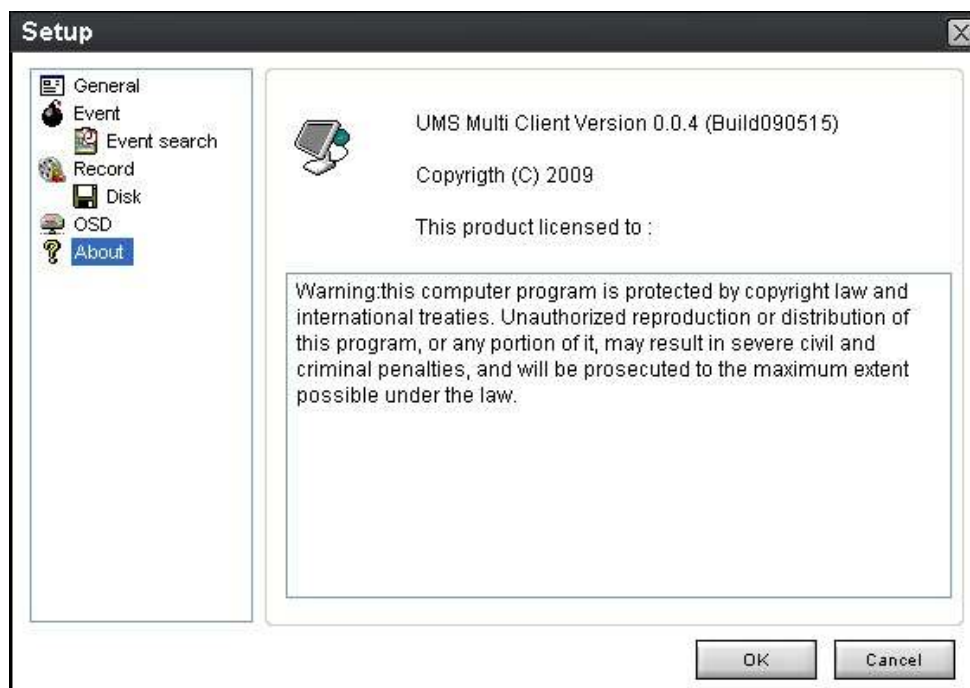
### 6-3. OSD

You can select the OSD to be display



#### 6-4. About


“About” provides network client version information.

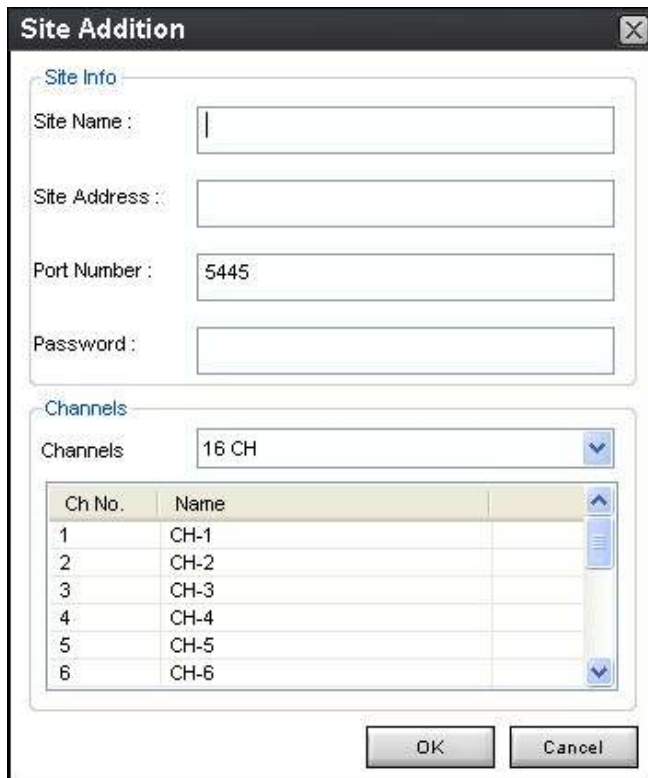


## 7. Operation

### 7-1. Addition, Delete, and modify of DVR sites

#### 7-1-1. Addition of sites

1. Click  SITE ADDITION button. And then the following window displays.



The 'Site Addition' dialog box contains the following fields and controls:

- Site Info:**
  - Site Name: [Empty text box]
  - Site Address: [Empty text box]
  - Port Number: 5445
  - Password: [Empty text box]
- Channels:**
  - Channels: 16 CH (dropdown menu)
  - Table with columns: Ch No., Name

Ch No.	Name
1	CH-1
2	CH-2
3	CH-3
4	CH-4
5	CH-5
6	CH-6

Buttons: OK, Cancel

- Site Name: Input a name that properly describes a site.
- IP Address: Input IP address (Public IP address of a router that DVR is connected.) or Domain name that is registered at [www.ddnscenter.com](http://www.ddnscenter.com)
- Port No.: Input port number of DVR.
- Password: Input network password of DVR.
- Channels: Select the channels number of DVR.


2. Click OK button. And then the registered site is added on the directory window.



### 7-1-2. Delete of sites

1. Select the site/sites to delete from the directory window.



2. Click  SITE DELETE button. And then the selected site/sites is/are deleted.

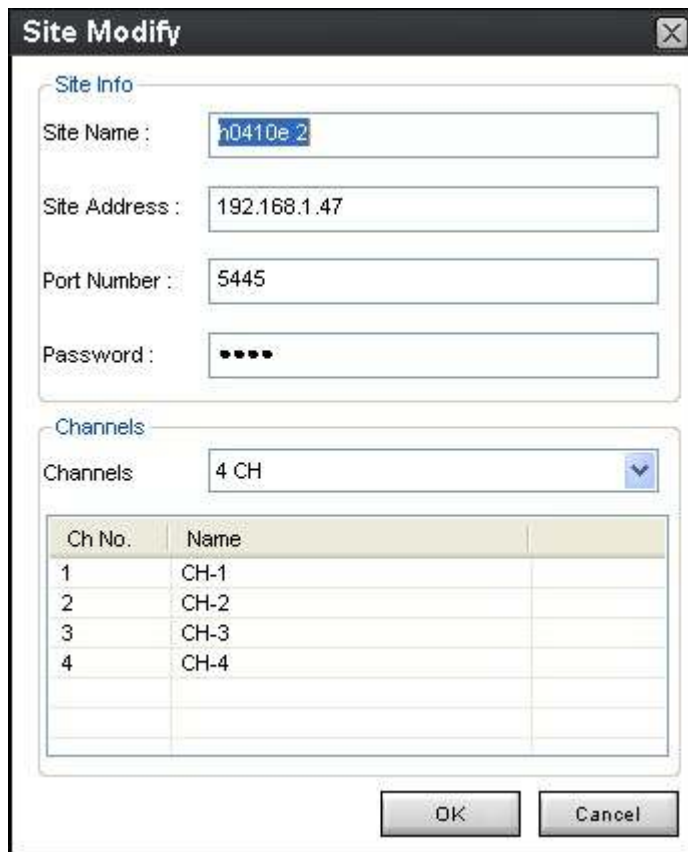


### 7-1-3. Modify of sites

1. Select the site/sites to modify from the directory window.



2. Click  SITE MODIFY button. And then the following window displays.



The image shows a 'Site Modify' dialog box with a close button (X) in the top right corner. It is divided into two sections: 'Site Info' and 'Channels'. The 'Site Info' section contains four text input fields: 'Site Name' (containing 'h0410e 2'), 'Site Address' (containing '192.168.1.47'), 'Port Number' (containing '5445'), and 'Password' (containing four dots). The 'Channels' section features a dropdown menu labeled 'Channels' with '4 CH' selected. Below the dropdown is a table with two columns: 'Ch No.' and 'Name'. The table contains four rows of data.

Ch No.	Name
1	CH-1
2	CH-2
3	CH-3
4	CH-4

At the bottom of the dialog box are two buttons: 'OK' and 'Cancel'.


3. Click OK button. And then the modified information is applied.

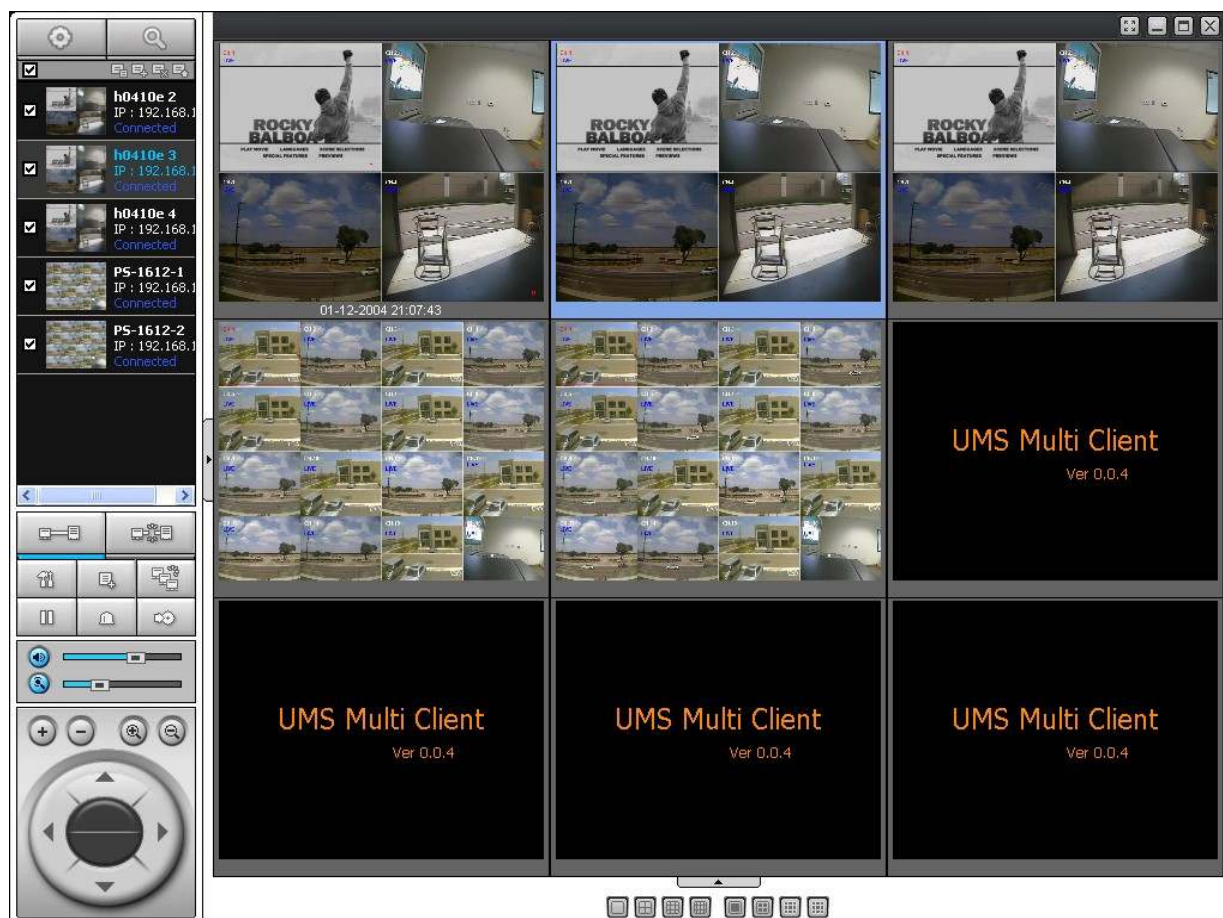
## 7-2. Connect and Disconnect

### 7-2-1. Connect

1. Select site/sites to connect from the directory window.




2. Click  CONNECT button, and then site/sites displays/display as connected.

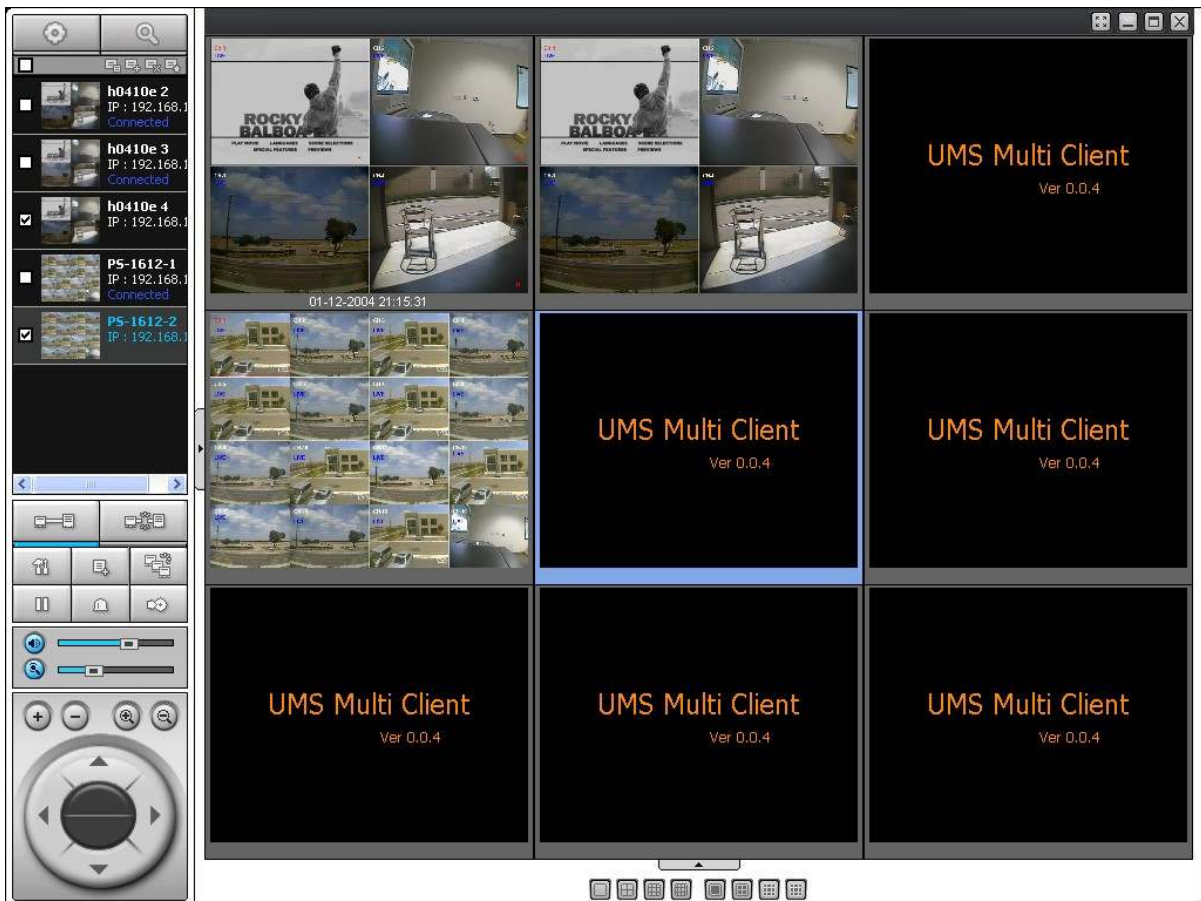


### 7-2-2. Disconnect

1. Select site/sites to disconnect from the directory window.



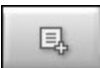
2. Click  DISCONNECT button, and then selected site/sites disconnected.

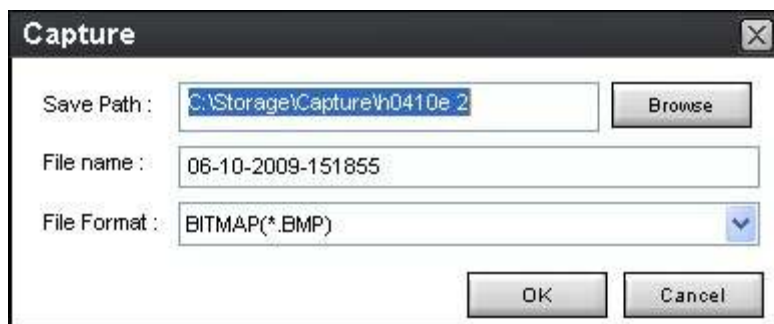


## 7-2. Still-image capture during Live

1. Double-click a channel to capture from the display screen. (Otherwise all channels will be captured.)

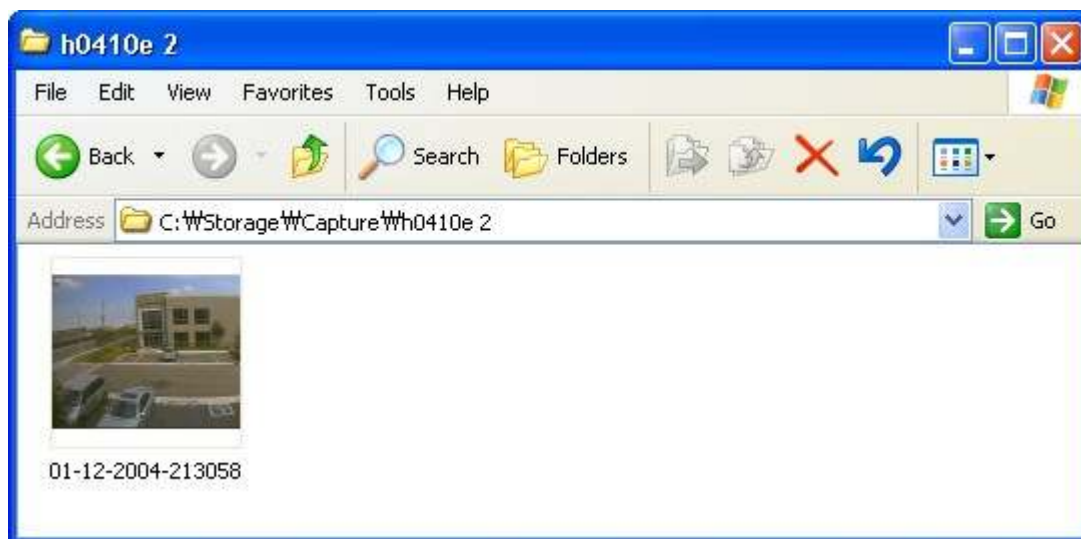


2. Click  CAPTURE button. And then a Capture window displays.




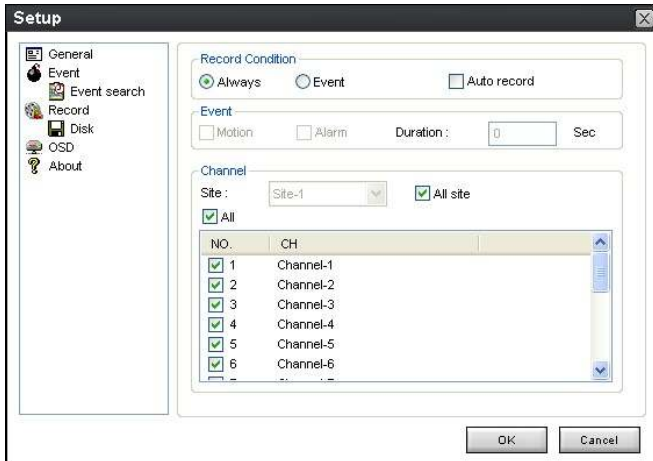
3. Set Save path, File Name, and File Format. And then click OK button.

4. Still image is saved as set in Capture window.

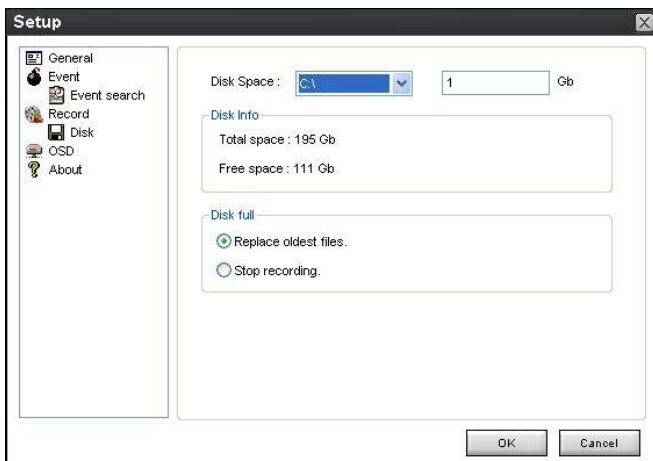



### 7-3. Recording video on local PC during Live

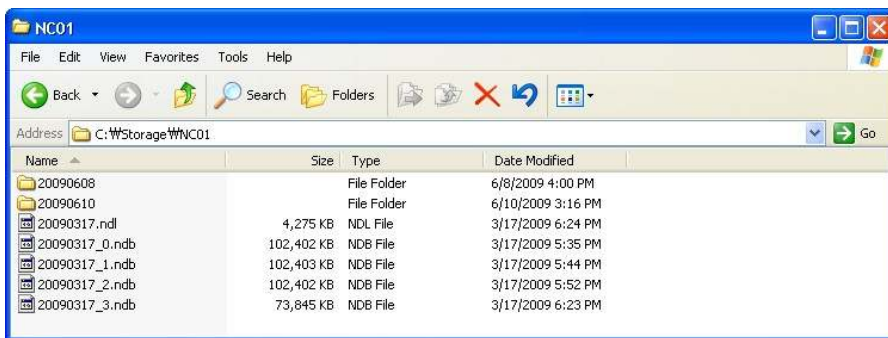
1. Click  SETUP button. And then a setup window display.
2. Select Record and set the values.



3. Select Disk and set the values.




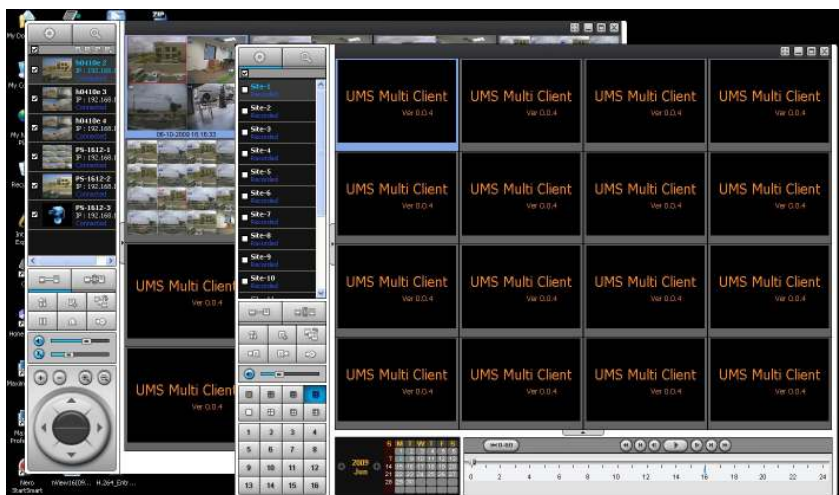
4. Click  RECORD ON button. And the color of button is changed.
5. Live video data is recorded as set in Record and Disk setup. These video data can be searched and play-backed with Local Playback.




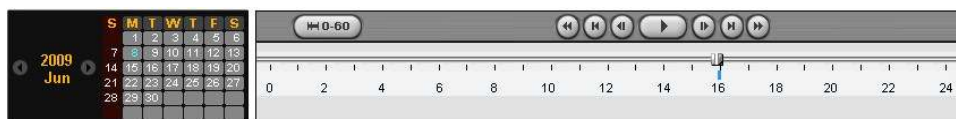
## 7-4. Local Playback and Remote Playback

### 7-4-1. Playback of recorded video on local PC

1. Click  LOCAL PLAYBACK button. And then Playback Window display over Live Window.



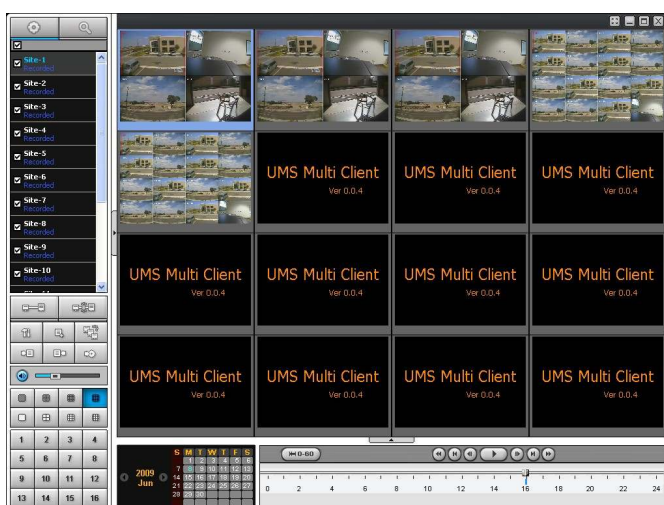
2. Select site/sites to connect from the directory window.
3. Click  CONNECT button. And then Green bar displays on Search calendar and slide window.




4. Move scroll bar on where there is video data and Play button.

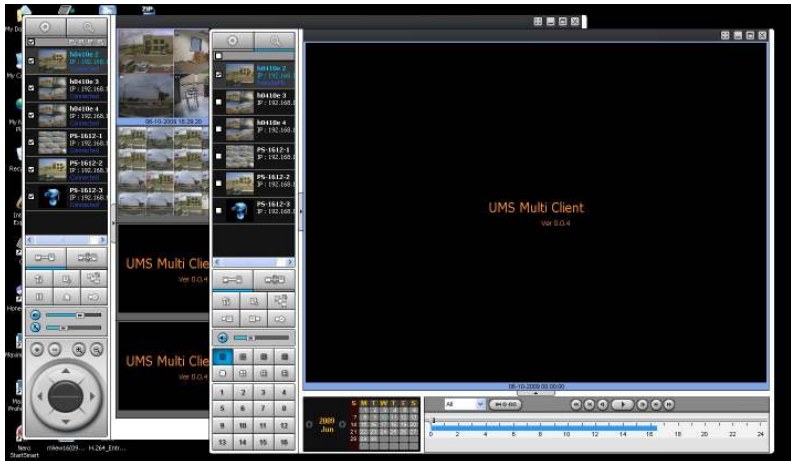



5. Video data that is recorded on local PC will be play-backed.

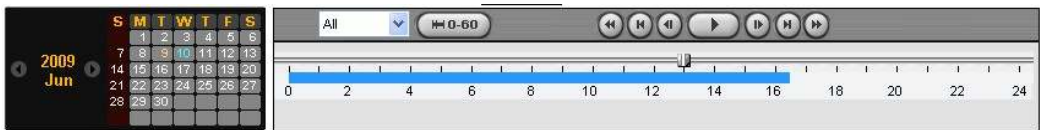


7-4-2. Playback of recorded video on remote DVR

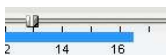
1. Click  REMOTE PLAYBACK button. And then Playback Window display over Live Window.



2. Select site to connect from the directory window.
3. Click  CONNECT button. And then Green bar displays on Search calendar and slide window.



4. Move scroll bar on where there is video data and Play button.



5. Video data that is recorded on a remote DVR is play-backed.



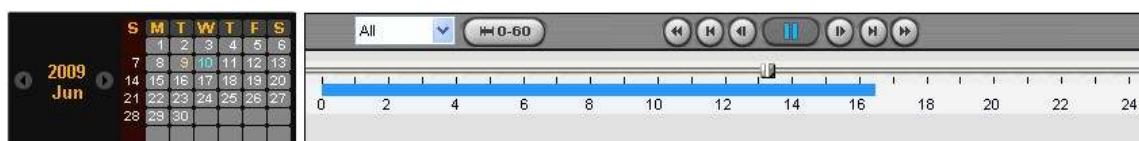
### 7-5. AVI Backup during playback


You can backup the recorded videos in AVI format during playback.

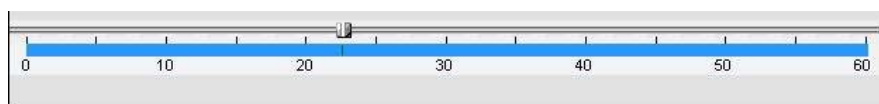
**Notice for remote backup**


User must open 1 additional TCP port for remote backup as AVI format. If this port is not open properly, the remote backup function does not work. (Example: When NETWORK/PORT is set as 5445, 5446 TCP port of IP address of DVR must be open.)

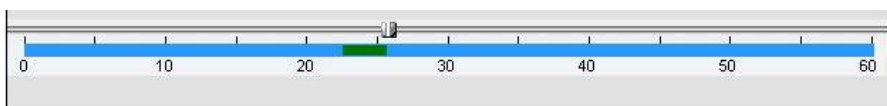
1. Double-click the target channel to backup.
2. Select the beginning time by using the search calendar and slide bar.




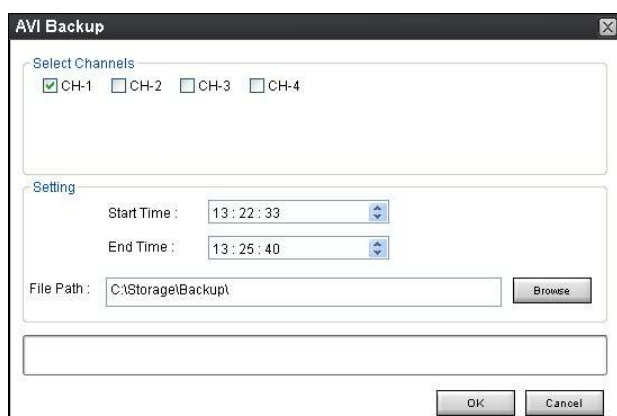
3. Click  MARK IN button, when the scale of the timeline is located on the target time as the beginning time of backup.



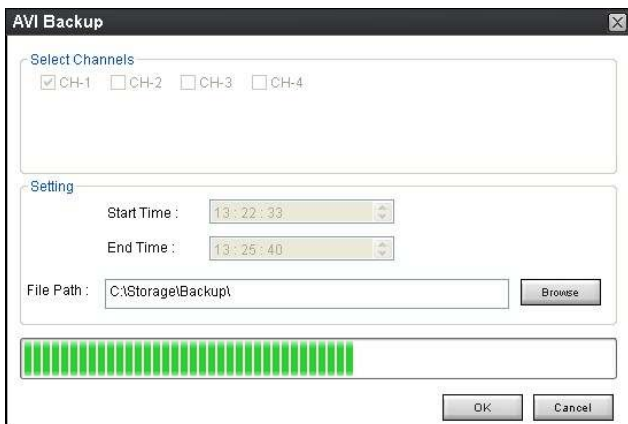
4. Set the ending time on the blue timeline by dragging the scale on the target time as the ending time of backup and clicking  MARK OUT button. Then, color of the timeline between the beginning time and ending time will be changed into dark Green.



5. Click  BACKUP. And then the window appears as below.



6. You can also set the beginning time and ending time on this window. After selecting a channel for backup, click the OK button. The backup will begin.



5. AVI video data is recorded as set in AVI Backup window. AVI format video can be played back by Window Media Player™ or other media player that is compatible with AVI format video.



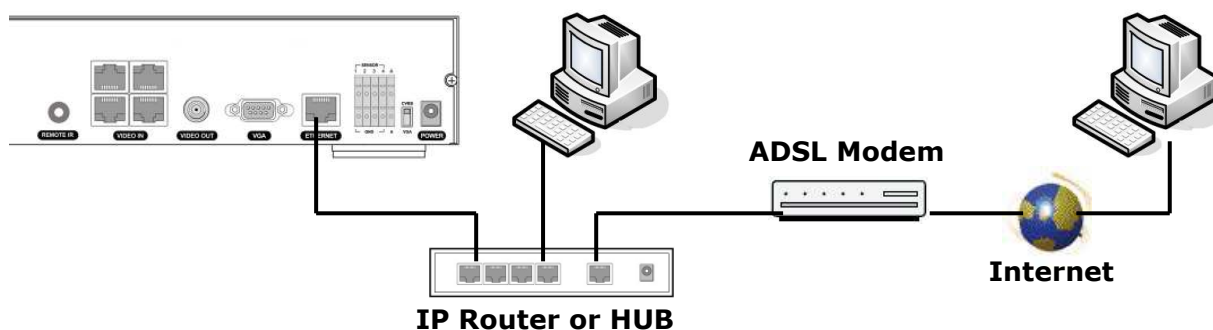
**Notice**  
When PC doesn't have proper H.264 CODEC, the media players can not playback the AVI format video. Then install CODEC that is provided on the CD.

## APPENDIX: How to set network

### How to set IP address of the DVR and open TCP port of the router?

The port forwarding is dependent on the brand and model of the router. The port forwarding is required to allow access to the DVR beyond a router.

1. Connect network cable between DVR and Router or ADSL modem.



2. Default network setting on DVR are
  - Port: 5445
  - WEB Port : 80
  - Network : DHCP
3. From PC connected in the same Router, find IP address, Gateway, and Subnet mask by IPCONFIG command in command prompt.



```

C:\WINDOWS\system32\cmd.exe
C:\W>ipconfig

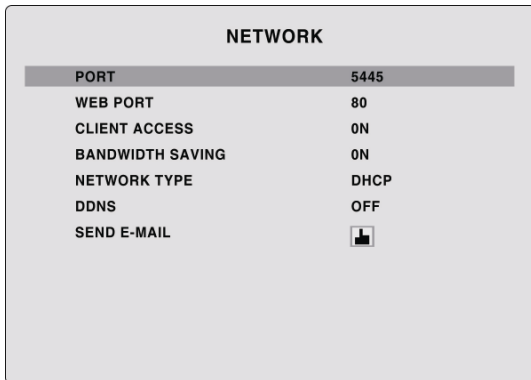
Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 192.168.0.101
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

C:\W>
  
```

4. But if IP is something else like 192.168.x.xxx., you should change IP address, Subnet, Gateway on the DVR. Go to SETUP>NETWORK>LAN of the DVR and change the IP settings to be like IP: 192.168.XXX.XXX and Gateway: 192.168.XXX.XXX. (Refer to the user's manual of Router.)



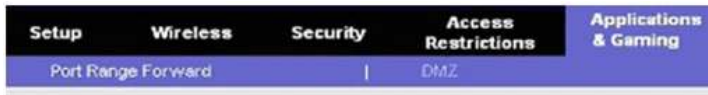
- Open the web browser. Enter the router IP address in the address bar (The router IP address are different with the brand and model.), click GO.



- Enter the user name and password (**admin** is default) and press the **OK** button.



- Select the Port Range Forwarding tab.



Port Range					
Application	Start	End	Protocol	IP Address	Enable
	5445	to 5445	Both	192.168.1.1	<input checked="" type="checkbox"/>

- Enter the each field.
  - Application: Enter a description of the DVR (Example: store1)
  - Start: Enter the first number of the port you need to port forward (Example: 5445)
  - End: Enter the last number of the port you need to port forward (Example: 5445)
  - Protocol: Select Both.
  - IP address: Enter the IP address of the DVR on SETUP>NETWORK>LAN>IP ADDRESS.
  - Enable: Check the enable box.

9. Select the Save settings button located on the bottom of the window. Then Port forwarding is finished.

Save Settings

Cancel Changes

#### **Network access beyond Router**

In order to access beyond Router (Firewall), user must open 1 TCP port that is set on NETWORK > PORT for Command, Live steaming, and Search streaming. If this port is not open properly, user can not access DVR beyond a router. (Example: When NETWORK/PORT is set as 5445, 5445 TCP port of IP address of DVR must be open.)

#### **Notice for remote backup**

User must open 1 additional TCP port for remote backup as AVI format. If this port is not open properly, the remote backup function does not work. (Example: When NETWORK/PORT is set as 5445, 5446 TCP port of IP address of DVR must be open.)

You can learn how to port forward many kinds of Routers from the bellow site.

[http://www.portforward.com/english/routers/port\\_forwarding/routerindex.htm](http://www.portforward.com/english/routers/port_forwarding/routerindex.htm)