

<User's Guide>

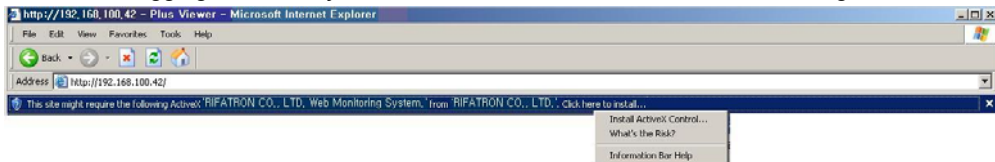
Plus Viewer

< Plus Viewer (web monitoring) >

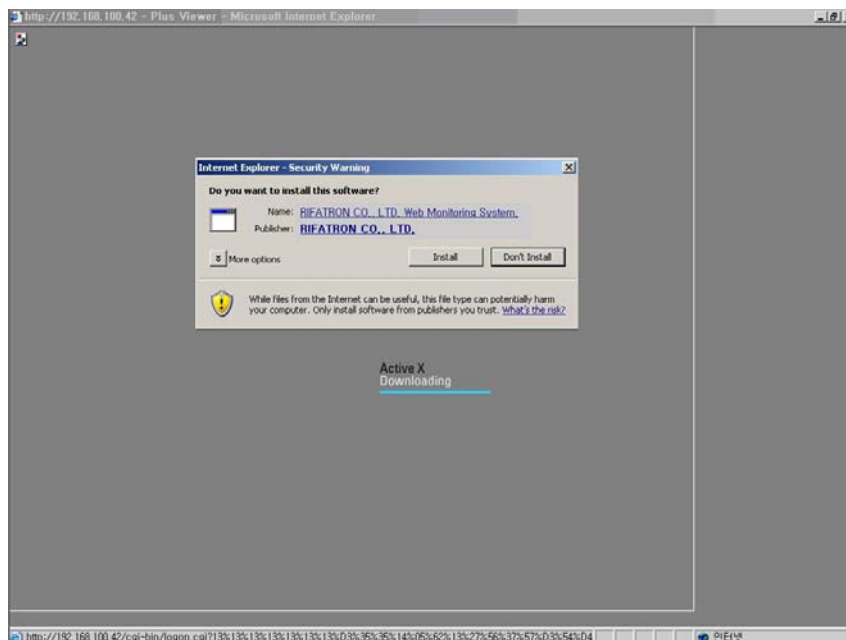
1-1 Access Method

The user can access the DVR system through the web.

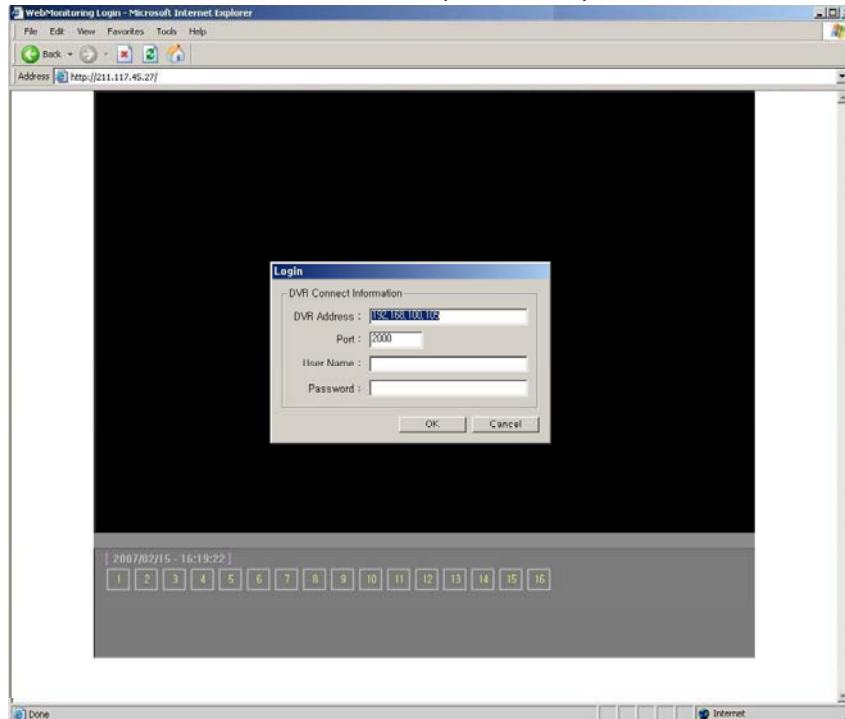
- ① Enter the IP for the DVR system in the address field of the web browser.
 - ② The ID and password are the same as those of the user account set in the DVR system.
- After logging on to the system, install ActiveX for Windows XP SP2 or higher.



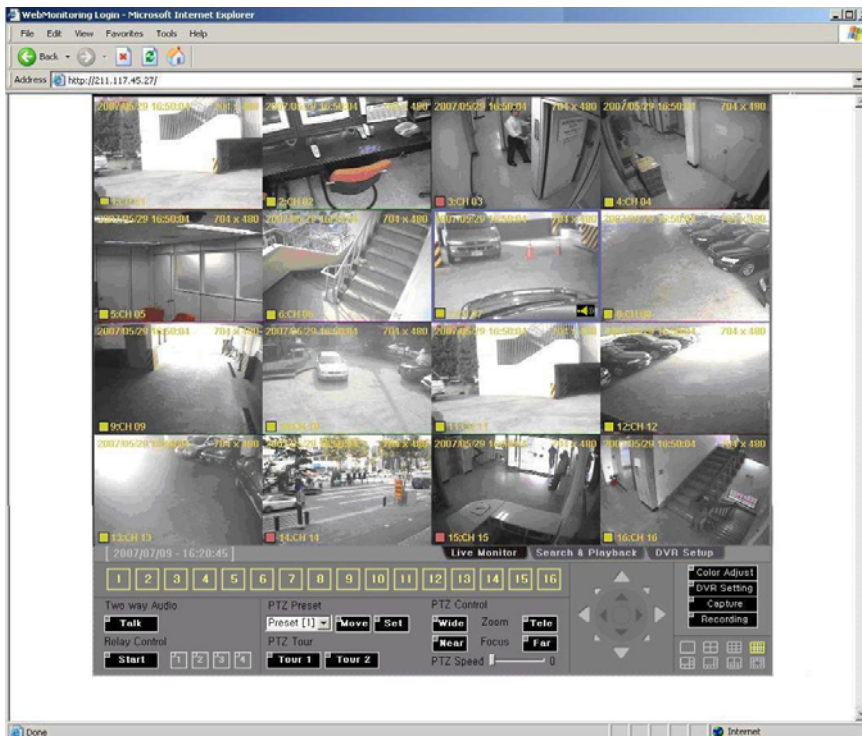
- ③ On the message window, click [Install] as shown below.



- ④ After installation, enter the DVR address, port, ID, and password as shown below.



- ⑤ If login is successful, a real-time monitoring screen appears as shown below.

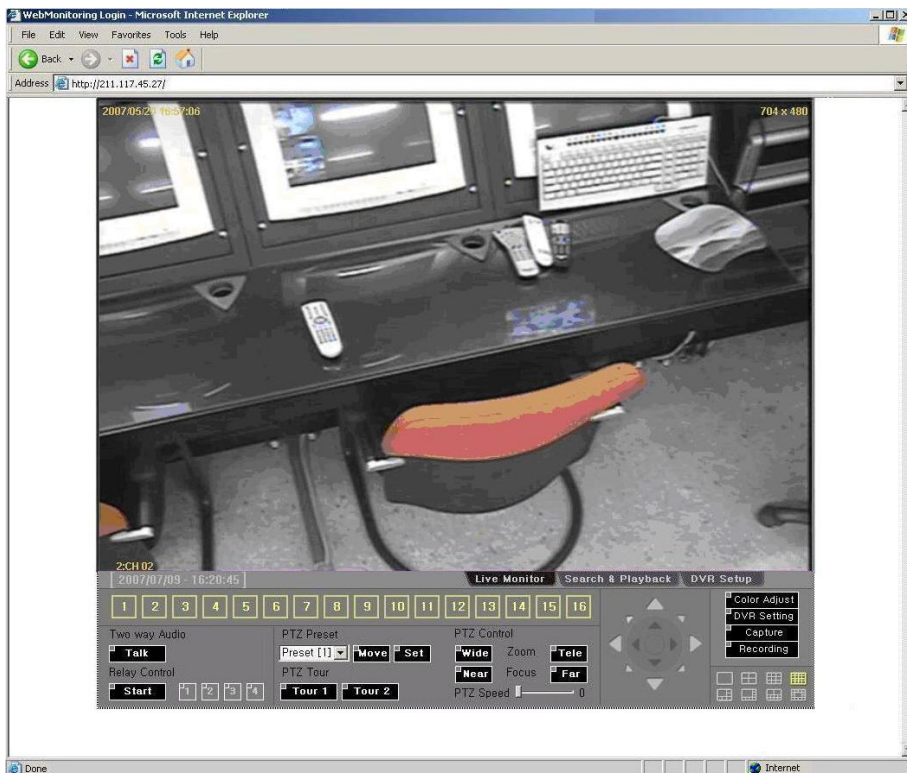


1-2 Description of the Basic Features

- ① The numbers below indicate the channels. Clicking the corresponding channel causes it to be displayed in full screen.



- ② Enlarged view of Channel No. 2



- ③ Clicking a Live screen causes the channel to be selected and the border of the corresponding channel to be displayed in a different color (the figure below shows the resulting screen when Channel No. 7 is selected).



- ④ Double-clicking the corresponding channel causes it to be displayed in full screen.

1-3 Audio

- ① For Audio channels, the following icon is displayed:  (Channel number 7).



- ② Clicking the Audio channel causes the icon to change to  and Audio to be outputted.

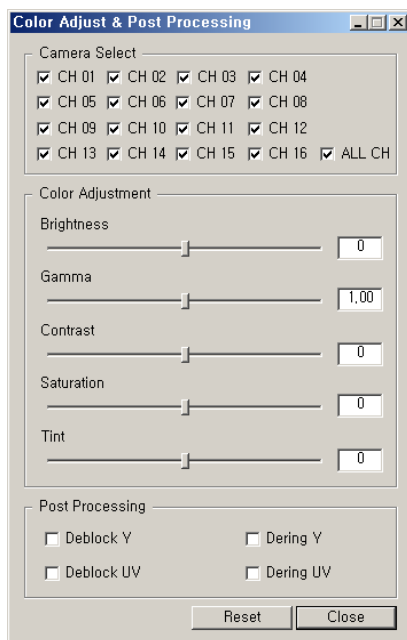


1-4 Color Adjustment

- ① To adjust the displayed colors, click Color adjustment.



- ② After adjusting the displayed colors, click Close to save the setting and to close the window.

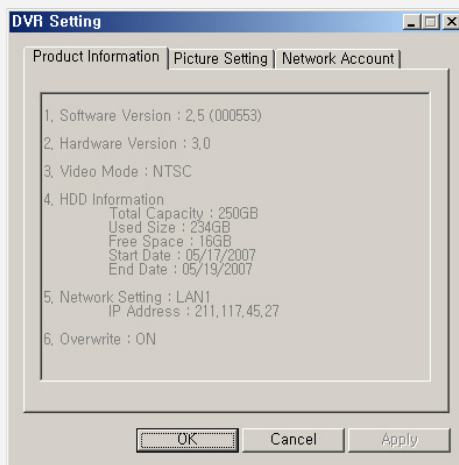


1-5 DVR Network Setting

- ① To verify information on the current DVR setup, click DVR Network Setting.



② Product information



1. Software version: 00 (build number)
2. Hardware version
3. Video type
4. Hard disk information
 - Total space
 - Used space
 - Remaining space
 - Start date of recording
 - Last date of recording
5. Network setup information
6. Whether to allow overwriting or not

③ Picture Setting is used to set the resolution, video quality, and frame speed of an image.

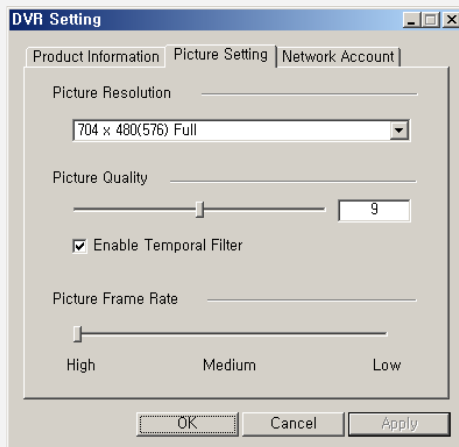


Image resolution

This is used to adjust the resolution of an image. The lower the resolution is, the higher the transmission speed (CIF > Field > Full).

Image quality

This is used to adjust the picture quality. The higher the picture quality is, the higher the compression rate (for low picture quality, the network transmission rate increases).

Apply temporal filter

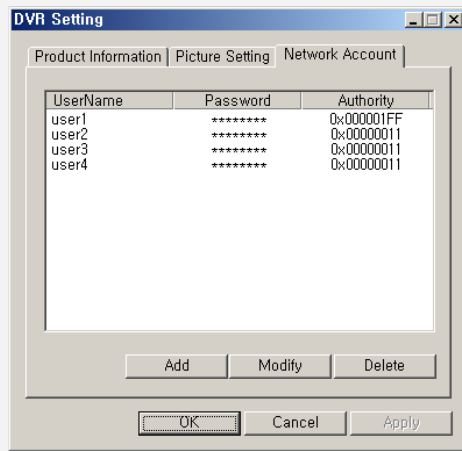
This removes noise from the images, reduces unnecessary images, and increases the network transmission speed.

Image transmission rate

This controls the frame rate for images. The following is the frame rate for 30 frames:

High: 30; Medium: 15; Low: 7.5

- ④ Network account is used to display user information.

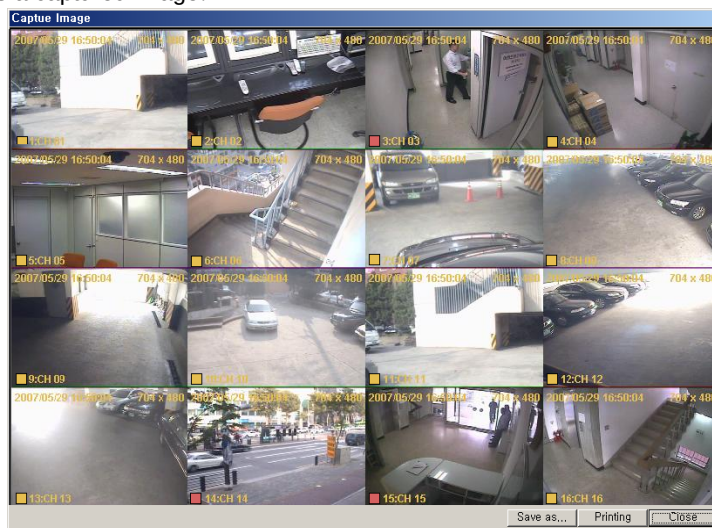


1-6 Capture

- ① Clicking the capture button in Live mode enables capturing the current live image.



- ② This is a captured image.



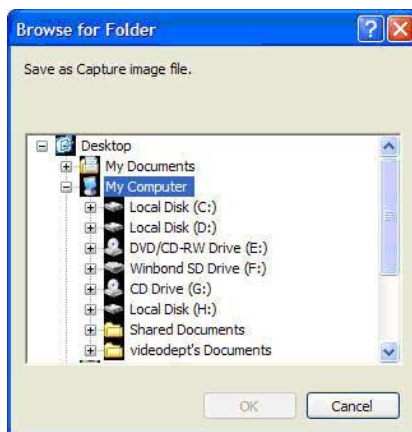
- ③ The captured image can be stored in JPG format and outputted through the printer.

1-7 Recording

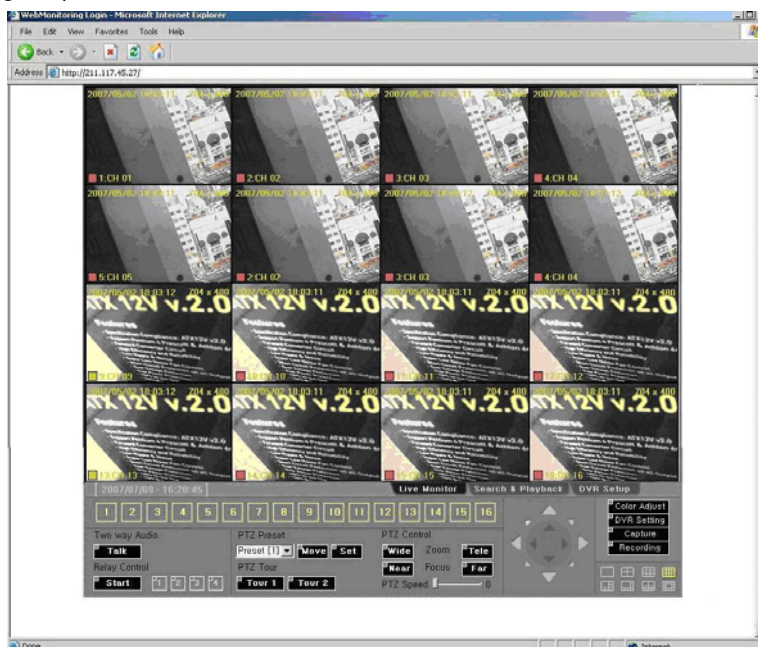
- ① Clicking the video record button in Live mode enables recording the current live image



- ② After clicking the video record button, assign the path to store the recorded file



- ③ Recording starts once the path is assigned. Clicking the OK button in the message box stops the recording and causes the recorded data to be stored as an AVI type file in the assigned path

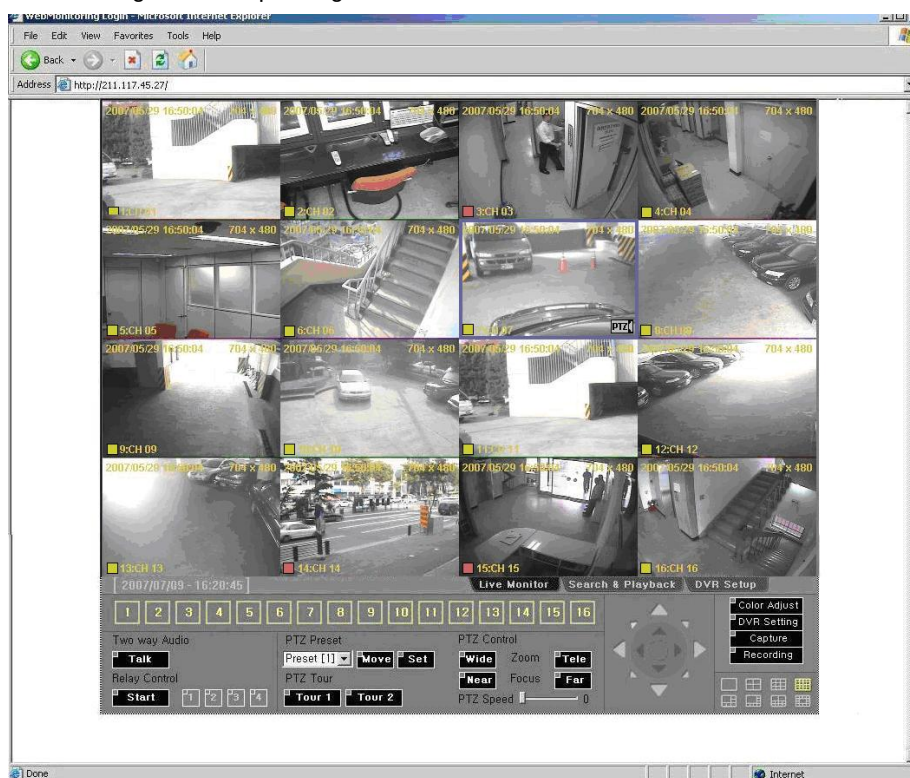


1-8 PTZ control

- ① The user can control the PTZ camera remotely using the PTZ control feature



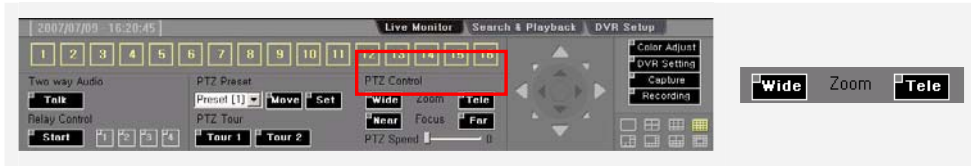
- ② Clicking the channel marked with **PTZ** (Number 7 channel in the figure) enables controlling the corresponding PTZ camera.



- ③ Pan/Tilt Adjust– After selecting the channel where a PTZ camera is connected, Up, Down, Left, and Right adjust can be executed using the following controls.



- ④ Zoom in / Zoom out Adjust - After selecting the channel where a PTZ camera is connected, adjust by clicking the Wide/Tele button controlling Zoom in the PTZ control group.



- ⑤ Focus Adjust - After selecting the channel where a PTZ camera is connected, adjust by clicking the Near/Far button controlling the Focus in the PTZ control group.



- ⑥ Preset Adjust - After selecting the channel where a PTZ camera is connected, the PTZ Preset position and number can be set up and moved using the Move/Register button in the PTZ Preset group.



- ⑦ Speed Adjust - After selecting the channel where a PTZ camera is connected, speed can be controlled using the PTZ speed slide bar in the PTZ control group.



- ⑧ Tour Adjust - After selecting the channel where a PTZ camera is connected, the PTZ Preset position and number can be set up and moved using the Move/Register button in the PTZ Preset group.



1-9 Two way Audio

- ① The Two-way Audio feature is used to play voice data in the DVR system as transmitted to the DVR system by the user from PlusViewer using a microphone or an audio input device.



- ② Clicking the Talk button activates it and causes audio input data to be transmitted to the DVR (the Two-way Audio feature automatically stops after 2 minutes).



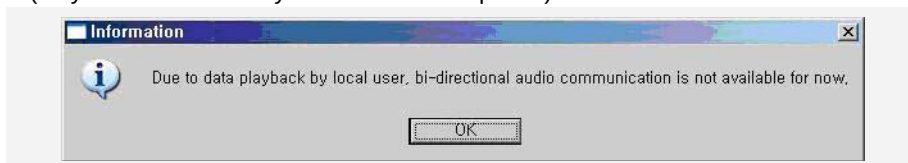
- ③ Clicking the Talk button again disables it and stops the transmission of audio input data.



- ④ If another user is already using the Two-way Audio feature, the following message will be displayed (only when other users finish using the Two-way Audio feature will it be available for use).



- ⑤ If Playback mode is in use in the DVR system, the following message will be displayed (may be used once Playback mode is completed).



- ⑥ If Playback mode is used by the DVR system while the Two-way Audio feature is in use, the following message will be displayed, and the Two-way Audio feature will be stopped.



- ⑦ Once the state that enables the Two-way Audio feature is reached, the following message will be displayed.

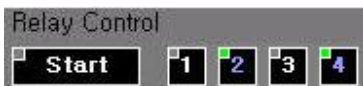


1-10 Relay Out

- ① The Relay Out feature can turn ON/OFF the devices connected to Relay Out even though the number of Relay Out supported varies by model (iMDVRS-16XX series 4, iMS-1610/810 4, iMS-410 1).



- ② The Relay Out state for the DVR system is displayed in real time.



- ③ NC/NO for Relay Out can be set up by clicking the Start button. Clicking the Start button again stops the Relay Out setup (the Start button is automatically disabled after 5 seconds).



- ④ If another user is already using Relay Out, pressing the Start button causes the following message to be displayed (only when the other users finish using Relay Out will it be available for use).



1-11 Viewing a Divided Screen

Clicking the Division Mode button after channel video is displayed on the monitoring window of the program screen enables viewing the divided screen.



📖 To view one channel in full screen for each divided screen mode, double-click the channel window. To return to divided screen mode, double-click the full screen.

Example) Selecting the 4/9/16-division mode



4-divided Screen Mode



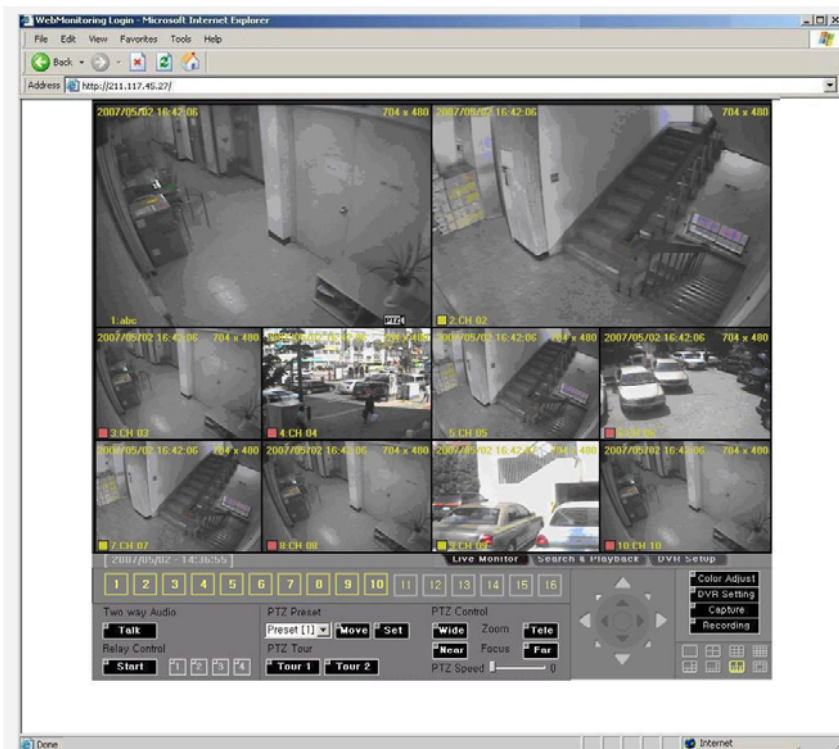
6-divided Screen Mode



8-divided Screen Mode



9-divided Screen Mode



10-divided Screen Mode

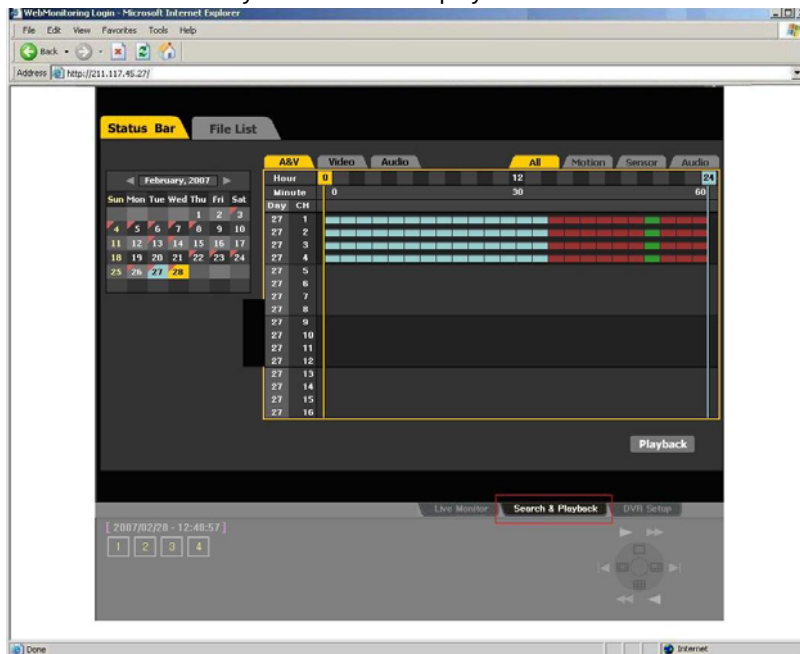


13-divided Screen Mode

1-12 Search and Playback

This feature is used to search and play video recorded from a remote place in real time.

- ① Click the Search and Play tab under the display to be moved.



1-12-2 Selecting the Search Method

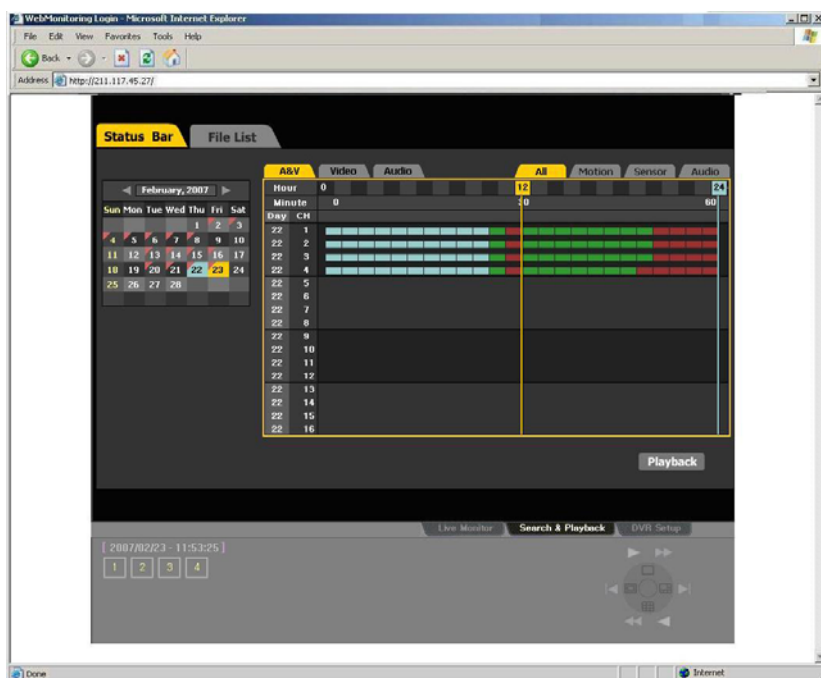
- ① **Status Bar** Search using the status bar– Display the recorded video as hour/minute bar graph.
- ② **File List** Search using the file list – Display the recorded video in the form of a file list.

1-12-3 Search and Playback

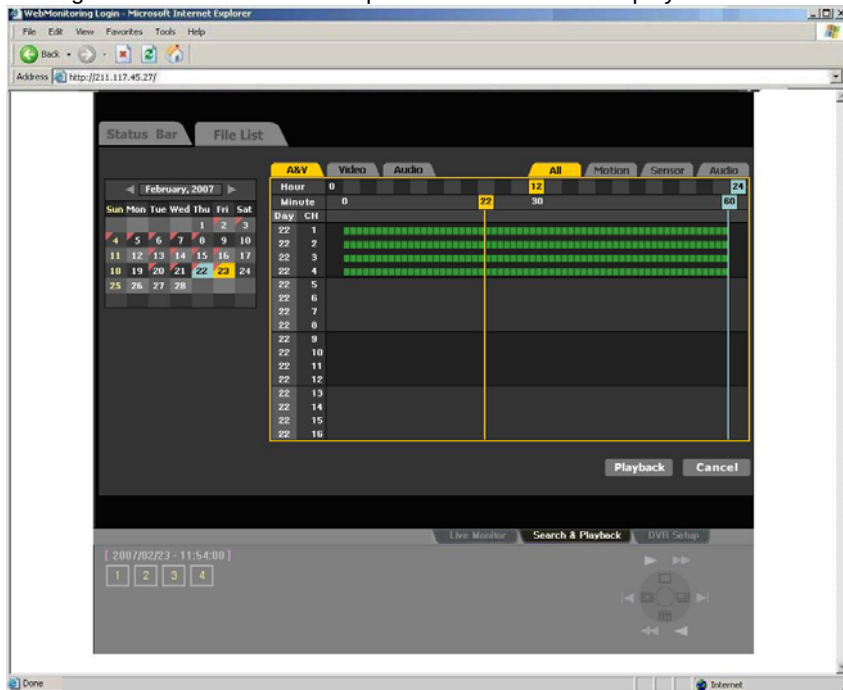
- ① On the Search window, select the search type by clicking **Status Bar** or **File List**.
- ② Select the corresponding date from the calendar. A date with the recorded video is then displayed separately.



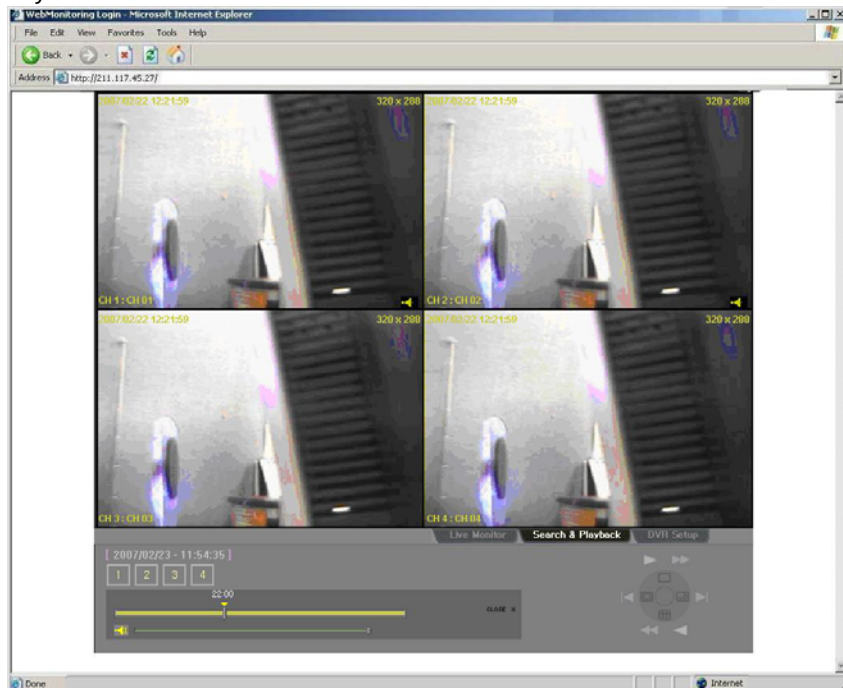
- ③ Select the date and time and click **Playback**. The following screen is then displayed:



- ④ Go to the desired minute and click **Playback**. The video will then be played. Clicking **Cancel** causes the previous screen to be displayed.

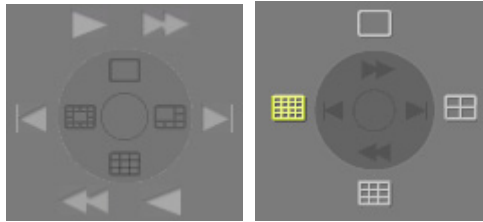


- ⑤ Playback Screen



1-12-4 Playback Control

- ① Screen division and playback speed adjustment are possible through the controller at the lower right corner.



1-12-5 Screen Description

A&V		Video	Audio	All	Motion	Sensor	Audio
Hour	0		6	12			24
Minute	0			30			60
Day	CH						
29	1						
29	2						

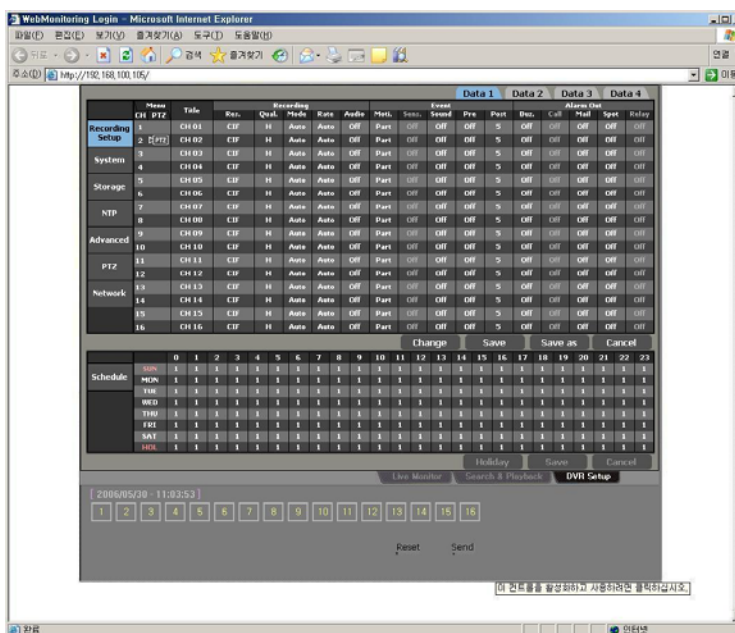
- ① Full – Displays all recorded videos in the list
② Video – Displays only files containing video
③ Audio – Displays only files containing audio
④ Full - Displays all recorded videos in the list

- ⑤ Motion – Indicates the area where motion events occurred
- ⑥ Sensor – Indicates the area where sensor events occurred
- ⑦ Audio – Displays the audio events
- ⑧ General images displayed using green bars, and events, using red bars

1-13 DVR Setup

The remote DVR setup screen includes Graphic User Interfaces (GUIs) such as the DVR OSD setup menu.

- ① **DVR Setup** Clicking DVR Setup causes the following screen to be displayed:



- ② Change the system setup on the DVR setup screen by clicking the corresponding item in the menu.

For more information on system setup, refer to Chapter 5. System Setup.

- ③ Finally, click the **Save** and **SEND** button to complete the setup

B)

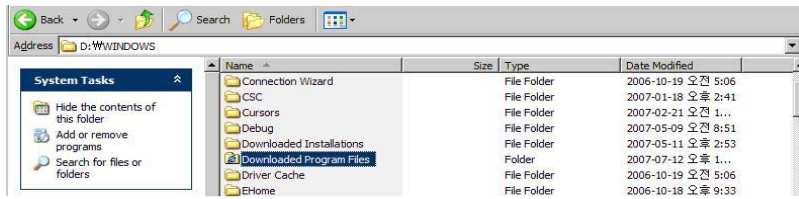


Troubleshooting During Plus Viewer Installation

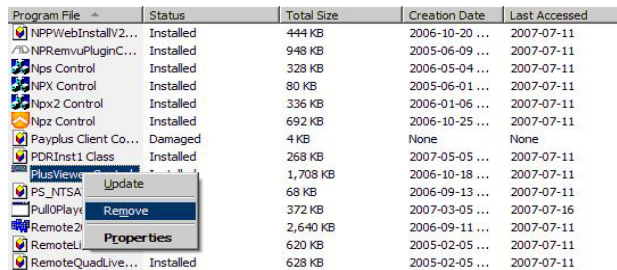
When attempting to execute the new Plus Viewer after accessing the newly upgraded DVR, downloading properly from the MS Internet Explorer may be impossible if an older version of Plus Viewer is executed. If this problem occurs, follow the directions given below and execute Plus Viewer after accessing the DVR website again.

- ① To delete the MS Plus Viewer Active X Program, go to the Windows directory in the

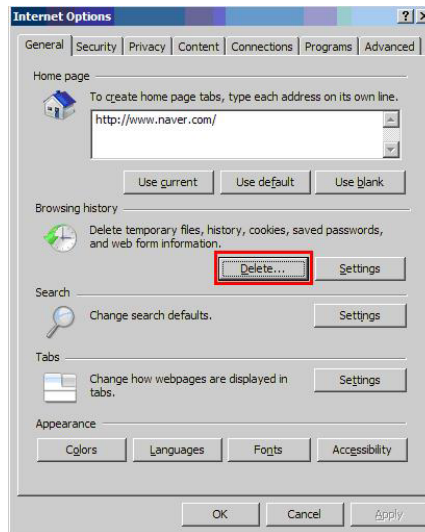
drive where the OS is installed. Afterward, go to the Downloaded Program Files folder (Windows 2000series C:\Winnt\Downloaded Program Files. Windows XP series C:\Windows\Downloaded Program Files).



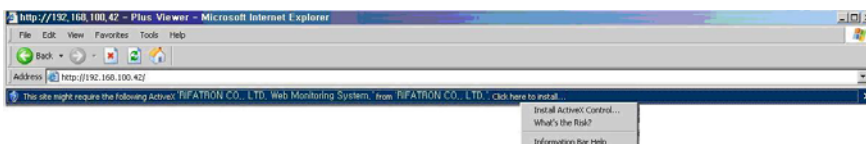
- ② In the Downloaded Program Files folder, right-click PlusViewer Control. In the popup menu, select Delete and delete PlusViewer Control as shown below.



- ③ Afterward, select Menu>Tools>Internet Options in the MS Internet Explorer browser to delete temporary Internet files. Delete the cookies and files in the Temporary Internet Files box.

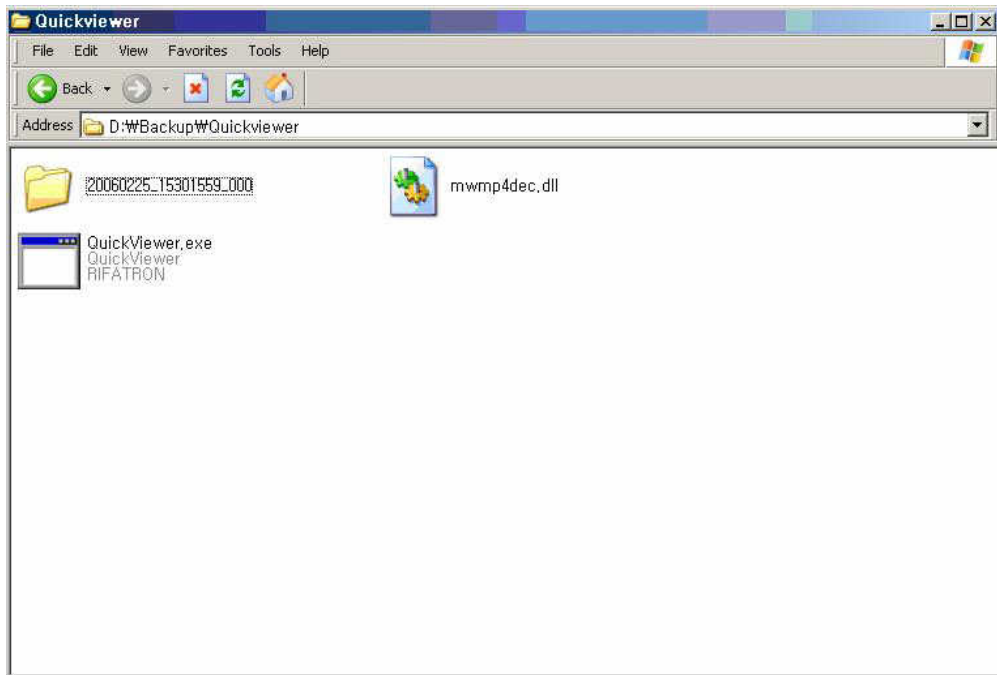


- ④ After deleting PlusViewer Control and temporary Internet files, go to the DVR system website again and reinstall PlusViewer Control to use the newly updated PlusViewer.



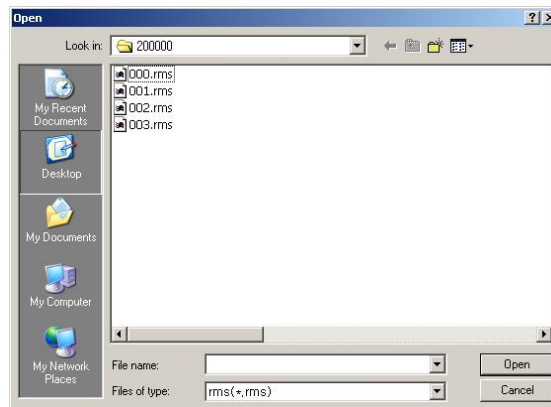
2 Quick Viewer

When the recorded data is backed up from the DVR system, a recorded video data folder as well as QuickViewer.exe and mwmp4dec.dll file will be created in the corresponding folder. To run Quick Viewer, execute QuickViewer.exe.



2-1 File Playback

- ① Click [File] – [Open]. A window containing the files to be played will then be displayed.



- ② Select the rms file for the channel to be played.



2-2 Description of Buttons

- ①  Fast Backward Play – Fast backward play
- ②  Backward Play – Normal backward play
- ③  Frame by Backward – Backward search frame by frame
- ④  Frame by Forward – Forward search frame by frame
- ⑤  Forward Play – Play
- ⑥  Fast-forward Play – Fast-forward play
- ⑦  Volume - Volume control
- ⑧  Watermark detection function

2-3 Description of the Video Screen Zoom in/Zoom out Feature

- ① During video playback, left-clicking the desired location causes the portion of the image where the pointer is placed to be enlarged as shown below (X2, X4).
- ② Right-clicking the enlarged image causes it to be reduced (X2, X1).



< X1 Screen >



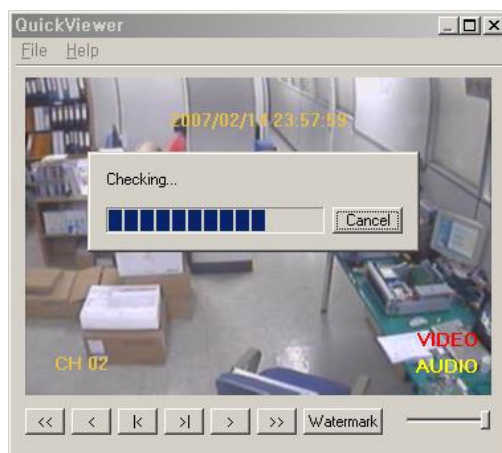
< X2 Screen>



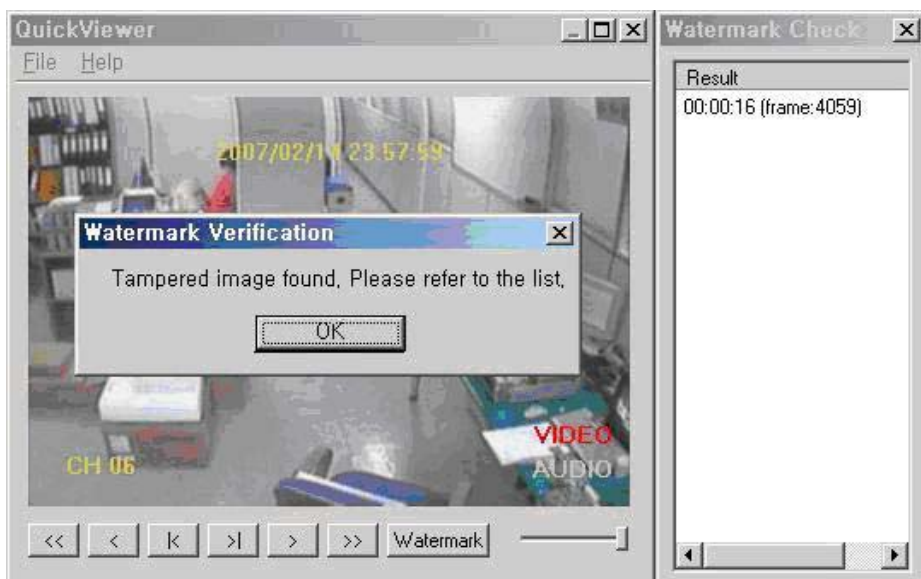
< X4 Screen>

2-4 Detecting Watermarks

- ① Pressing the Watermark button during playback or playback standby causes Watermark to be checked starting from the time the button was pressed as shown below.



- ② If the Watermark are checked, time information related to damaged images will be displayed as shown below.



- ③ If no damaged images are found during the Watermark check, a message box will be displayed as shown below. The check is then completed.



2-5 Version Information

- ① To check the version of Quick Viewer, click [Help] – [About].

