

USER GUIDE

UMS Multi Client (Multi Sites Monitoring Software) Version: 1.1



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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.

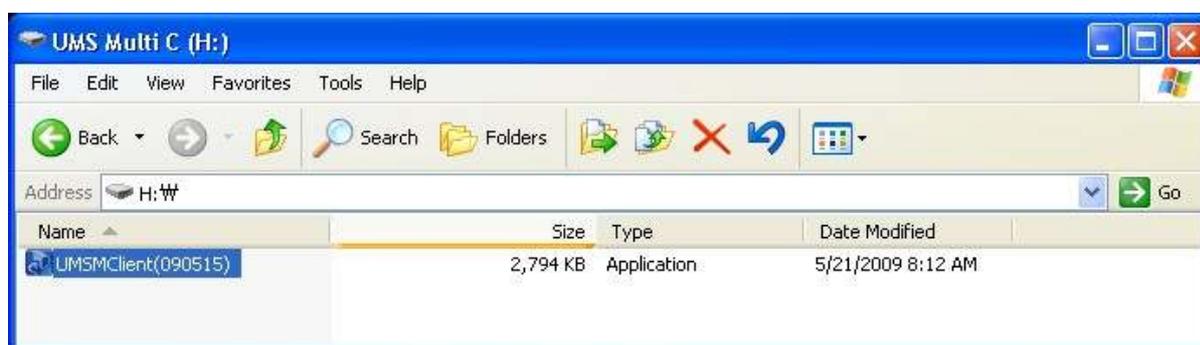
2. Minimum PC requirements

CPU	Intel PentiumIV
	2Ghz
Memory	512MB or Higher is recommended.
VGA	128MB or Higher is recommended.
Resolution	1024x768
Disk space	1GB
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

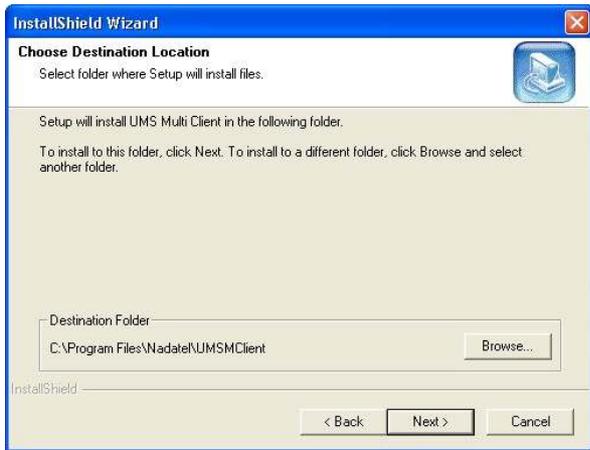
Before installing the program, check the PC specifications. The DVR remote software may not perform correctly if the PC does not meet the minimum requirements.

3. Installing the program

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



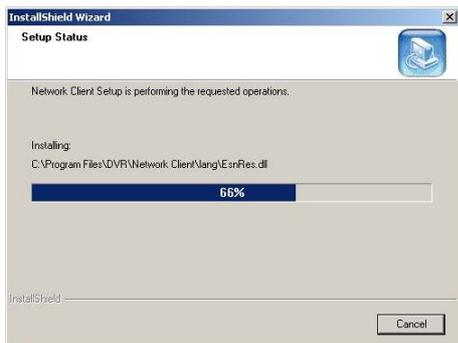
2. Select a destination folder and click "Next".



3. Select the program folder and click "Next".



4. The setup status screen is displayed.



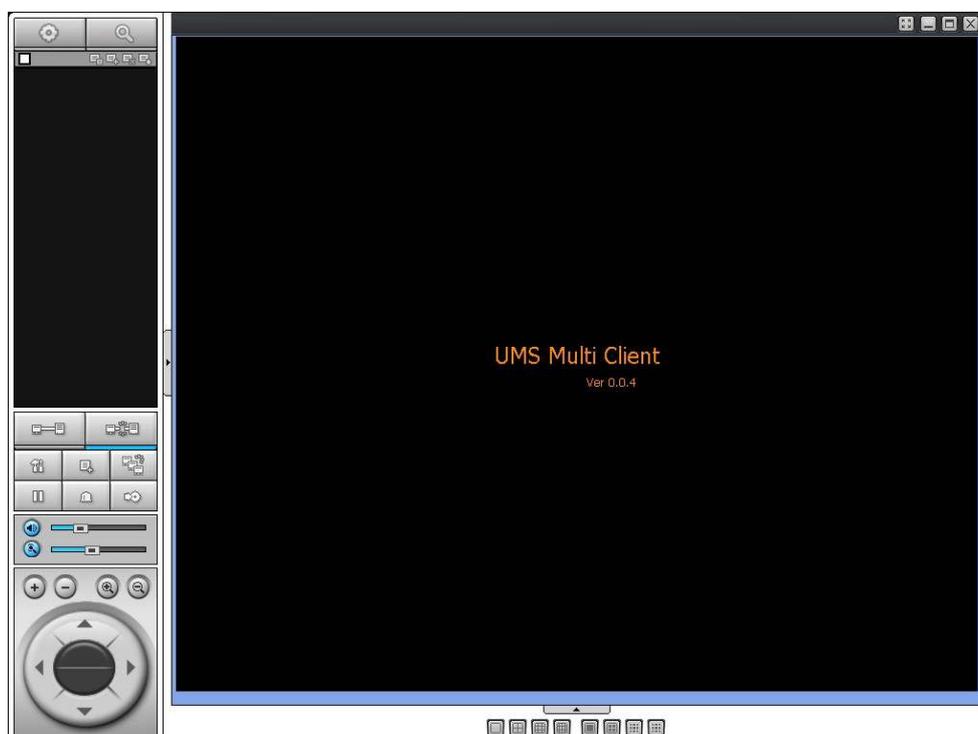
5. After the installation is completed, "UMS Multi Client" icon displays on the desktop screen.



4. Live Window

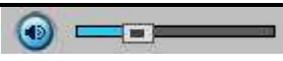
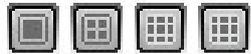
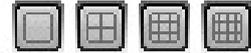
When installation is completed, double click the “UMS Multi Client” icon on your desktop to start the program.

4-1. Main user interface



4-2. Control buttons

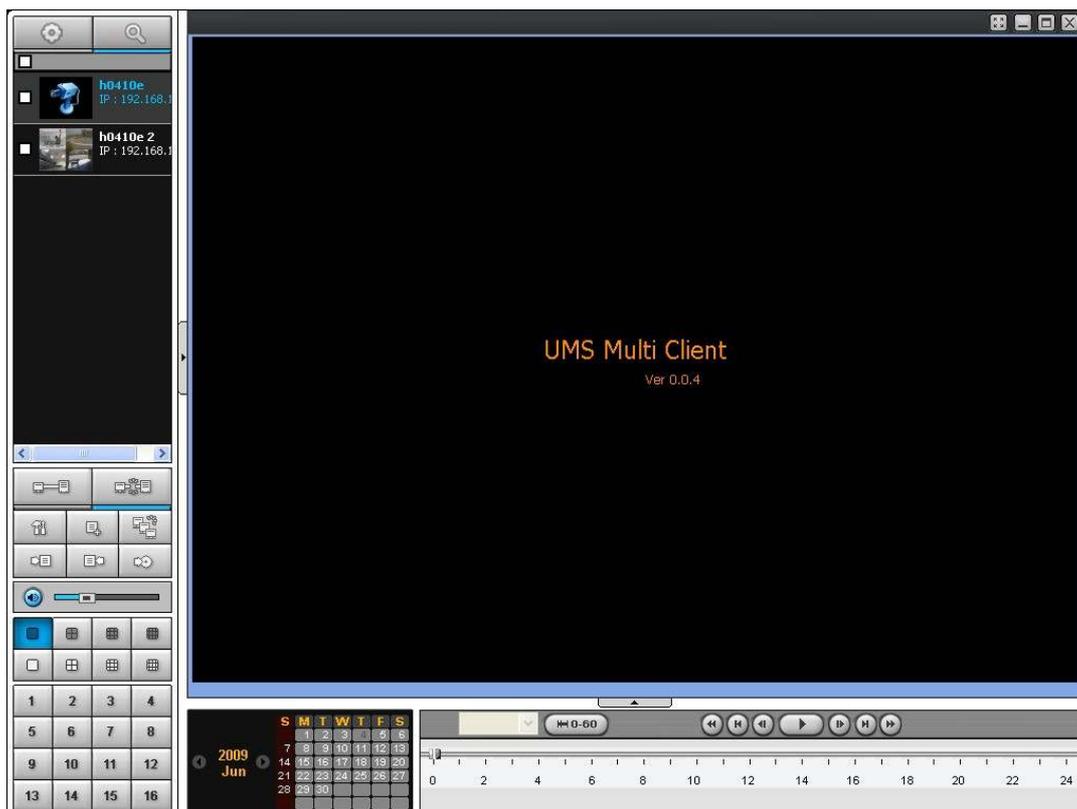
Button	Description
 LOCAL PLAYBACK	Click this icon to run a playback window to search and play videos that are recorded in local PC.
 REMOTE PLAYBACK	Click this icon to run a playback window to search and play videos that are recorded in remote DVR.
 SITE MANAGEMENT	<ul style="list-style-type: none">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

 <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 & ZOOM/FOCUS.</p> <p>  PAN left /right  TILT up/down  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

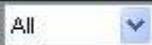
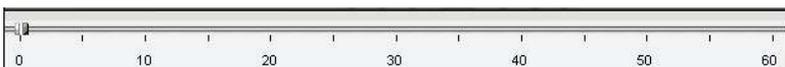
You can access to search window by clicking the search icon (Local Playback / Remote Playback) on the upper left of Live Window.



5-2. Main control panel

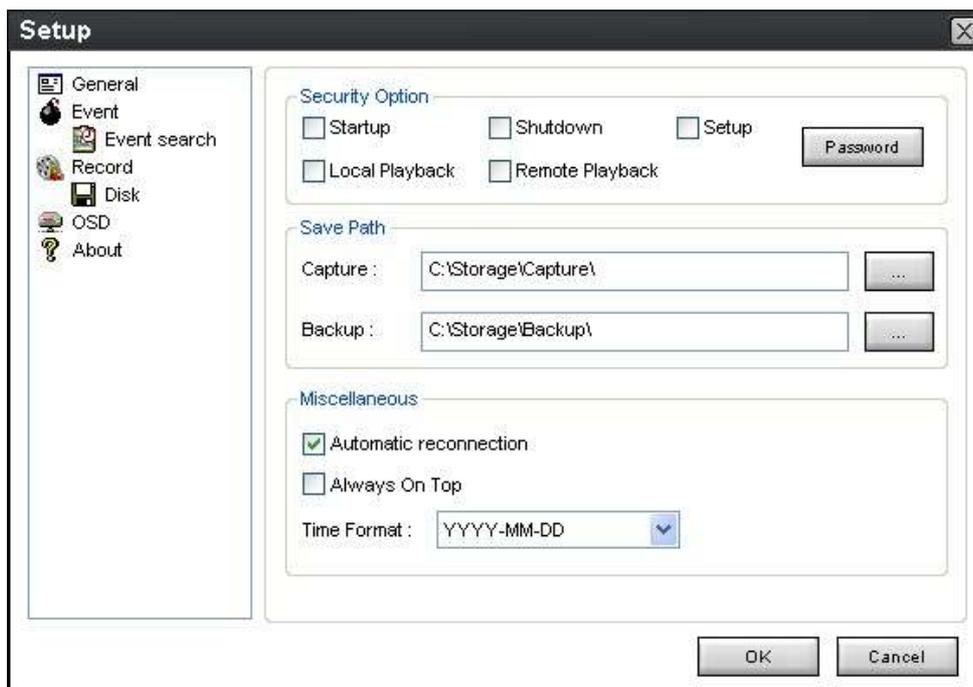
Button	Description
 <p>LOCAL PLAYBACK</p>	Click this icon to run a playback window to search and play videos that are recorded in local PC.
 <p>REMOTE PLAYBACK</p>	Click this icon to run a playback window to search and play videos that are recorded in remote DVR.

	<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>Use the volume control bar to set the audio level.</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.

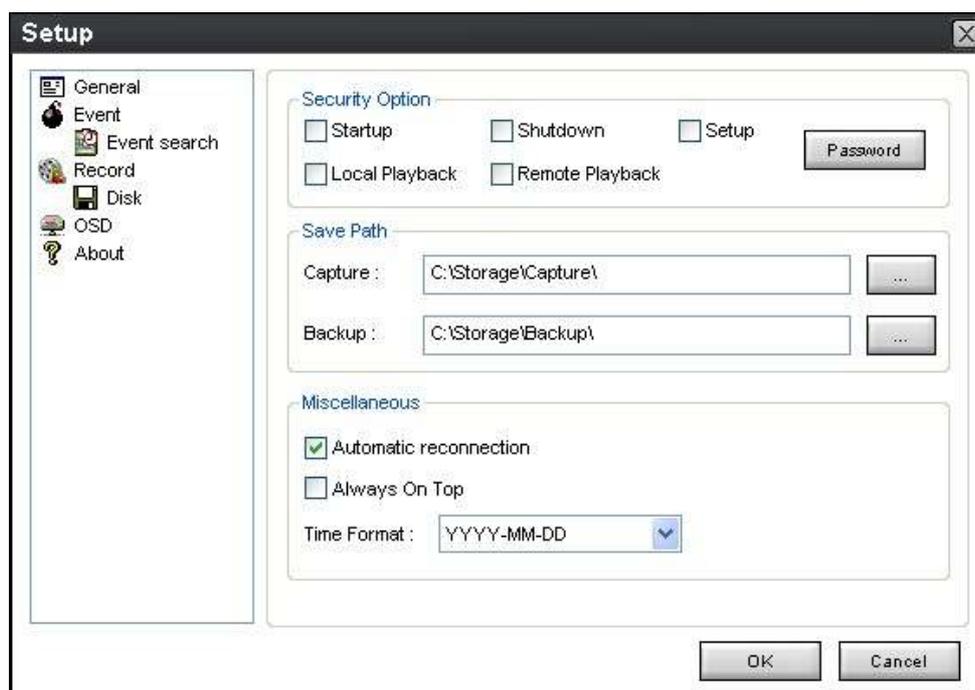
6-1-2. Save Path: Specify the location to save captured still image for Capture and Backup data.

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:

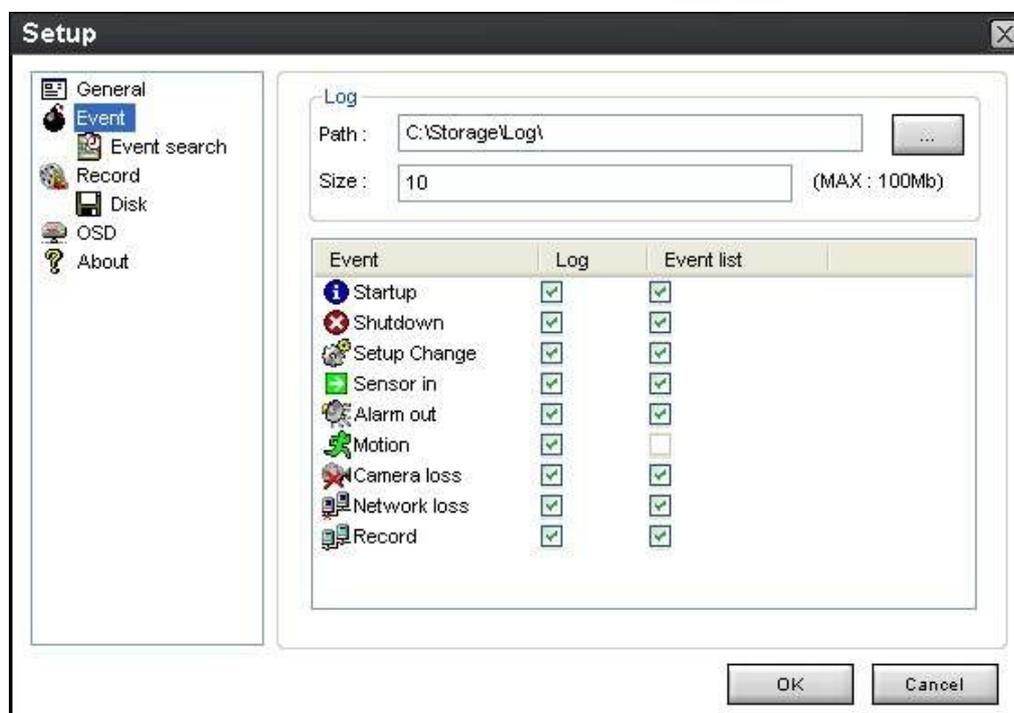
Time Format: Change the way the Client software displays the time.



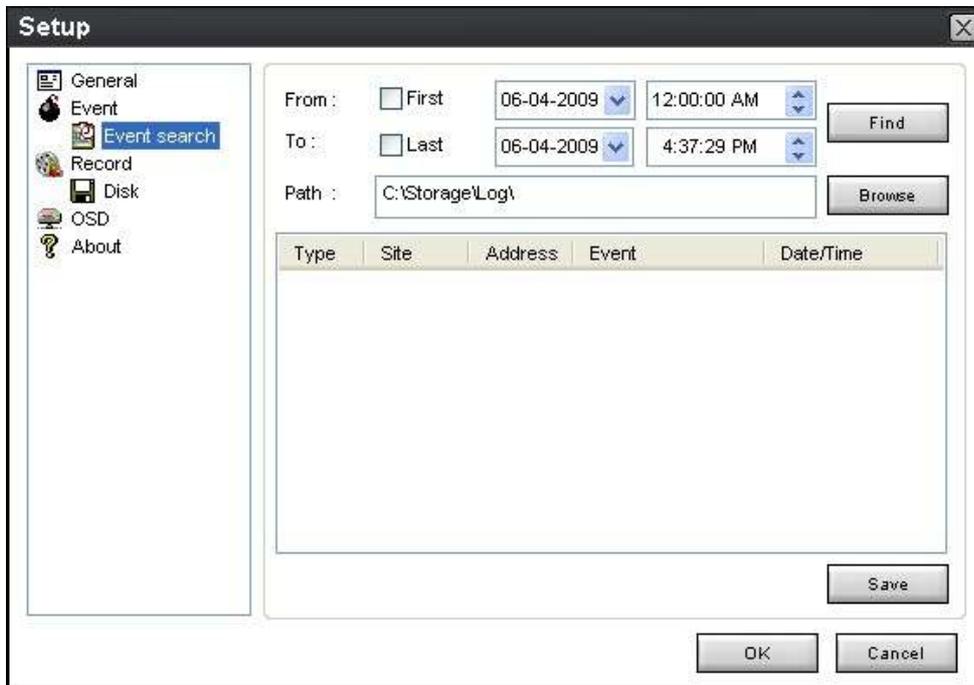
6-2. Event

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.



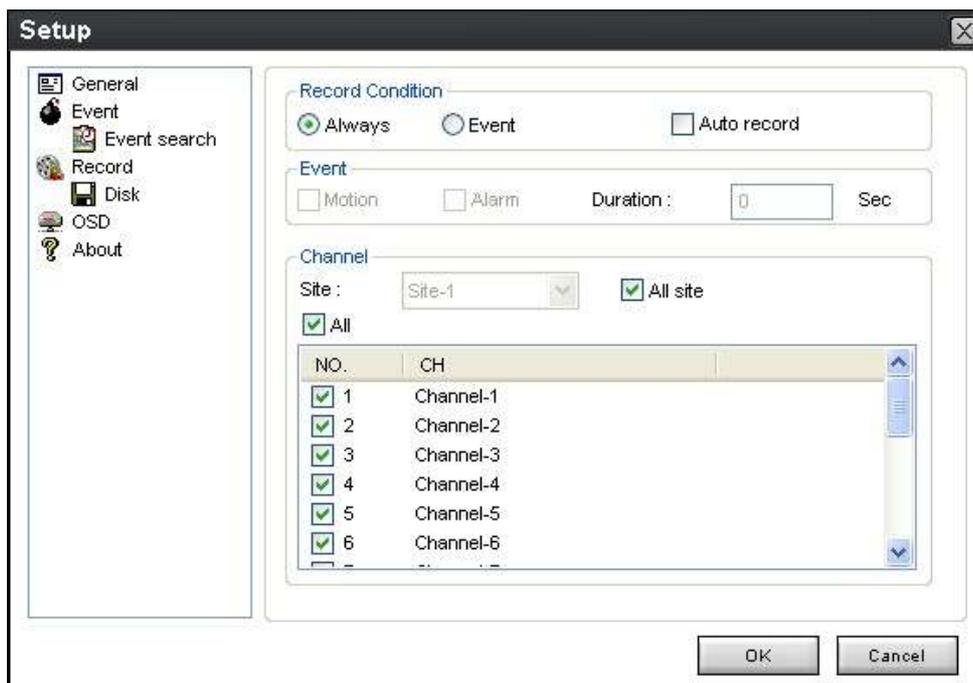
6-2-2. Archiving Event Log: Event log can be searched from selected time.



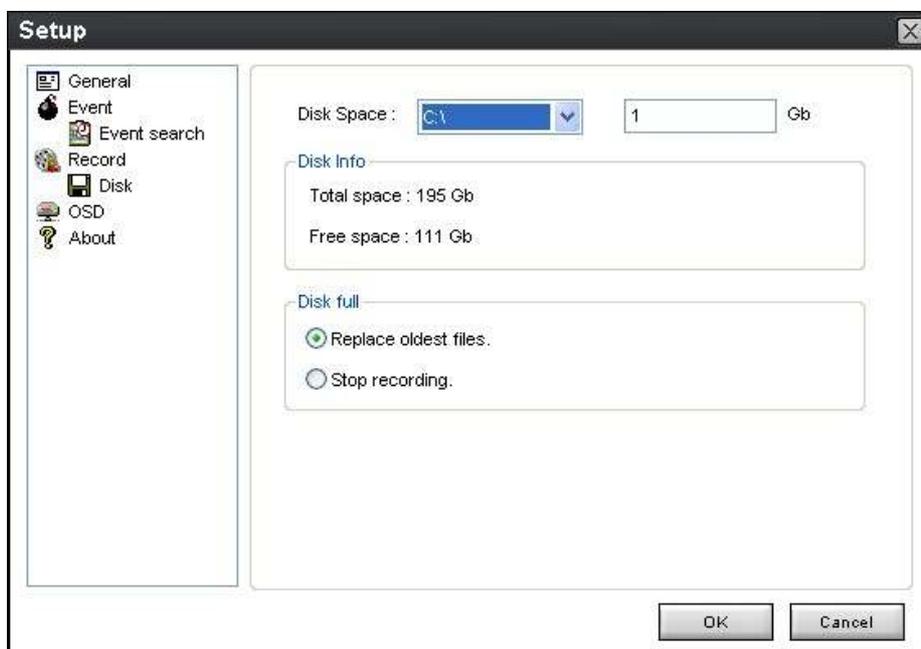
6-3. Record

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.

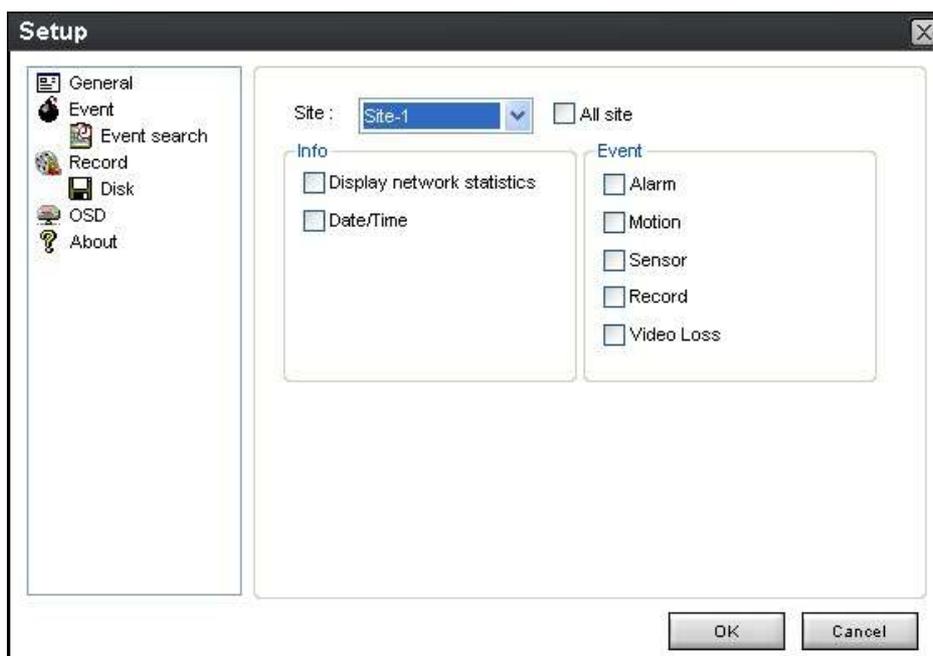


6-3-2. Record local storage setup: You can select the local disk to use and the amount of disk space you want to allow the program to use for recording. You can also select the option to overwrite data or stop recording when the maximum amount of disk space is full.



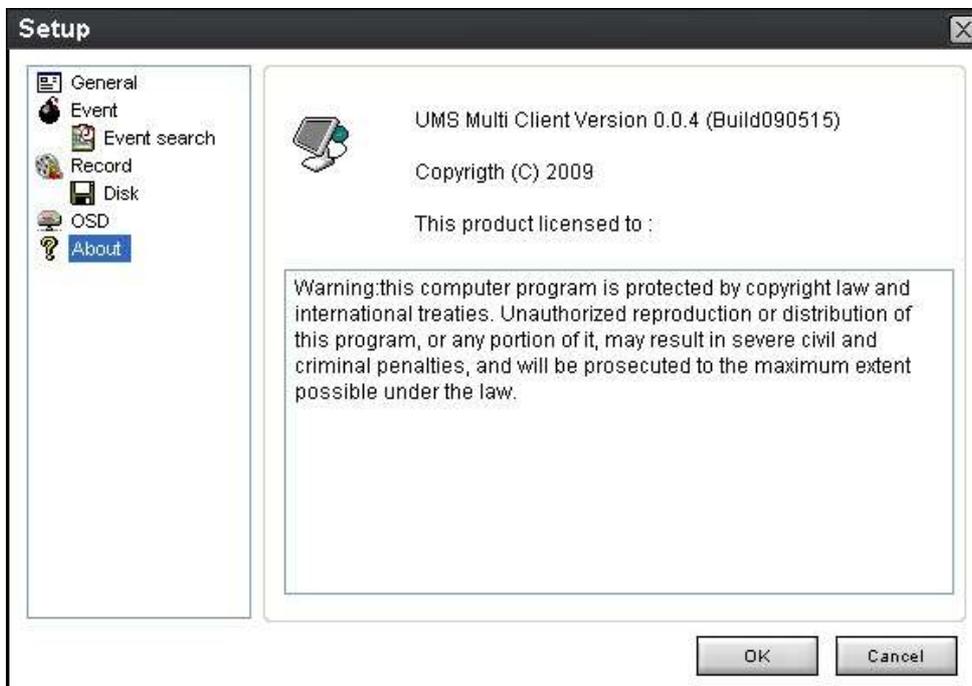
6-4. OSD

You can select the OSD to be display



6-5. About

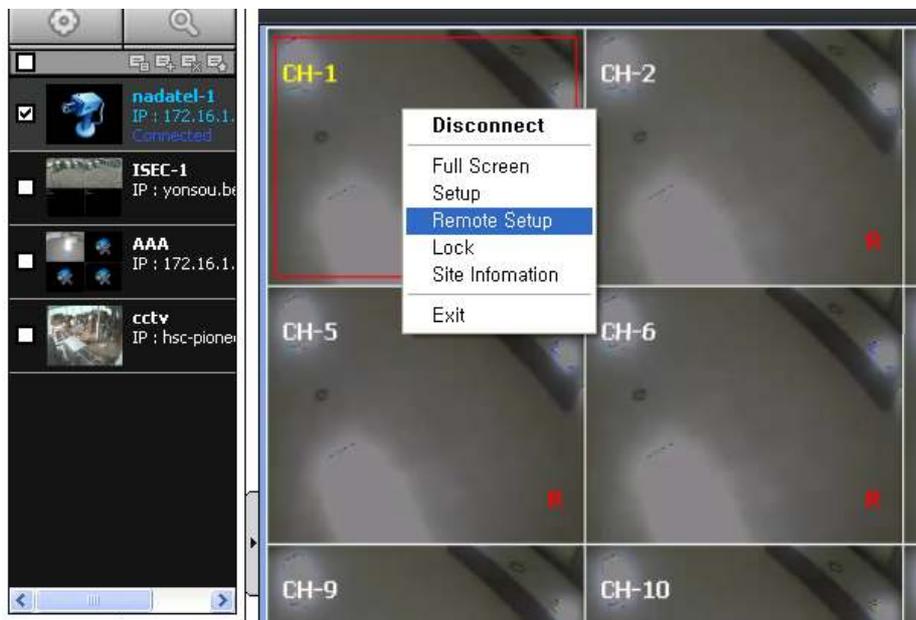
“About” provides network client version information.



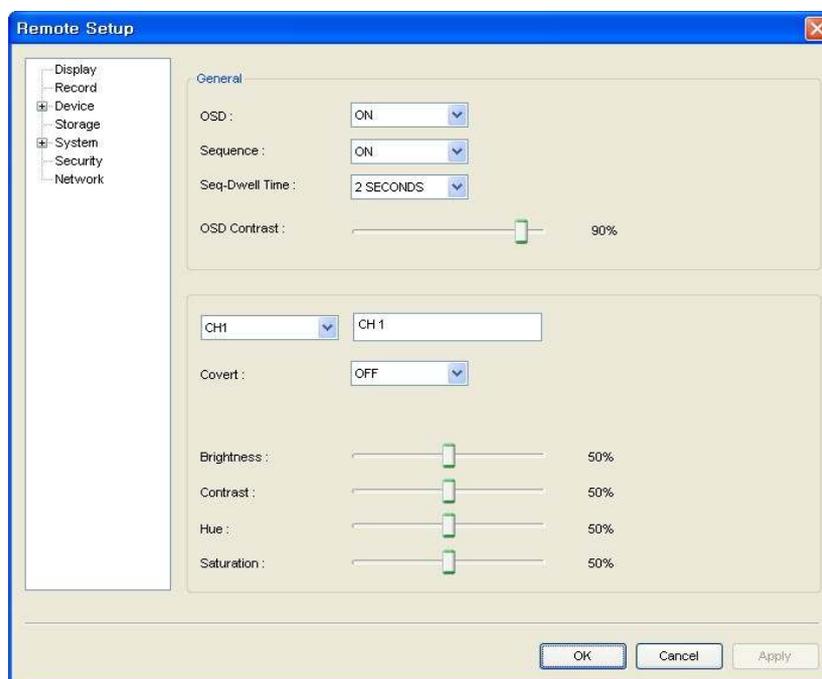
7. Remote Setup

The menu settings for the DVR unit can be set from a PC, via network.

Put the cursor of the mouse on the channel which is connected to the site and press the right. Then the following window is displayed. Select the **Remote Setup**.



Then the setup window is displayed. The specified menu screen is displayed on the upper left of the screen.



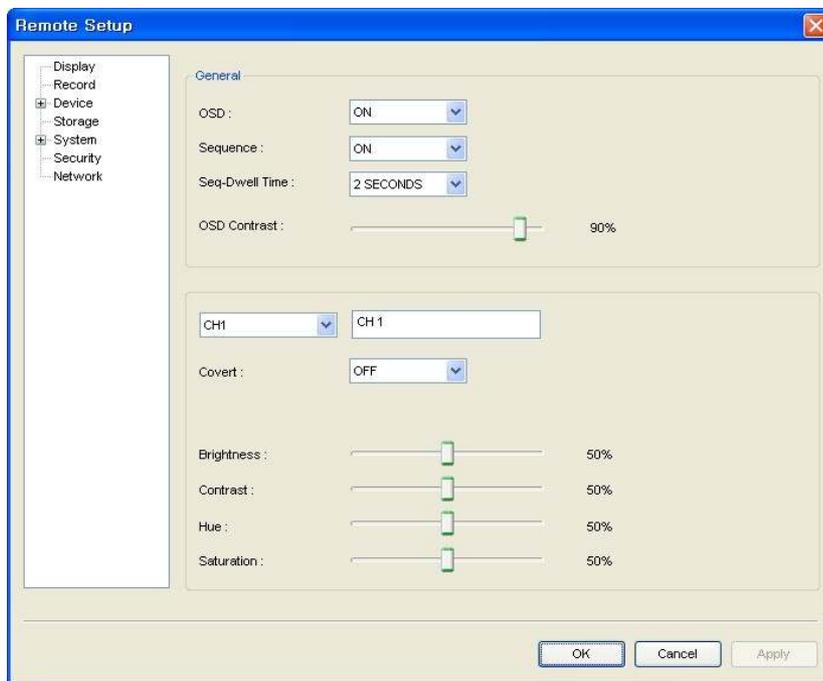
(Memo: Remote setup may not be supported depending on the DVR model or firmware version.)

Setting is basically the same as with the DVR menu setting. Refer to the corresponding pages for details on the setting items.

7-1. Setting the Display

Select **Display** to set the live video display conditions

7-1-1. General settings.



These settings apply to all channels.

OSD: Sets whether to display or not date and time as well as channel number on the screen.

Sequence: Setting for automatically switching the displayed video.

Seq-Dwell Time: Sets the interval for automatically switching the screens.

OSD Contrast: Adjust the character contrast on the screen.

7-1-2. Channel-specific settings

These settings apply to the specified channel only.

Channel designation

Covert: Sets whether to display or not video from the channel on the monitor.

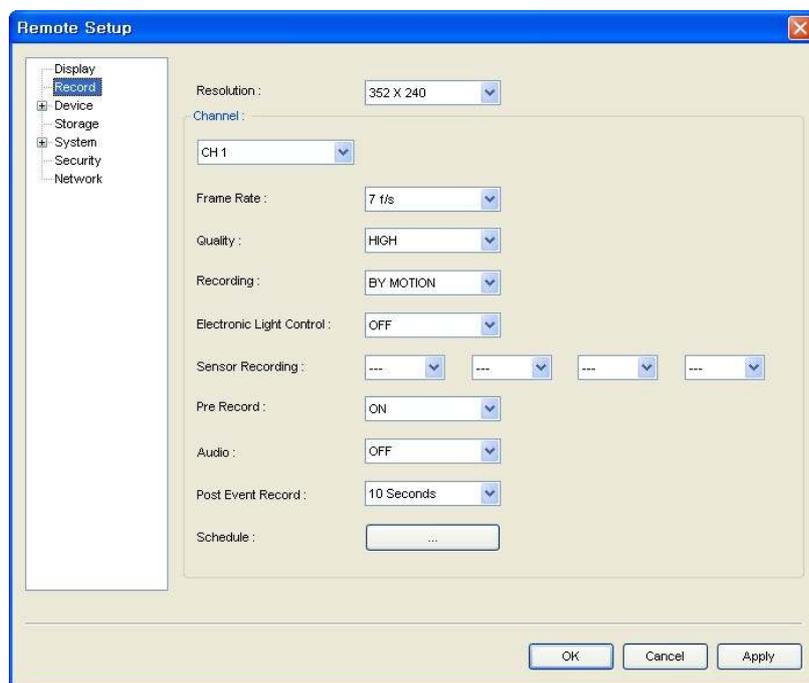
Video image adjustment

7-2. Setting the Record

Select **Record** to set the recording conditions.

7-2-1. Common to all channels

Resolution: Sets the resolution for the recordings. The set value applies to all channels.



7-2-2. Channel-specific settings.

These settings apply to the specified channel only.

Channel designation

Frame Rate: Sets the recording rate.

Quality: Sets the image quality in 5 levels.

Recording: Sets the recording mode.

Electronic Light control: Sets whether to perform or not the electronic light control

Sensor Recording: Sensor recording is performed when an external sensor signal is input to the specified external sensor input terminal.

Pre Record: Sets whether to perform or not pre recording.

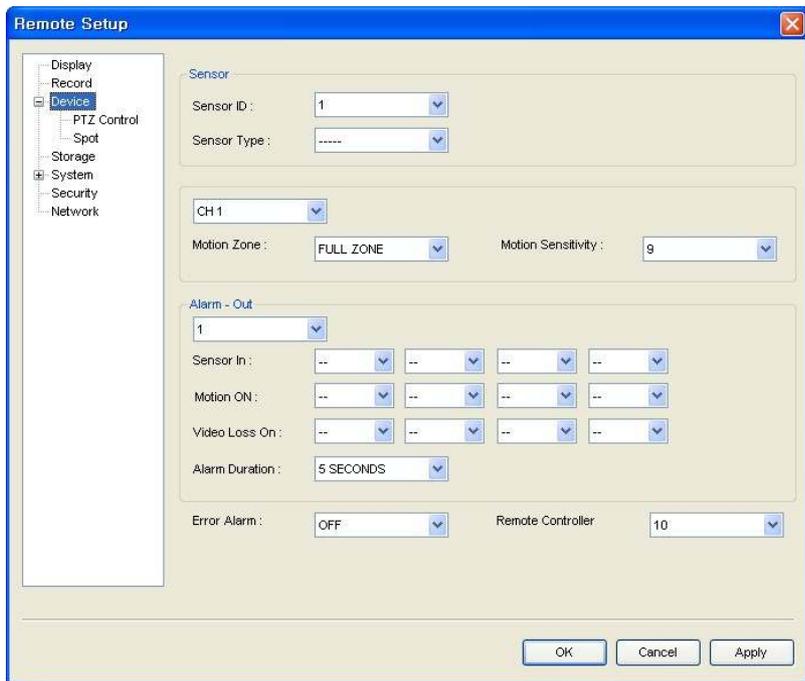
Audio: Sets whether to perform or not audio recording.

Post Event Record: Sets the duration of the event recording.

Schedule: Sets the schedule for schedule recording.

7-3. Setting the Device

Select **Device** to set the sensor input/alarm output conditions, PTZ control and spot setting conditions.



Setting a sensor input terminal: Specify a sensor input terminal number and set the type.

Setting the motion zone/Sensitivity: Select the zone where the motion sensor is active. It is necessary to set a detection frame when PARTIAL ZONE is selected. Select the level of detection sensitivity of the motion sensor. Sensitivity selections: 1~9(High sensitivity level)

Partial Zone: If selecting Partial Zone, a button is displayed to the right. Click the button and click(or drag)a grid cell in the desired detection frame.

Setting an alarm output terminal: Specify an alarm output terminal number (1-4) and set the alarm output conditions.

Alarm out No.: Specifies the alarm output terminal number (1-4)

Sensor In: Outputs an alarm signal when the specified external sensor input terminal receives an input.

Motion On: Outputs an alarm signal when the specified video input terminal receives a motion detection signal.

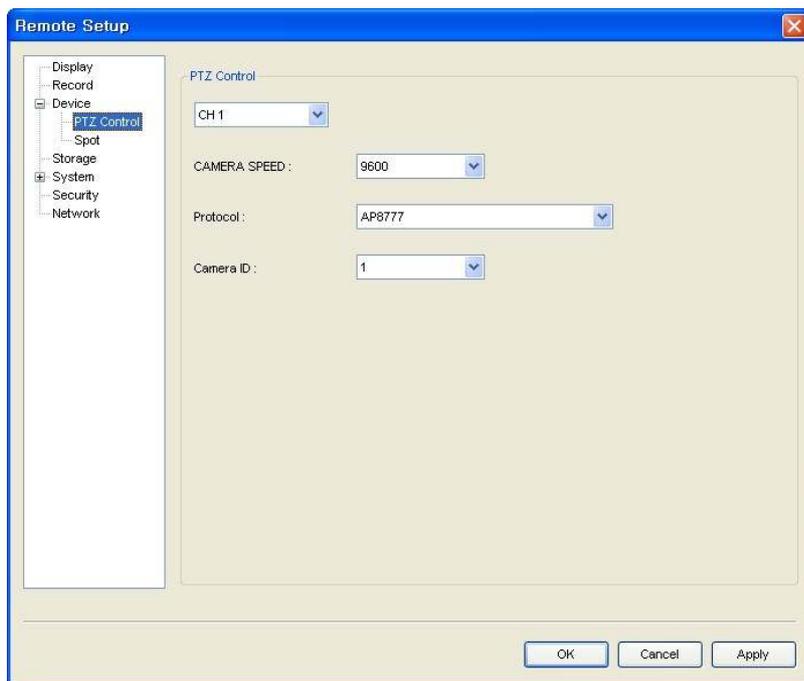
Video Loss On: Outputs an alarm signal when a video loss occurs in the specified video input terminal.

Alarm Duration: Sets the duration of the alarm output signal.

Error Alarm: Sets whether to output or not an alarm signal when the error condition occurs.

(Options are OFF, ALL, HDD ERROR and VIDEO LOSS.)

Remote controller: Sets an ID number on the supplied remote control for its identification.



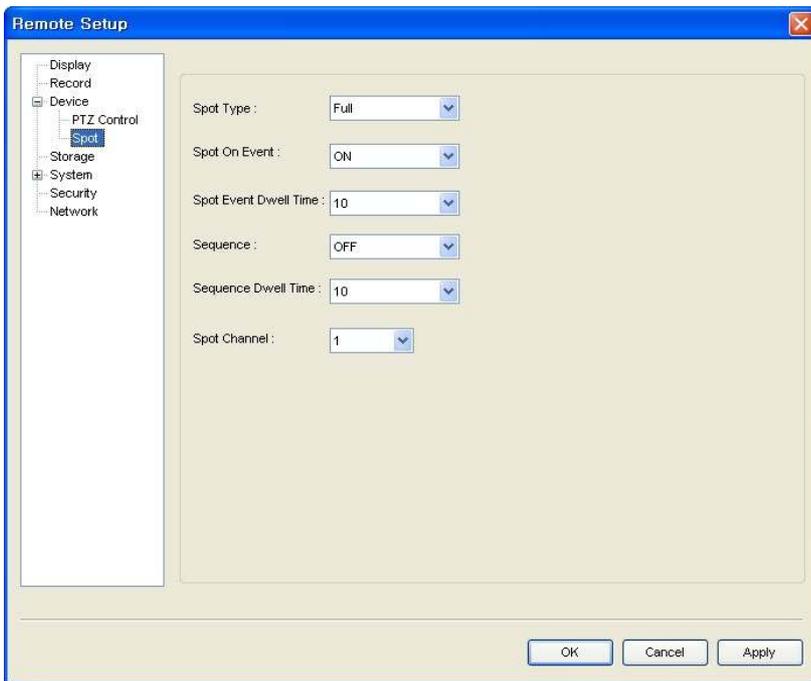
Setting the PTZ Control: Sets the communication environment for remotely operating PTZ dome cameras connected to RS485 terminals.

Camera channel designation

Camera speed: Sets the communication speed. The set value applies to all channels.

Protocol: Sets the protocol type for the specified channel. When connecting multiple cameras, set the same protocol for all.

Camera ID: Sets the camera ID.



Setting the SPOT: Sets the output conditions of the spot video terminal.

Spot Type: Sets the output screen layout of the spot terminal.

Spot On Event: Sets whether to output or not the video of a sensor recording to spot while it is being recorded.

Spot Event Dwell Time: Sets the output duration of the sensor recording video.

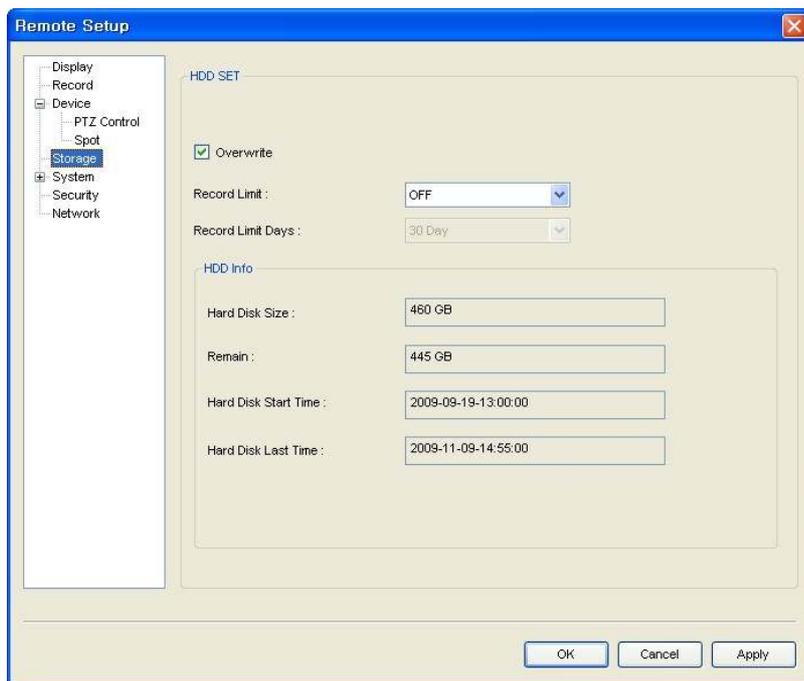
Sequence: Sets whether to automatically switch or not the video output to spot terminal.

Sequence Dwell Time: Sets the video switching interval if Sequence is set to ON.

Spot Channel: Sets the channel that outputs video to the spot terminal.

7-4. Setting the Storage

Select **Storage** to configure continued recording settings by overwriting the hard disk and the storage period for the recording data.



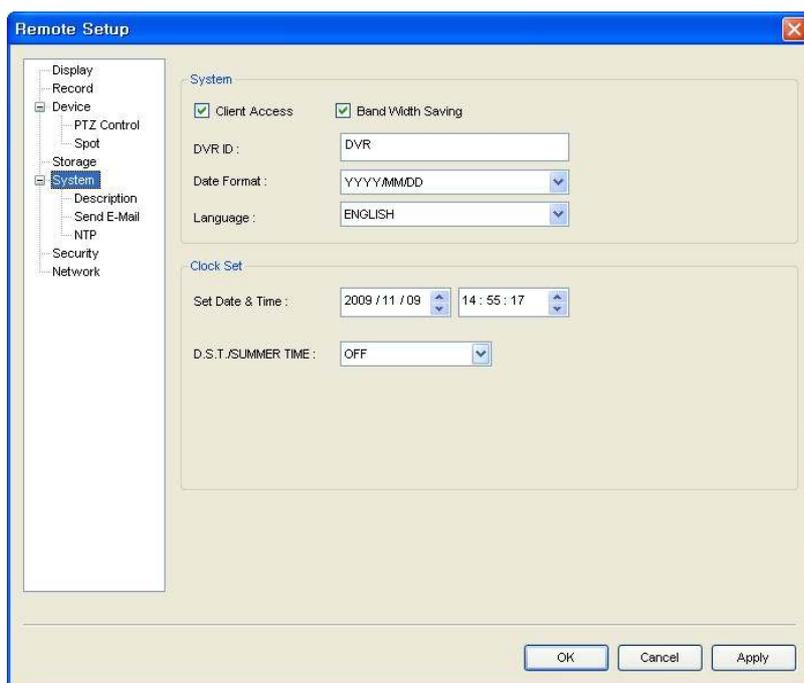
Overwrite: To continue recording by overwriting when the hard disk becomes full, check the checkbox.

Record Limit: Sets whether to limit or not the recording data storage period.

Record Limit Days: Sets a recording data storage period.

7-5. Setting the System

Select **System** to set system and time settings.



Client Access: To give permission to operate from an external PC by checking the checkbox.

Bandwidth Saving: Sets if the network bandwidth is not large enough when monitoring live videos by checking the checkbox. Live videos advance frame by frame(At the rate of 1 frame per second)

DVR ID: Sets individual designation to DVRs.

Date Format: Sets the date display format.

Language: Sets the display language.

Clock Set

Set Date & Time: Sets the current date and time.

D.S.T./SUMMER TIME: Sets whether daylight saving is applicable or not.

OFF: Daylight saving not applicable.

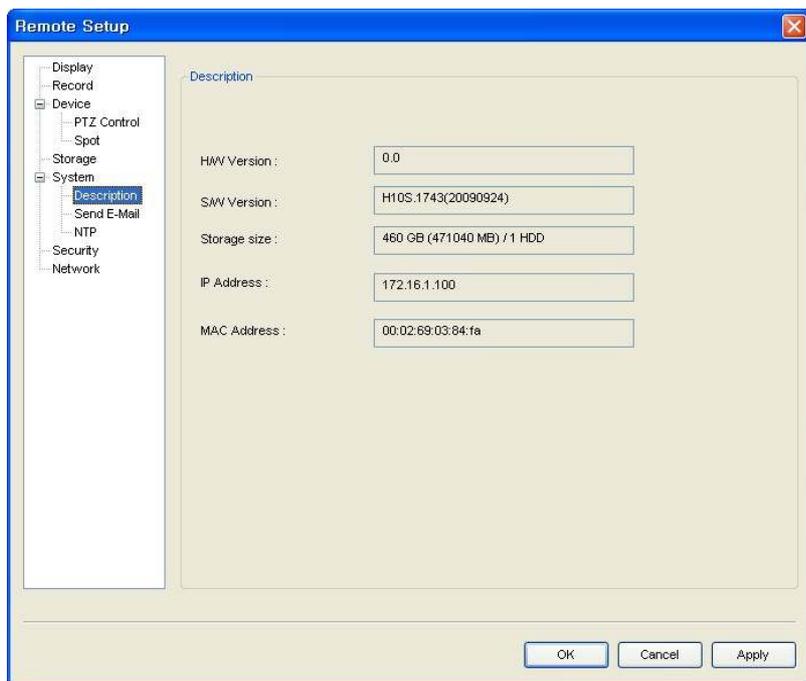
U.S.A.: USA daylight saving time applicable.

EU: EU daylight saving time applicable. Select the GMT Area.(+00:00 to +05:00)

OTHER: Sets the start and end dates of the daylight saving period for time zones other than USA and EU. (Begin/End)

(Memo: A confirmation dialog is displayed when [Apply] or [ok] is clicked if the date and /or time settings have been changed. The DVR is restarted and the date and time updated when [YES] is clicked on the confirmation dialog.)

Description: To check information on the DVR such as the version information.



Setting the Send E-Mail:

This setting is used to automatically send a notification e-mail to a specified address when an alarm occurs.

(Memo: The DVR will be forcibly restarted if a value on this screen is changed.)

The screenshot shows the 'Remote Setup' window with the 'Send E-Mail' configuration page selected in the left-hand tree view. The main area contains the following settings:

- Send E-Mail:** A dropdown menu set to 'ON'.
- IP Notification:** An unchecked checkbox.
- Transmission Mode:** A dropdown menu set to 'IMAGE'.
- Event Alarm:** A dropdown menu set to 'OFF'.
- Mail Address:** An empty text input field.
- Mail Server Name:** An empty text input field.
- ID:** An empty text input field.
- Password:** An empty text input field.
- Return Mail Address:** An empty text input field.

At the bottom of the window are three buttons: 'OK', 'Cancel', and 'Apply'.

Send E-Mail: Sets whether to enable/disable e-mail sending function.

IP Notification: To send a notification e-mail when the DVR IP address is changed, check the checkbox.

Transmission Mode: Enables sending image of the channel that triggered the alarm when an alarm event is triggered.

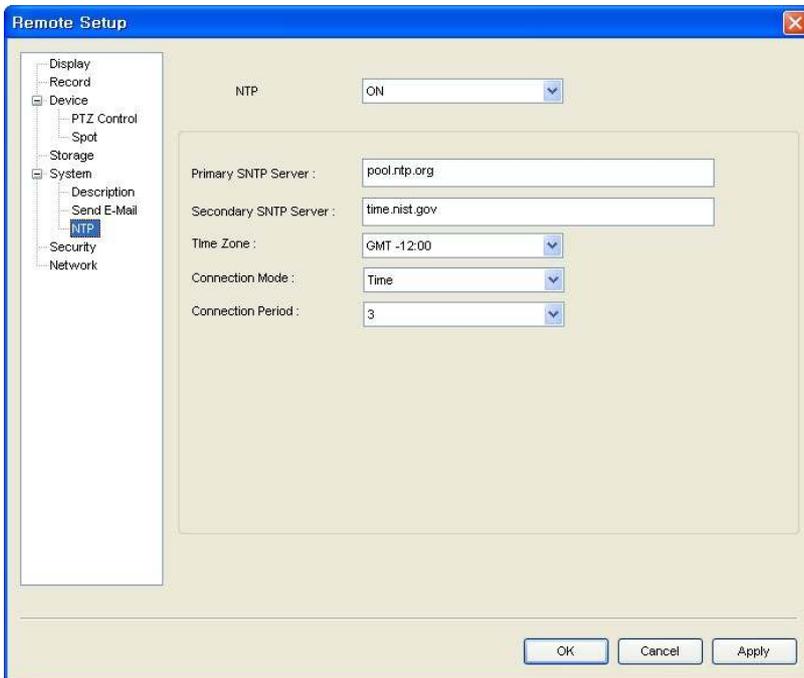
Event Alarm: Sets whether to enable/disable sending e-mail reports on the channel that triggered the alarm when an alarm event is triggered.

Mail Address: Input the destination address.

Mail Server Name: Input the SMTP server name as well as the user ID and password.

Return Mail Address: Set the source e-mail address to be notified to the destination.

Setting the NTP: It allows synchronizing the time using an internet of LAN NTP server.



NTP: Sets whether to synchronize the time using NTP server or not.

Primary SNTP Server: Input the NTP primary server address.

Secondary SNTP Server: Input the NTP secondary server address.

Time Zone: Select the time zone.

Connection Mode: Select the connection mode to NTP time server.

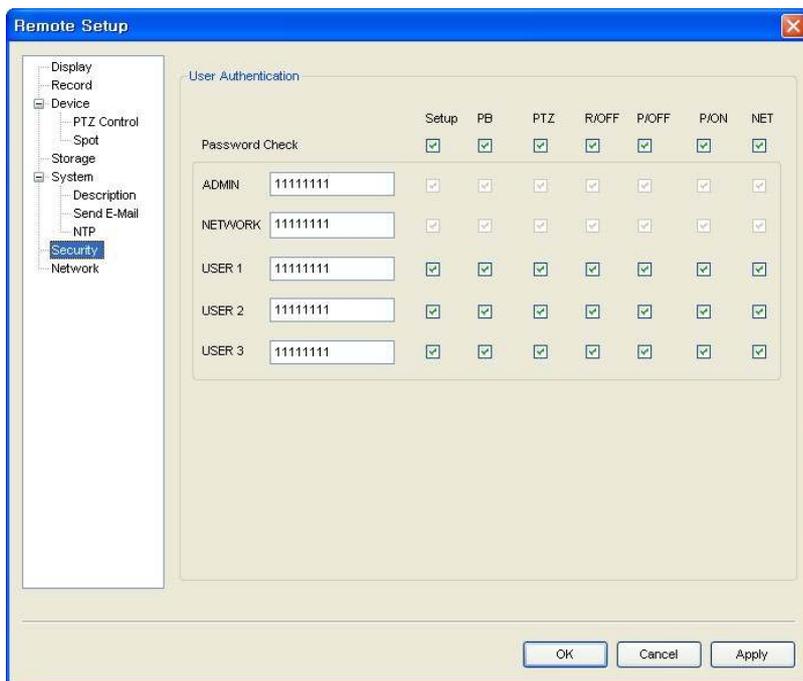
Time: Synchronize the time at the time that is set in the connection period.

Interval: Synchronize the time by hour that is set in the connection period.

Connection Period: Set the connection period.

7-6. Setting the Security

Select **Security** to set password check for user authentication for the specific functions such as SETUP, PLAYBACK, PTZ control, RECORD OFF, PLAYBACK ON/OFF and NETWORK connection.

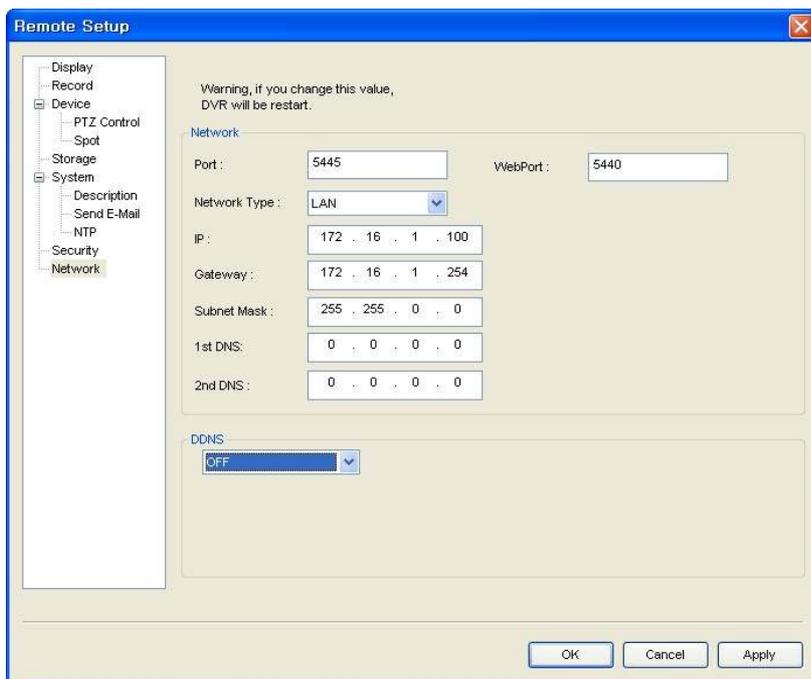


Checking the checkbox: Ask for a password when the given function is selected for all users.

7-7. Setting the Network

Select **Network** to set information about the DVR network.

(Memo: If a value on this screen is changed, the DVR will be restarted.)



Port: When connecting multiple DVRs to the network, set a unique port number to each DVR.

Web Port: Set a web server port number.

Network Type

LAN: The address setting mode is manual. Input IP, Gateway, Subnet Mask, and DNS server IP.

DHCP: The address setting mode is automatic. Addresses and other information do not need to be set.

ADSL: Input the login ID and Password.

DDNS: Sets whether to use DDNS service or not.

DDNS SERVER SET: Sets the DDNS server address.

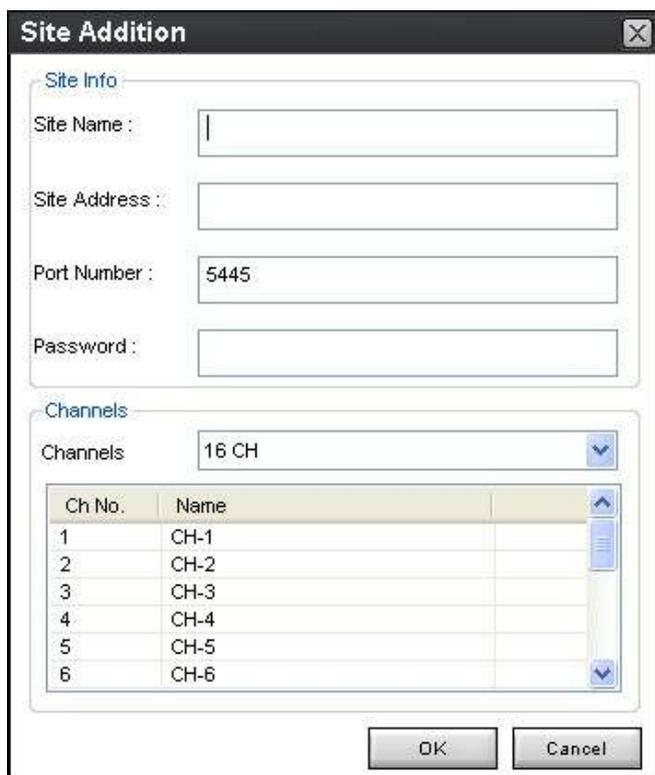
DDNS Interval: Sets the DDNS interval.(5-60min)

8. Operation

8-1. Addition, Delete, and modify of DVR sites

8-1-1. Addition of sites

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



The 'Site Addition' dialog box contains two sections: 'Site Info' and 'Channels'. The 'Site Info' section has four text input fields: 'Site Name', 'Site Address', 'Port Number' (with '5445' pre-filled), and 'Password'. The 'Channels' section has a dropdown menu set to '16 CH' and a table with 6 columns: 'Ch No.', 'Name', and three empty columns. The table lists channels 1 through 6 with names CH-1 through CH-6. At the bottom are 'OK' and 'Cancel' buttons.

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

- 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.bestddns.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.



8-1-2. 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.

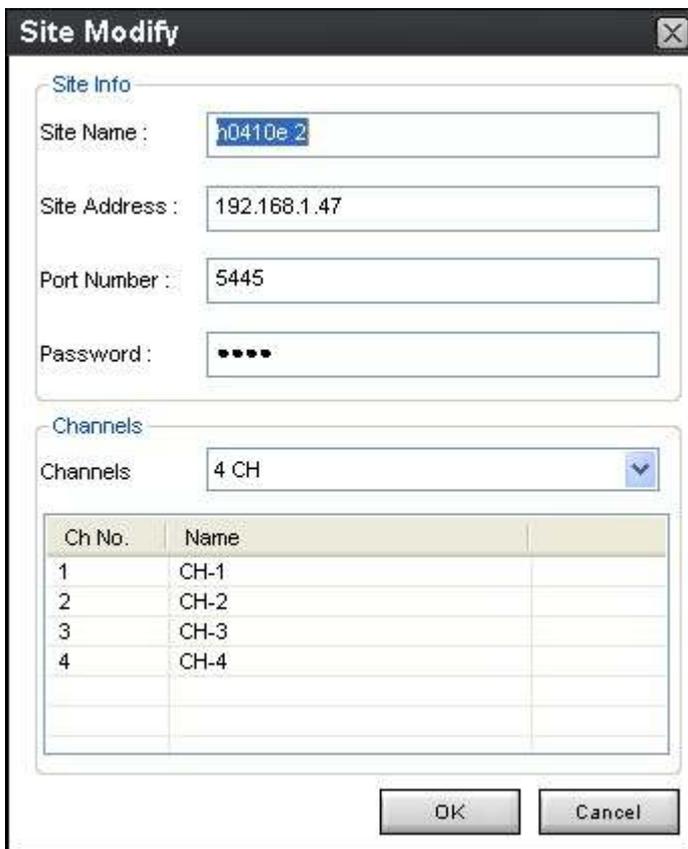


8-1-3. Modify of sites

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



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



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

8-2. Connect and Disconnect

8-2-1. Connect

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



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



8-2-2. Disconnect

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



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

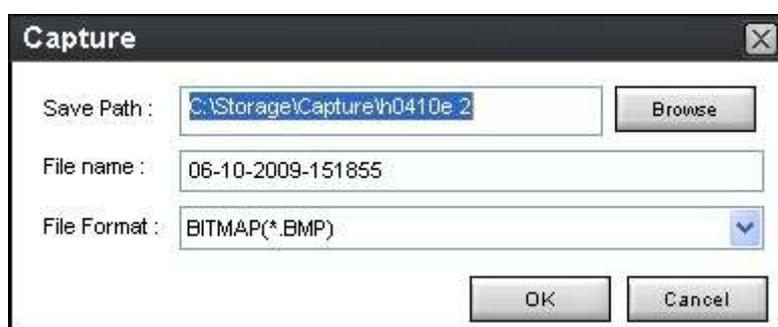


8-3. Still-image capture during Live

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

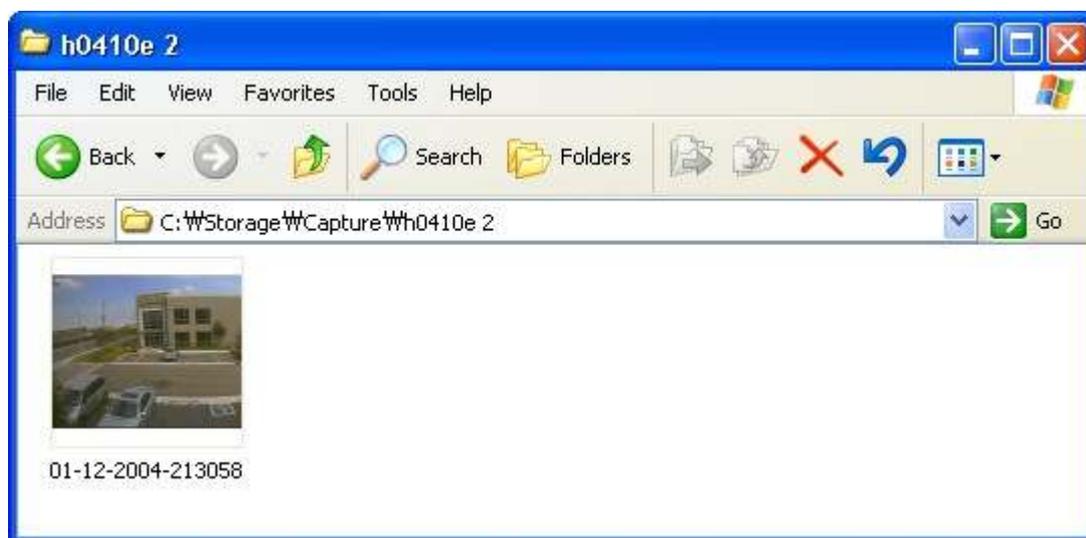


2. Click  CAPTURE button. And then a Capture window displays.



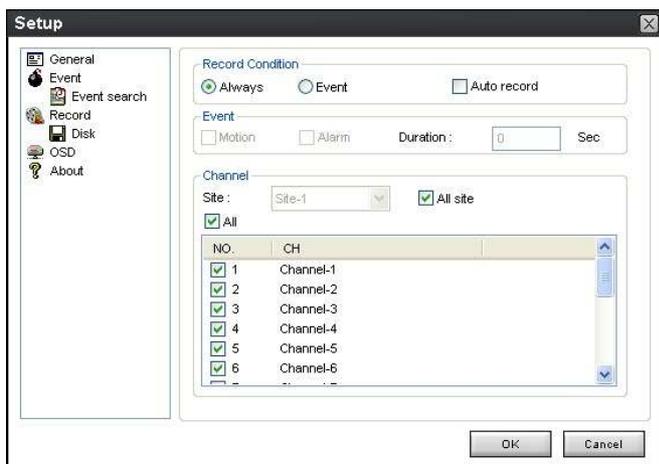
3. Set Save path, File Name, and File Format. And then click OK button.

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

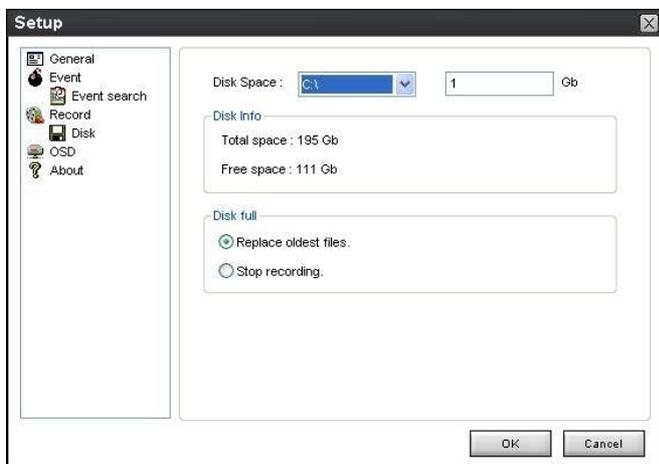


8-4. Recording video on local PC during Live

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

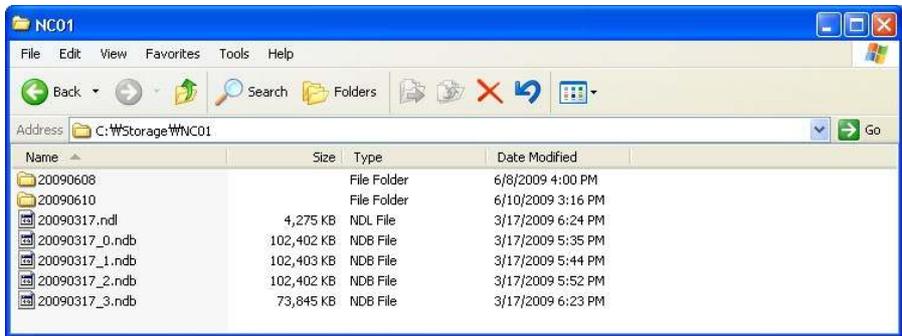


3. Select Disk and set the values.



4. Click RECORD ON button. And the color of button is changed.

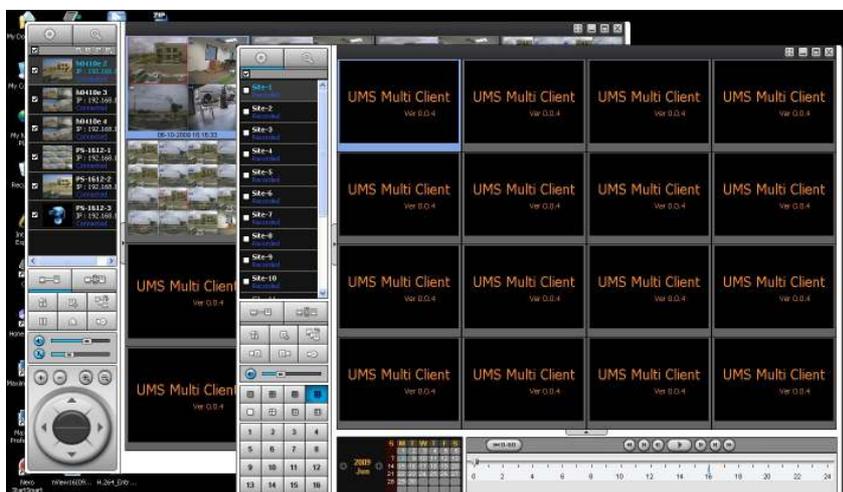
5. Live video data is recorded as set in Record and Disk setup. These video data can be searched and play-backed with Local Playback.



8-5. Local Playback and Remote Playback

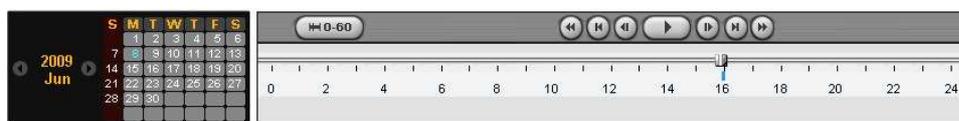
8-5-1. Playback of recorded video on local PC

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.

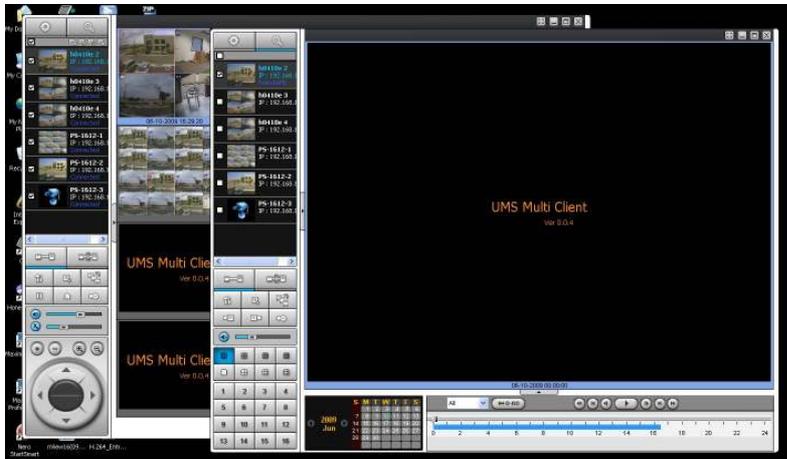


5. Video data that is recorded on local PC will be play-backed.



8-5-2. Playback of recorded video on remote DVR

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

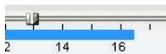


2. Select site to connect from the directory window.

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.



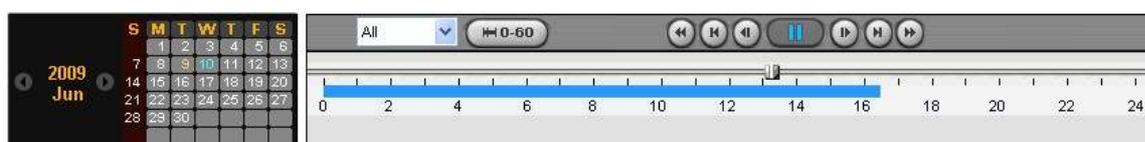
8-6. AVI Backup during playback

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

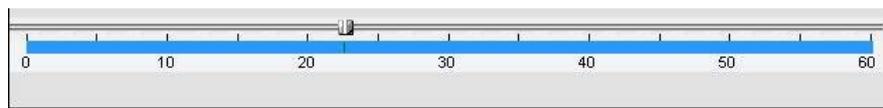
Notice for remote backup

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.



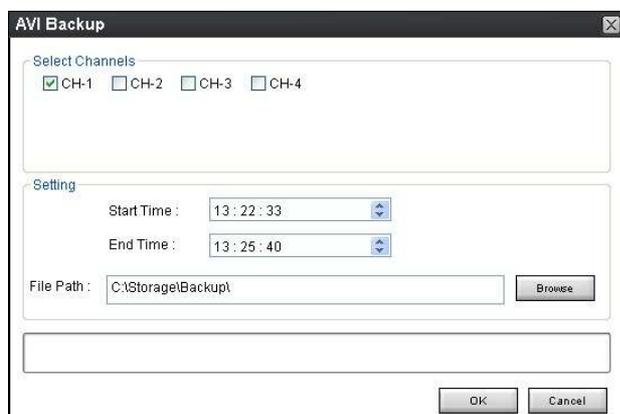
3. Click  MARK IN button, when the scale of the timeline is located on the target time as the beginning time of backup.



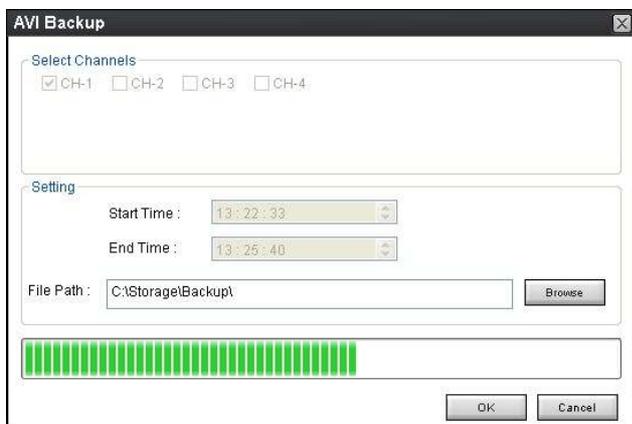
4. Set the ending time on the blue timeline by dragging the scale on the target time as the ending time of backup and clicking  MARK OUT button. Then, color of the timeline between the beginning time and ending time will be changed into dark Green.



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.



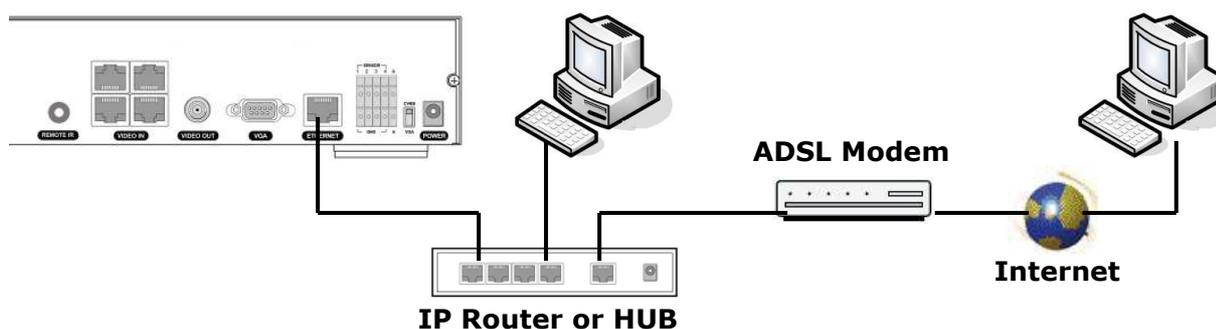
Notice
When PC doesn't have proper H.264 CODEC, the media players can not playback the AVI format video. Then install CODEC that is provided on the CD.

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

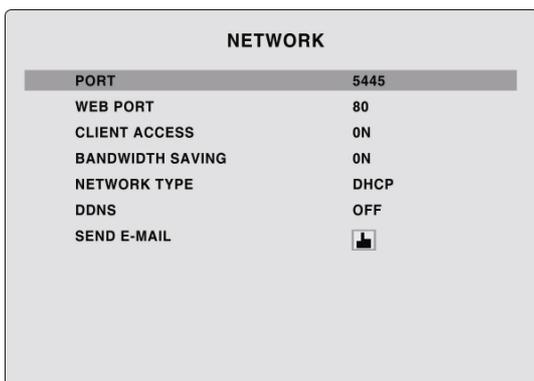
Ethernet adapter Local Area Connection:

    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.



- 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.)

Notice for remote setup

User must open 1 additional TCP port for remote setup. If this port is not open properly, the remote setup function does not work.

If DVR sets port number with 5445, 5455 TCP port which is the 10th from the basic port number 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