

USER'S GUIDE

POLYVISION - CMS

Remote Access Application

C/O/N/T/E/N/T/S

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1. Remote Management Software

1-1. Introduction

1) Overview

The POLYVISION-CMS is designed to manage the DVR through the network at a distance. The POLYVISION-CMS supports the remote management for the DVR of the following models.

- PVDR-1686/ 1685/ 1684/ 0884/ 0484L

You can use the following functions using the remote management software.

- Remote real-time image monitoring
- Remote search and playback of recorded images
- Smart Search and playback of images stored in the user computer
- System setting for the remote DVR
- Calculation of time available to record depending on the hard disk space
- Transform the MPEG-4 format download and recorded files to MPEG-1 format files
- System upgrade
- Other functions

2) Feature

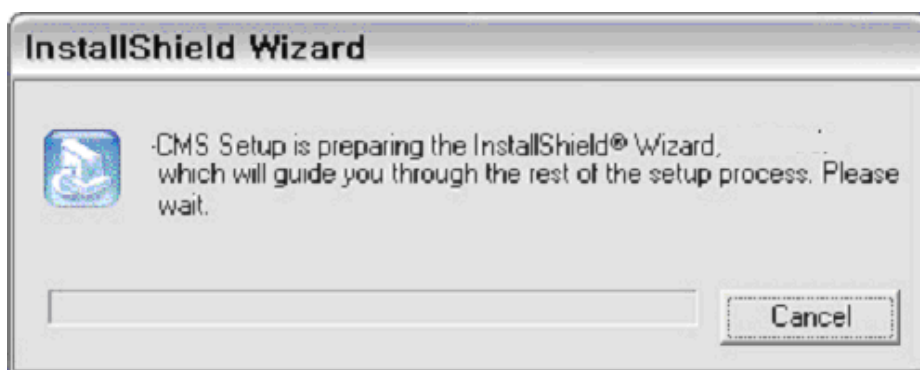
- With one computer, connects to the remote DVR up to 4,096 units
- Remote search and playback of recorded images
- Smart Search and playback of images stored in the user computer
- System setting for the remote DVR
- Calculation of time available to record depending on the hard disk space
- Up to 8 users can connects to one DVR at the same time
- With 16 channel connections, image data transmission at up to 120 fps
- real time monitoring, remote control record and replay, and full screen playback function
- Monitoring using Drag & Drop by channel
- Magnify / contract real time image
- Image and voice backup by network download
- Replay and smart search function of Backup PC file
- Backup of recorded images using the download
- Search and playback of backup local files
- Modifies, edits, saves and applies settings such as record/schedule/NTP/network of the DVR
- User-friendly Graphic User Interface(GUI)

3) System recommendation

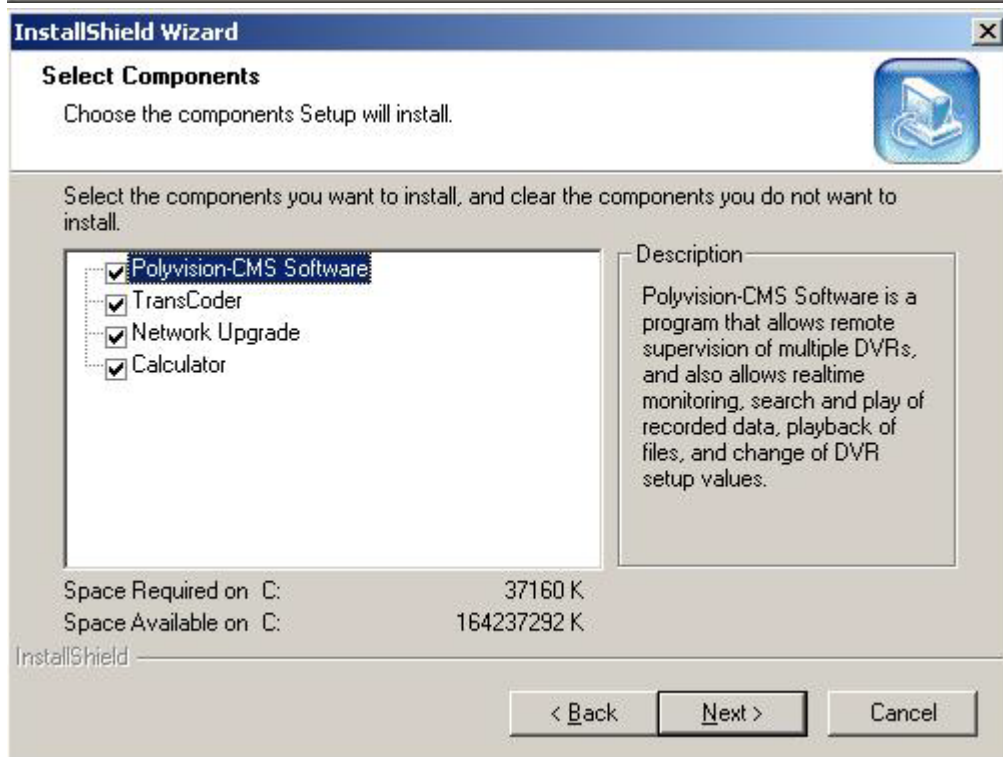
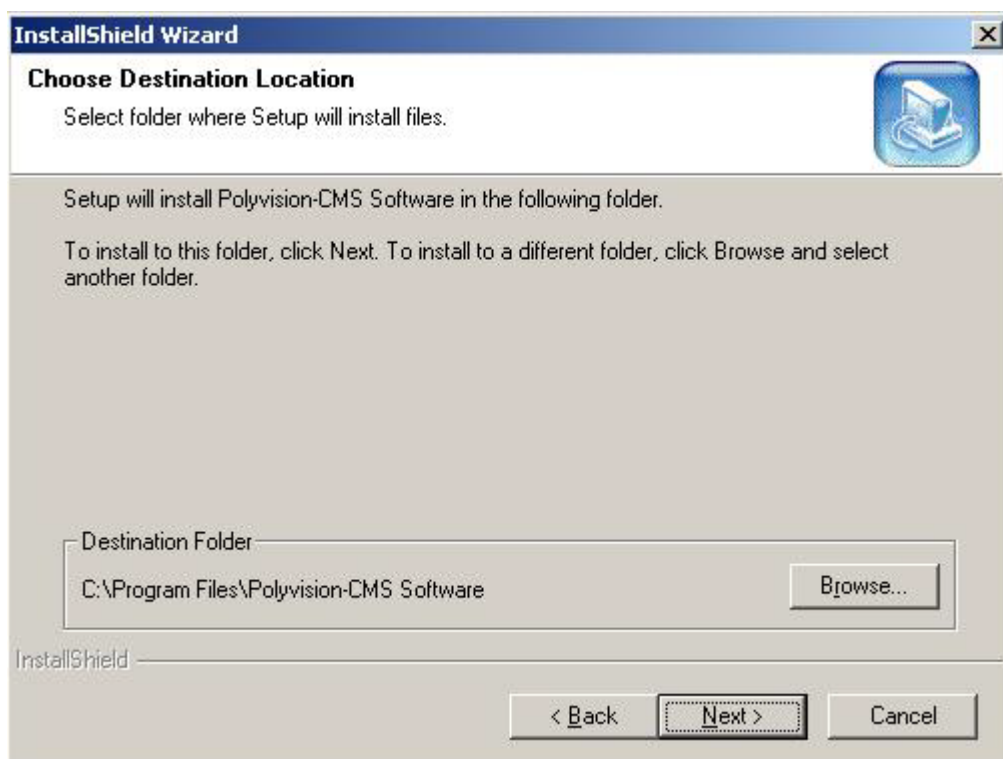
Software	* OS: Windows 2000 Service Pack 4, Windows XP Service Pack 2, Windows 2003 Service Pack 1, Windows Vista * Direct X 9.0 or higher * Internet Explorer 6.0 or higher
Hardware	* CPU: Intel Pentium 512 43.0 GHz * RAM: More than 512 MB (DDR) * Video Card: - NVIDIA FX chipset-based More than 128MB - ATI Radeon 9000 Series - ATI Radeon x3000 Series - Video memory of more than 64MB - Product supporting the YUV Format and Overlay * HDD: More than 20GB

1-2. Installing Software

- ① Insert the remote management software CD provided with the product into the CD drive.
- ② Click the Setup.exe file.
- ③ If the installation language selection window is displayed, select an installation language and click the [OK].
- ④ If the installation wizard is displayed, continue to install it by following the screen guide.







This remote management program allows the user to utilize real time monitoring, search, playback, change of DVR settings and system software upgrade by accessing several DVRs using the network.

TransCoder

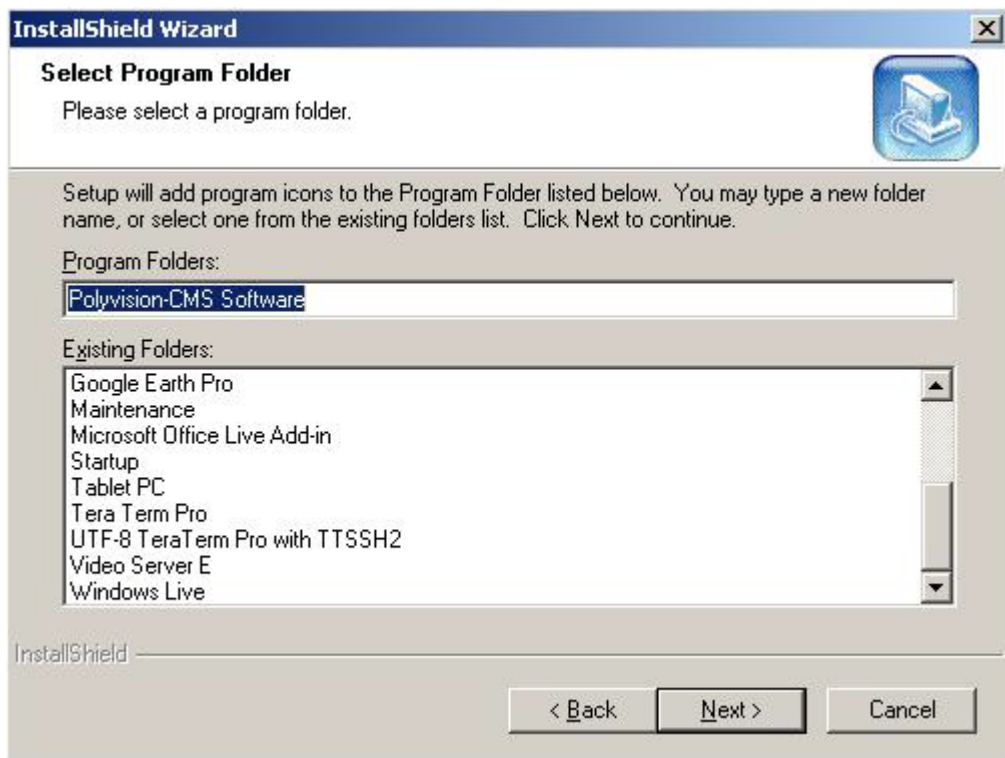
This program transforms the MPEG-4 format download and recorded files to MPEG-1 format files, allowing the user to see them using the Windows Media Player.

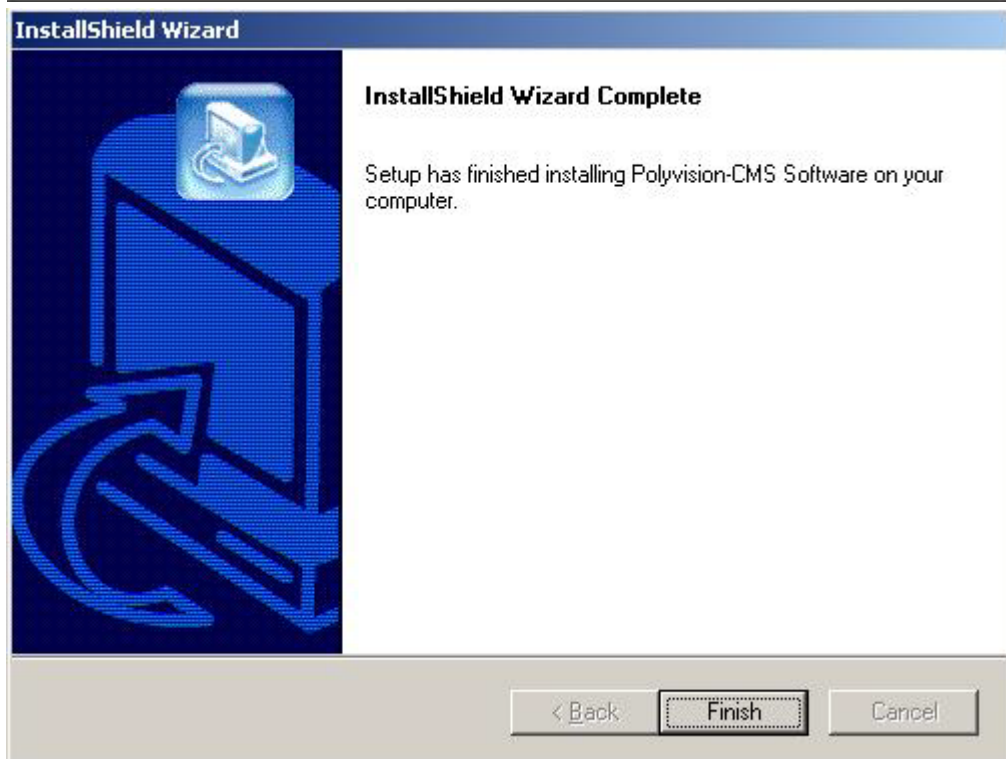
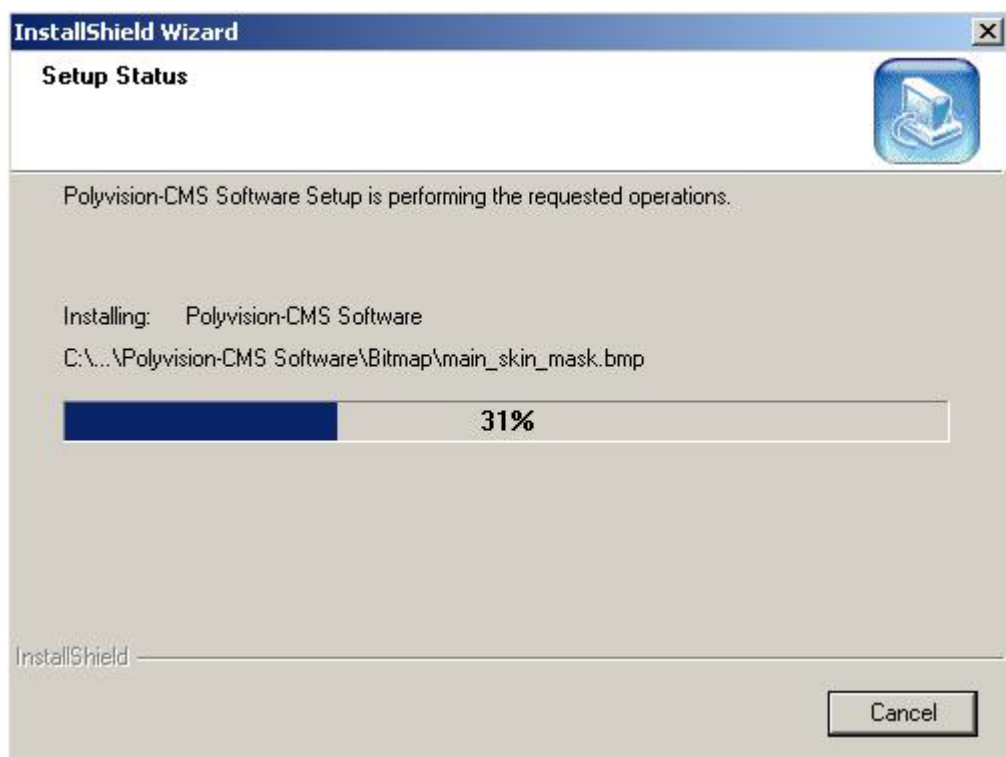
FlashDown

This update program is used to update the DVR by utilizing the RS232C Cable and Cross Cable. You could upgrade with using network IP address.

Calculator

The calculator program estimates the record duration depending on the HDD space and record settings.

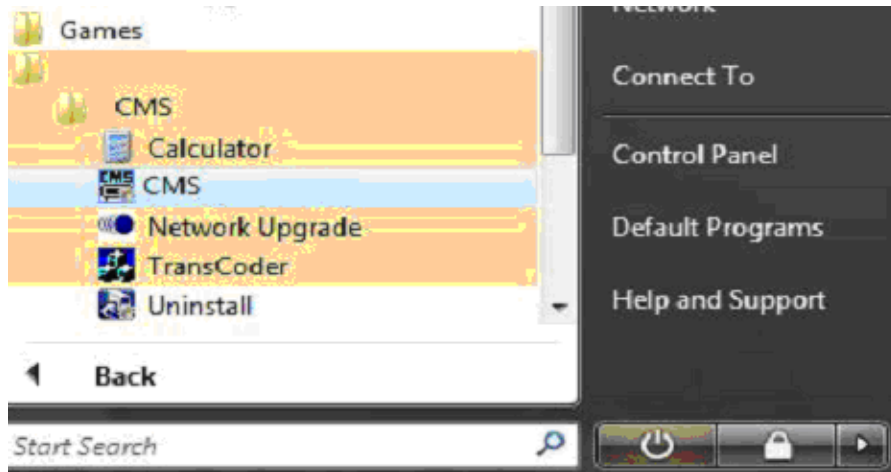




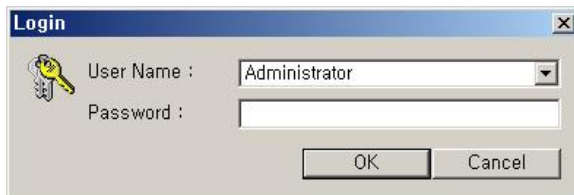
1-3. Starting the remote management program

1) Starting

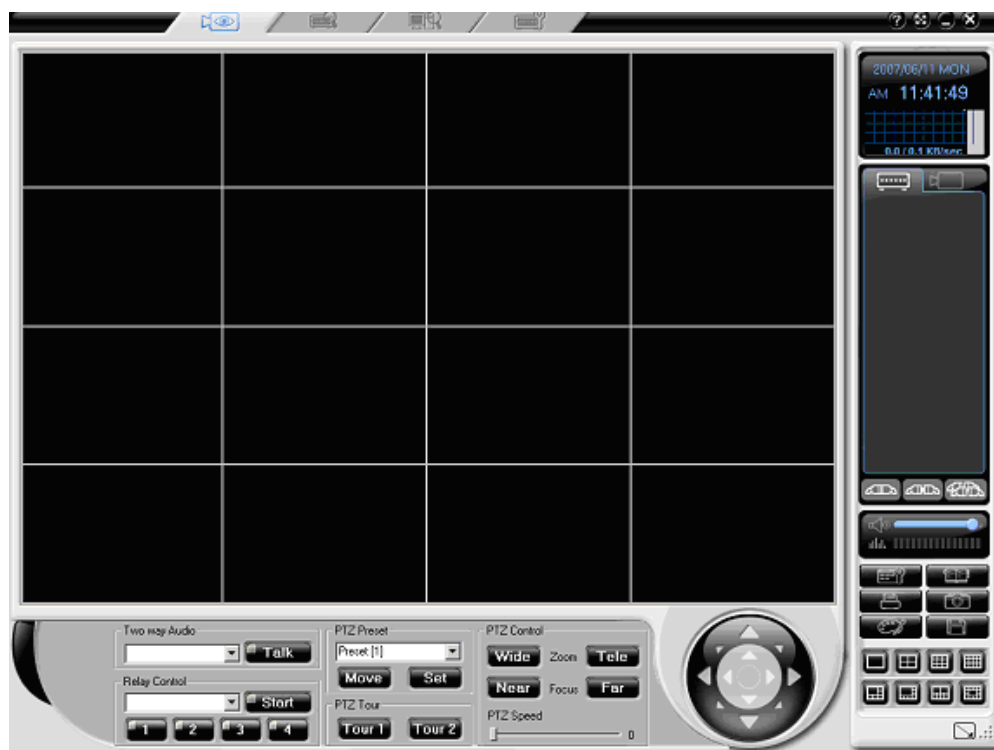
Click the Start > Programs > Polyvision > Polyvision-CMS



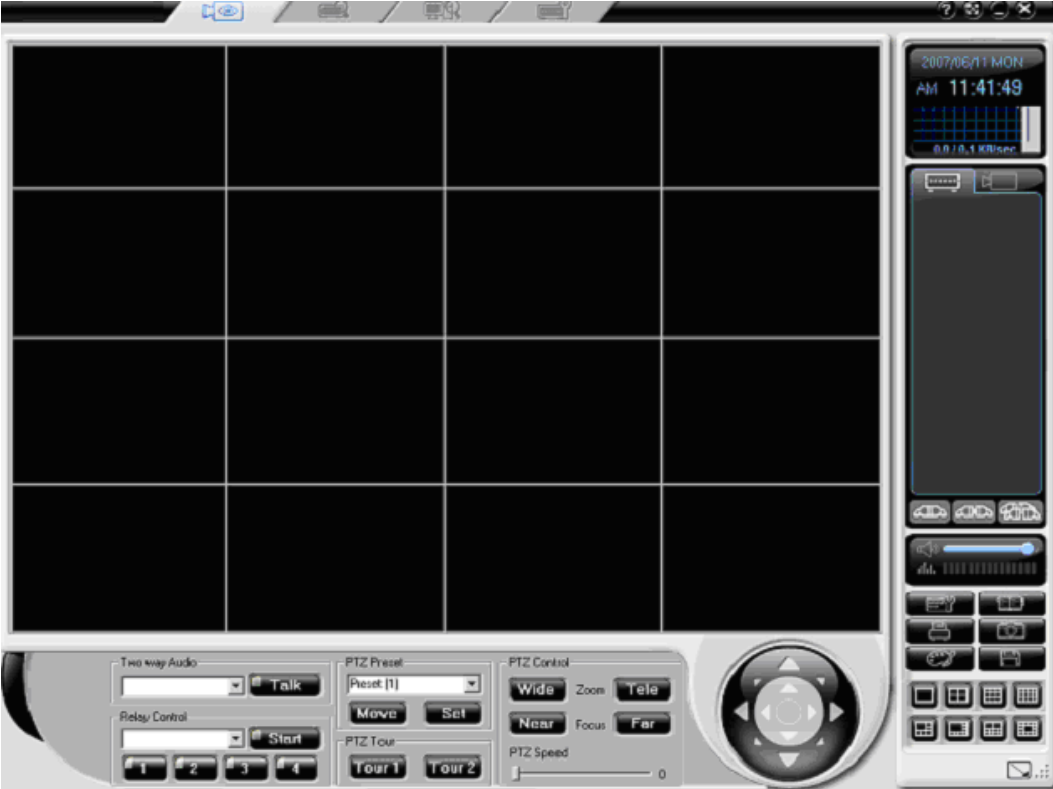
② When a user login window appears, enter the manager code to run a program (Default manager code: 1111111)



- ③ When the program is run, the following startup screen is displayed.



2) Graphic User Interface(GUI)



1 Function mode selection tabs



Remote real-time monitoring



Remote search and playback of recorded images



Search and playback of images stored in the user computer



System setting for the remote DVR

2 Window control and program exit buttons



Version information



Window minimization



Window maximization



Program exit

3 Function buttons



Environment setting



Address Book



Image Captures



Image Print



Controls of Image colors



Screen Record



User Group Control



1-channel divided screen mode



4-channel divided screen mode



16 / 25 / 36 / 49 / 64 channel divided screen mode



Real time screen rotation function



User screen setting addition



Full screen mode chosen from a user screen setting



Full screen mode



If you click the center circle of the circular button, it switches to Display / Playback / PTZ mode as in the following figure.

Playback Control Button



This buttons is used for the playback.

Forward Play / Reverse Play

Forward Single Frame Play / Reverse Single Frame Play

Fast Forward / Fast Rewind



- The speed control for the normal play ranges from 1/16X to 16X in 1-ch mode. (Units 1/16X, 1/8X, 1/4X, 1/2X, 1X, 2X, 4X, 8X, 16X)
- The speed control for the fast play ranges from 30X to 300X in 1-ch mode. (Units 30X, 60X, 90X, 120X...270X, 300X)
- The speed control for the single play ranges from 1X to 30X in 1-ch mode. (Units 1, 2, 3, 4, 5, ..., 28, 29, 30x)

PTZ Control Button



Button for controlling Pan/Tilt

 Button for use in each adjustment mode

PAN: Left/Right

TILT: Up/Down

DATE & network transmission information



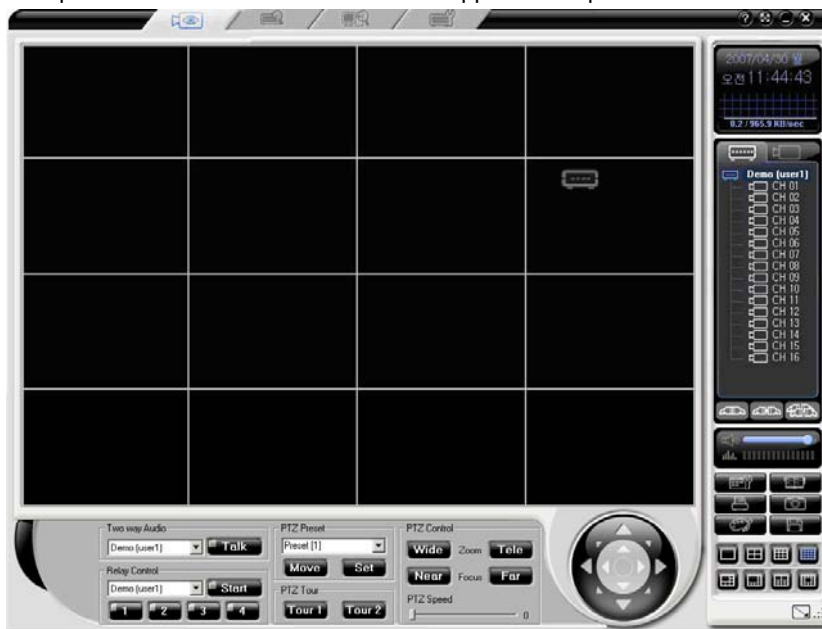
Displays the current PC date and time and total network transmission volume

1-4 Real-time monitoring

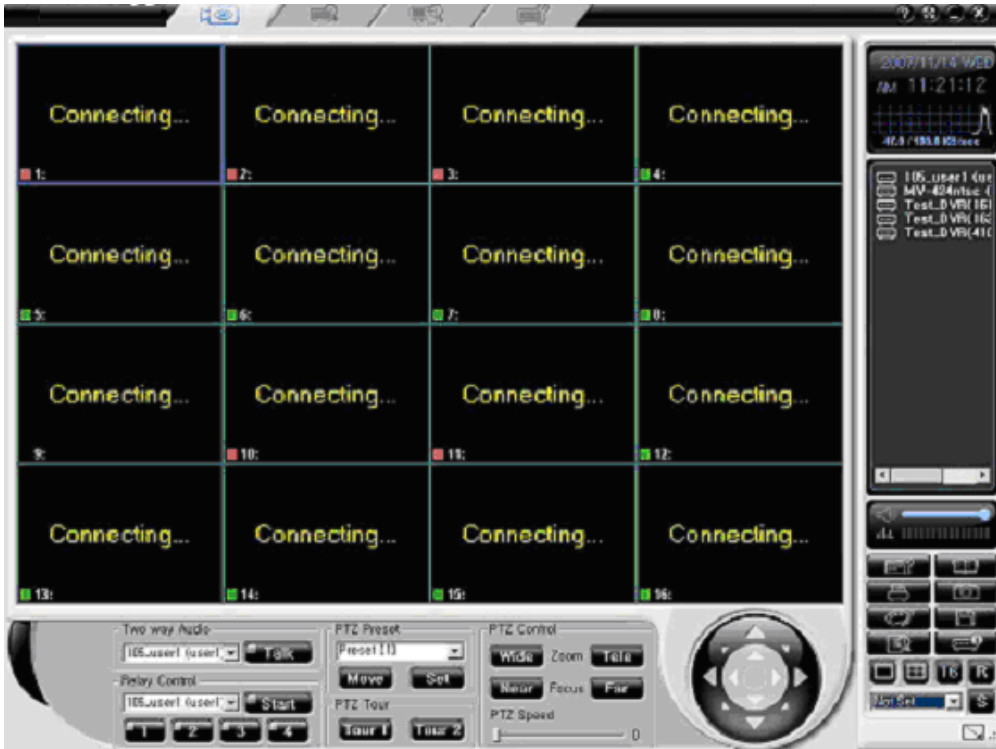
1) Viewing real-time images

(1) DVR unit real time monitoring

① For DVR unit real time monitoring, choose a DVR icon in the connection list on the right. Drag and drop it on the screen. Then screens will appear in sequence.



- ② Before connecting a screen, the messages of 'connecting,' 'no signal,' or 'screen disconnected,' will appear according to the camera's functional condition.



- ③ After screen connection, all channels of the DVR will appear on the screen.



(2) DVR camera unit view

① In screen setting by camera units, choose a camera from the connection list on the right. Drag and drop it, then you can see the screen of the camera



② To switch a channel, place the channel you want to choose. When there is a picture in the channel you chose, it will appear on the screen.



- ③ To stop pictures by a camera unit, take the channel out from the program by using drag and drop, and then the picture will stop.



2) Divided channel screen view

(1) Divided screen view

	After the picture of channels appears on the program screen move the divided mode button at the display mode button, then you can view the divided screen.
Example) 4-channel divided screen mode	

① 1 channel mode



1Channel
segmentation mode

Remote Management
Software

② 4 channel mode

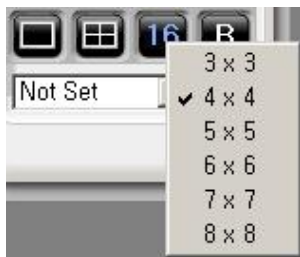


4 Channel
segmentation mode



A user can appoint and use a channel mode at the screen layout in 6, 8, 10, 13 channel mode. Consult screen layout function for more details.

(2) C x C Divided Screen View



C x C divided screen supports 3 x 3, 4 x 4, 5 x 5, 6 x 6, 7 x 7, and 8 x 8 screen mode. For divided screen mode setting, click the right button on CxC button, then a popup menu will appear as you see in the left picture. Click the channel mode you want to choose with the left button of your mouse.

Example) 9/16/25/36/49/64 divided mode choice

① 9 channel mode



9 Channel
segmentation mode

② 16 channel mode



③ 25 channel mode



④ 36 channel mode



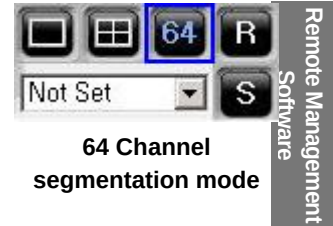
36 Channel segmentation mode

⑤ 49 channel mode



49 Channel segmentation mode

⑥ 64 channel mode



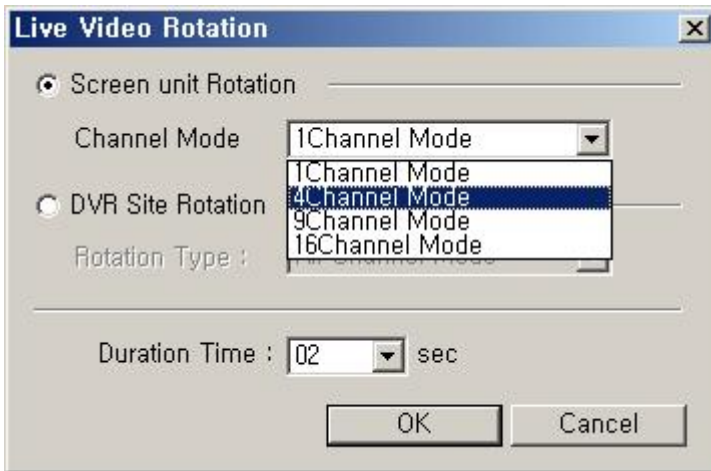
If you want to view one channel view in a divided mode, Double click the channel screen. If you want to view the previous divided mode, double click the screen. Time/ date/ channel information do not appear form 36 channel mode.

3) Reremote control real time monitoring rotation function

(1) Screen unit rotation

	There are screen unit and DVR unit in the rotation function. The Screen unit is to rotate the picture you watch at the moment; the DVR unit is to rotate all the real time pictures connected currently.
--	---

① If you choose the rotation R button, there appears a setting window as below, choose the above rotation R button and set a channel mode and rotation time you want.

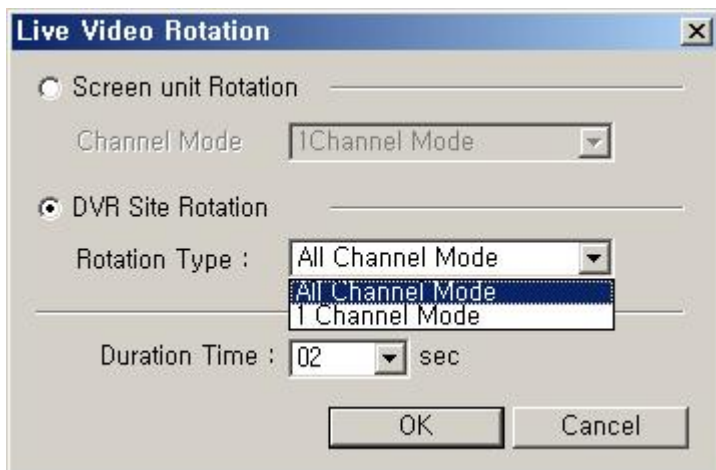


② The screen will rotate according to the chosen channel mode and time. If you want to stop the rotation, click the rotation R button.



(2) DVR unit rotation

① Choose the rotation R button; a setting window will appear as below. Choose the rotation R button and set a channel mode and rotation time as you want.



② When a rotation starts, the chosen DVR cameras will rotate while changing their channel modes. If there are 4 cameras in a DVR, it will rotate in 4 channel modes. If you want to stop the rotation, choose the rotation R button again.



3) Screen magnification / Contraction function

(1) Screen magnification / contraction function

- ① In 1 channel mode, click the right button of the mouse. A pop-up menu will appear. Magnification and contraction range from 100 % - 1600 %. (100, 150, 200, 300, 500, 700, 1000, 1600 %)



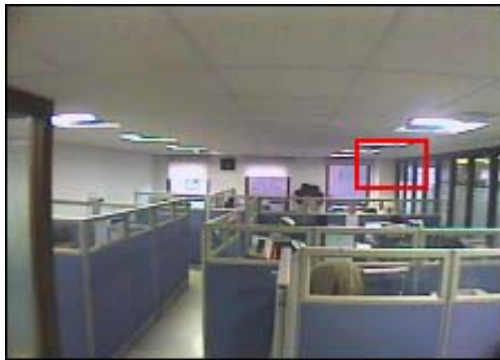
- ② When you choose a magnification rate on the pop-up menu, there appears a PIP screen on the right bottom of the screen. On the screen, there will be a picture screen and the magnified picture appears in the red box.



- ③ To move the magnified picture, move the red box in the PIP screen to a place you want to magnify.



- ④ You can magnify or contract the screen without going to the popup menu by using a mouse wheel and Ctrl key. In PIP mode, press the Ctrl key and move the mouse wheel upward for zoom in and downward for zoom out.



Zoom In



Zoom Out

4) Controlling the PTZ

(1) Selecting the channel connected to a PTZ camera

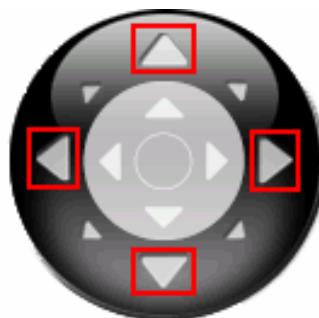
① Select the PTZ camera displayed on the screen as shown in the figure below



(2) Adjusting the Pan / Tilt

Selecting the channel connected to a PTZ camera

① Select the channel where the PTZ is connected and use the arrow buttons to adjust the Pan/Tilt



(3) Adjusting Zoom in/ Zoom out

- ① After selecting the channel where a PTZ camera is connected, adjust by clicking the Wide/Tele button controlling Zoom in the PTZ control group.



Zoom Out



Zoom In



(4) Adjusting the Focus

- ① After selecting the channel where a PTZ camera is connected, adjust by clicking the Near/Far controlling the Focus in the PTZ control group.



Focus In



Focus Out



(5) Controlling the Preset

- ① 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.



Preset [1]

Select a PTZ Preset No.

Move

Move the screen position to the selected preset number position

Set

Save the current position in the selected preset number.

(6) Adjusting the Speed

- ① 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.



100

Adjust the speed of movement between 0 ~ Maximum Value



(7) Controlling the Tour

- ① After selecting the channel where a PTZ camera is connected, Select Tour 1 or Tour 2 to run PTZ.



Tour 1

Run PTZ Tour1

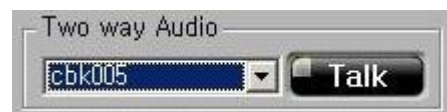
Tour 2

Run PTZ Tour2

5) Controlling the Two way Audio

The Two-way Audio function will play the voice data that was input using a microphone or an audio input device by the user in POLYVISION-CMS and sent to the DVR, in the DVR system

- (1) Selecting a DVR in the connected DVR list



(2) Pressing the Talk button and inputting speech



(3) Pressing the Talk button again disabling the feature

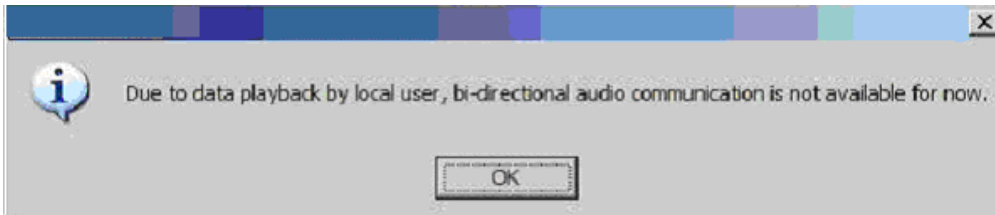


(4) After 2 minutes, the Two-way Audio function will be stopped automatically.

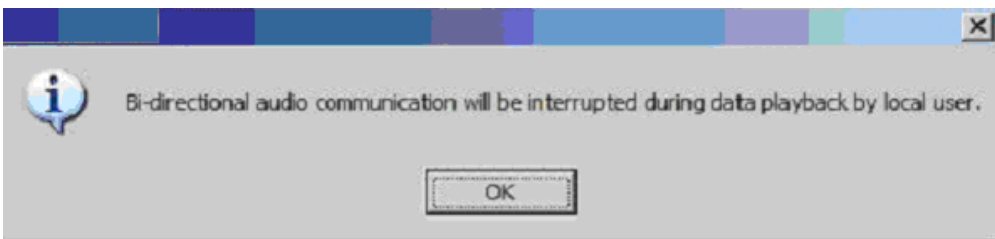
(5) If another user uses the Two-way Audio function first, the following message will be displayed. This function can be used when that user is done.



- (6) If the Playback mode is being used in the DVR system, the following message will be displayed. The DVR may be used when the Playback mode has ended.



- (7) While the Two-way Audio function is being used, if the Playback mode is used in the DVR system, the following message will be displayed and the Two-way Audio function will be stopped.



6) Controlling the Relay Out

The Relay Out function will turn On/Off the devices connected to Relay Out. The number of Relay Out supported is different for each model. (PVDR-1686/1685/1684/0884/0484L)

- (1) Selecting a DVR from the connected DVR list



(2) Indicating the Relay Out state for the DVR system



(3) Using the Start button to set up On/Off for Relay Out



(4) If another user is already using Relay Out, the following message will be displayed when the Start button is pressed. Relay Out may be used when that player is done



7) Controlling the audio

If the audio record is set, you can listen to the audio set to each channel in real-time as in the following figure.



- (1) Executing live monitoring by selecting the DVR icon or the camera icon causes the channels where audio is connected to display an audio icon on the lower right part. Playback will then be carried out automatically starting with the audio connected to channels with lower playback order number.
- (2) To change the audio channel, click the channel displaying the  icon. The icon will then change to , and the audio for the corresponding channel will be played.
- (3) Drag the  button to control the audio volume.
- (4) Selecting the  button activates the noise cancellation. To terminate the noise cancellation, select the button again or move the volume adjustment bar.

1-5. User & user group administrator



It is to set the authority for information such as user name, access code, etc.

1) User Group Administrator

(1) Adding the user information

- ① Select Add button to add User group.



② Setting user group name, explanation and authority.

Add User Group [X]

Group Name :

Description :

Permissions

- ☐ Remote Live Monitoring
- ☐ Remote File Search
- ☐ Remote File Playback
- ☐ Remote File Download
- ☐ File Playback
- ☐ Remote DVR Setup
- ☐ PTZ Camera Control
- ☐ Two way Audio Control
- ☐ Relay Control
- ☐ DVR Product Information
- ☐ Remote Live Picture Setting
- ☐ Network User Account
- ☐ Log file Viewer
- ☐ Application Setting
- ☐ DVR Address Book
- ☐ Picture Snapshot
- ☐ Picture Print
- ☐ User & User Group Manager

OK Cancel

(2) User Group Editing

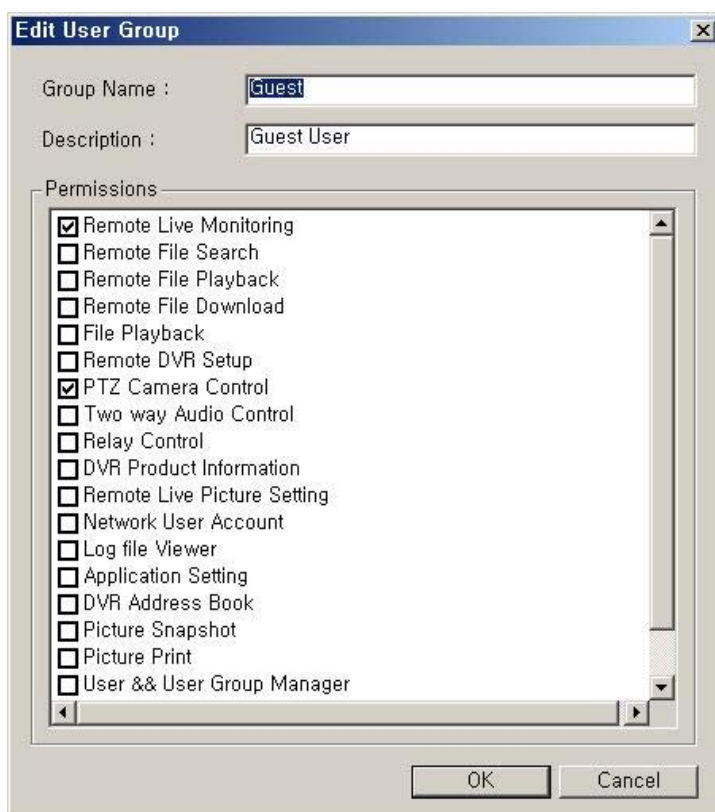
① Click [Edit] button to edit User & User Group Manager as shown in the figure below.

The screenshot shows the "User & User Group Manager" window. It has two tabs: "User" and "User Group". The "User Group" tab is selected. Below the tabs is a table with two columns: "User Group Name" and "Description". There are two rows in the table:

User Group Name	Description
Administrator User Group	Administrator
Guest User Group	Guest User

Below the table are four buttons: "Add", "Edit", "Remove", and "Properties". At the bottom right of the window is a "Close" button.

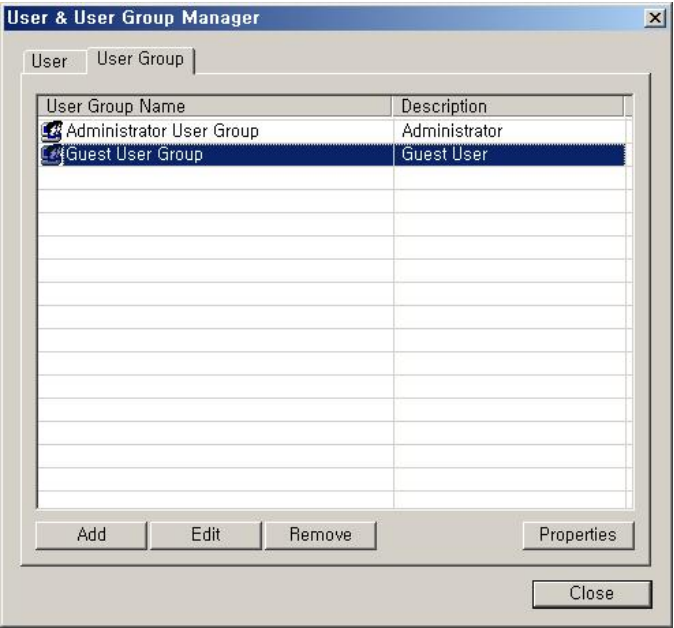
② Edit Group Name, Description and Permissions



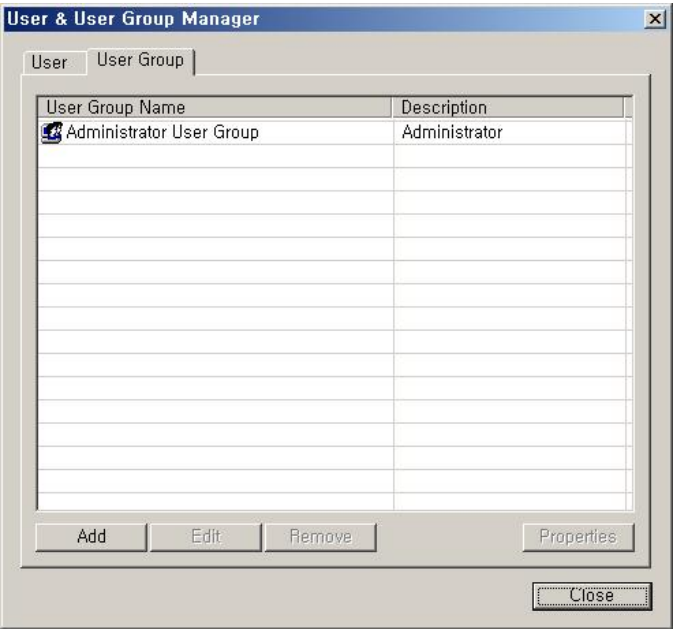
 Administrator User Group can not be edited and deleted. It has all authority.

(3) User Group Delete

① Click [Remove] button to delete User Group as shown in the figure below.

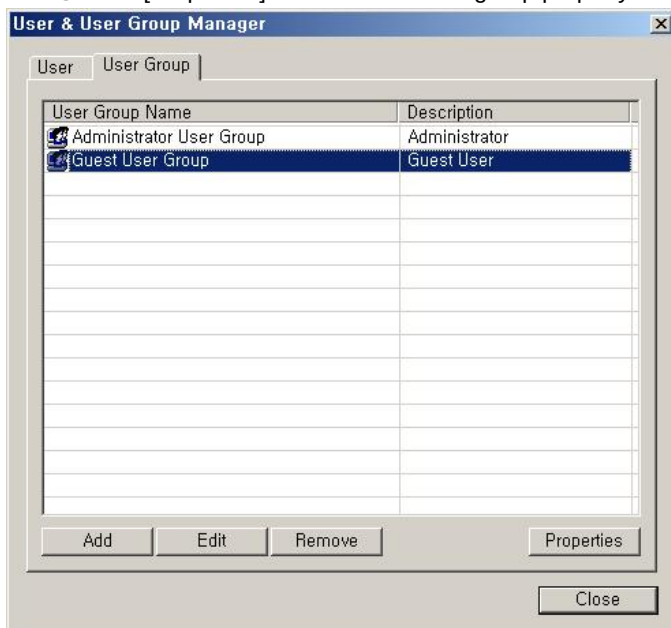


② User Group is deleted

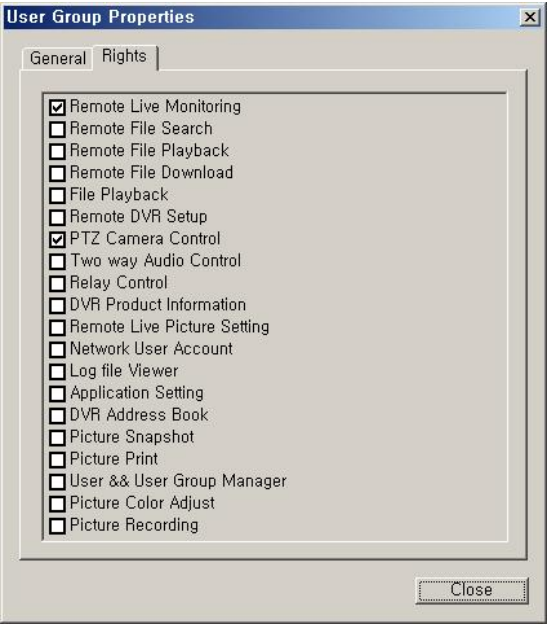


(4) User Group Property

- ① Click [Properties] button for the user group property.



② The User Group Properties appears



2) User Administrator

(1) Add User

- ① Click [Add] button for the add User



- ② Enter the User Name, Password, Full name, Description, E-Mail.

User Information

User Name :

Password :

Confirm Password :

Full Name :

Description :

User Group : Administrator User Group

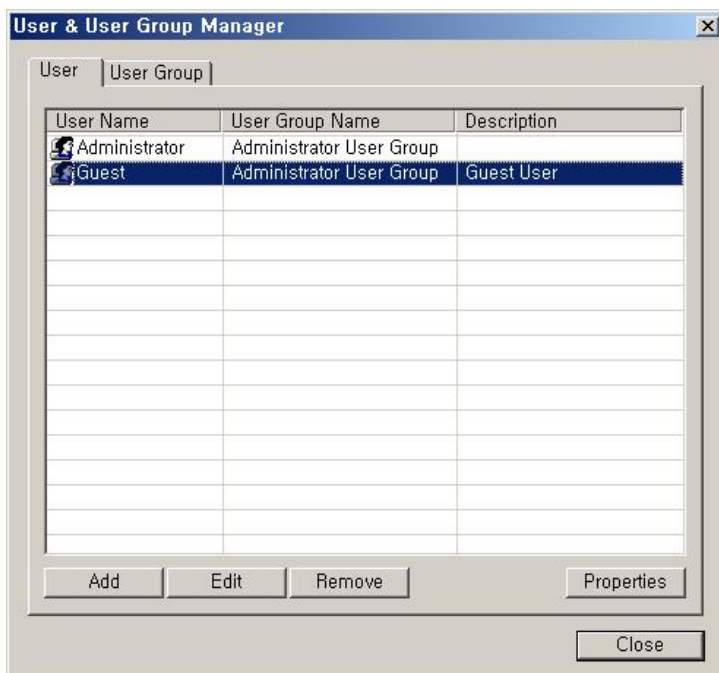
E-Mail :

OK Cancel

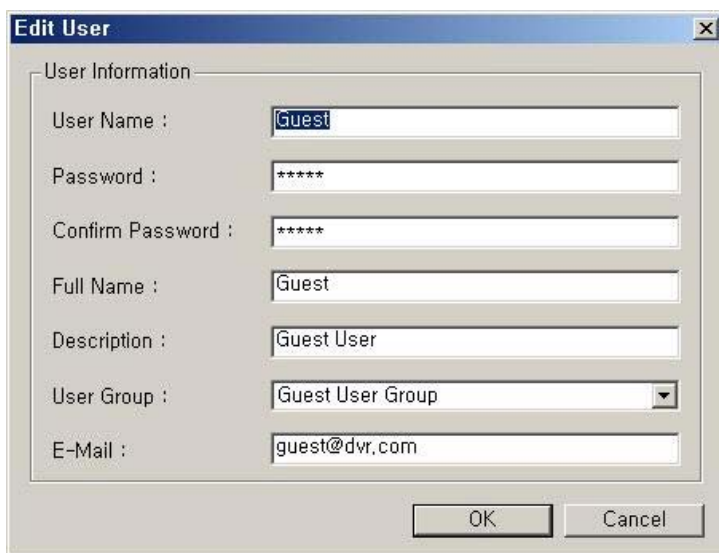
At the first installation, the initial access code of the Administrator is "1111111."

(2) The User Group Edit

① Click [Edit] button to edit User Group as shown in the figure below.



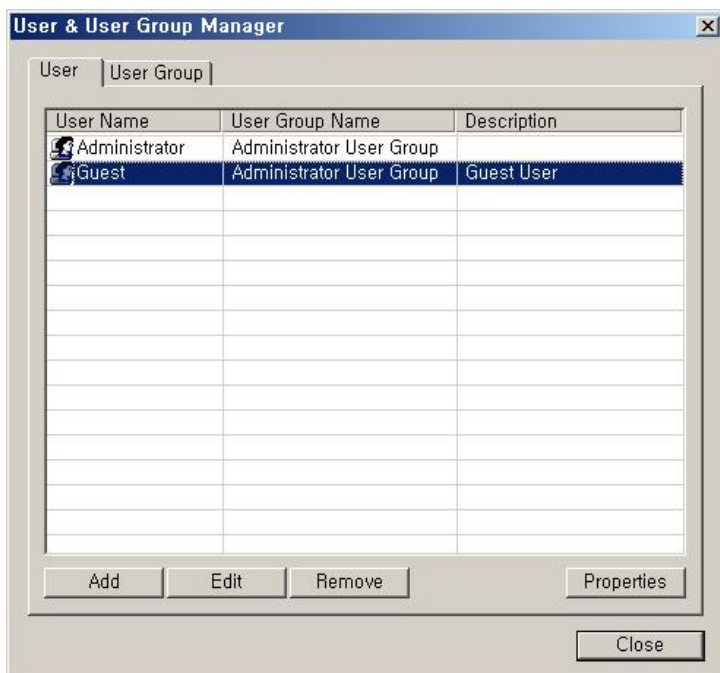
② Edit User Name, Description and User Group as shown in the figure below.



 At the first installation, the guest's access code is "12345."

(3) User Group Delete

- ① Click [Remove] button to delete User Group as shown in the figure below.



- ② User Group is deleted



① Click [Properties] button for the user group property.

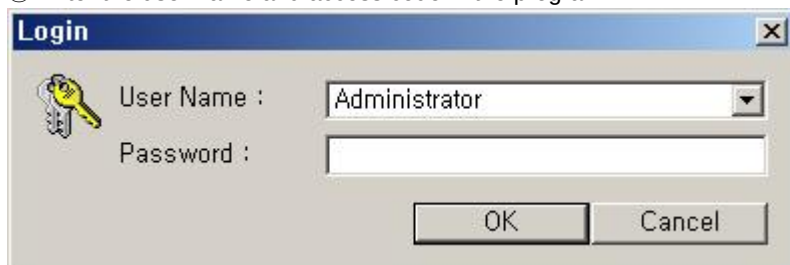


 The Administrator item can not be deleted. It is the administrator user ID.

4) User Log-in

1) Program Log-in

① Enter the user name and access code in the program

A screenshot of a 'Login' dialog box. The dialog has a title bar with the word 'Login' and a close button. Inside, there is a yellow key icon to the left of the 'User Name' label. The 'User Name' field is a dropdown menu currently showing 'Administrator'. Below it is the 'Password' label followed by an empty text field. At the bottom right are 'OK' and 'Cancel' buttons.

Login

User Name : Administrator

Password :

OK Cancel

② When the login is successful, an automatic connection function is operated.

1-6. Automatic connection and address book administration

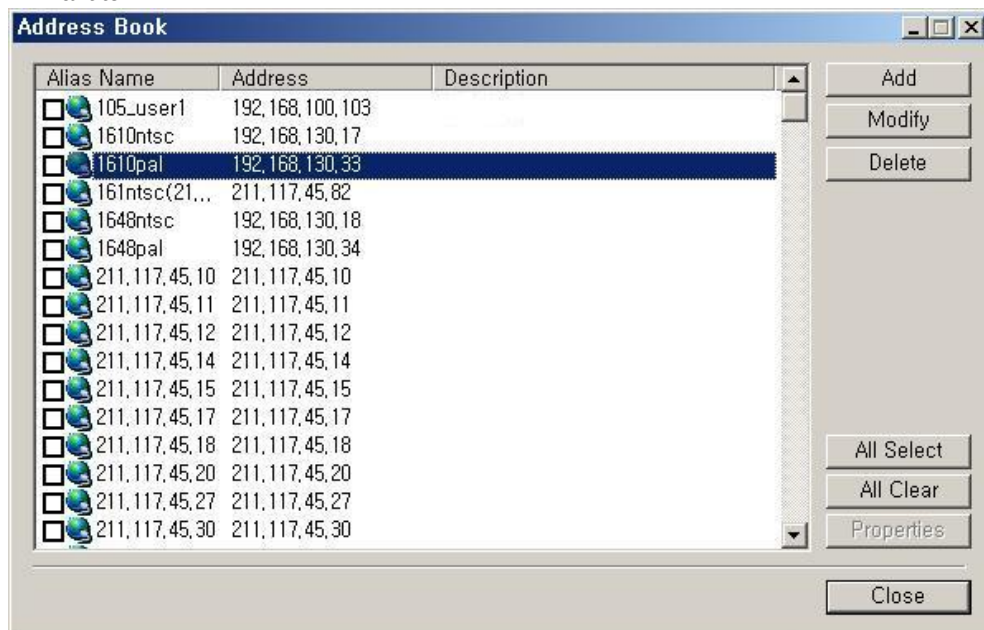


It adds, edits, and deletes the DVR system connection address. It also manages the DVR system lists to connect.

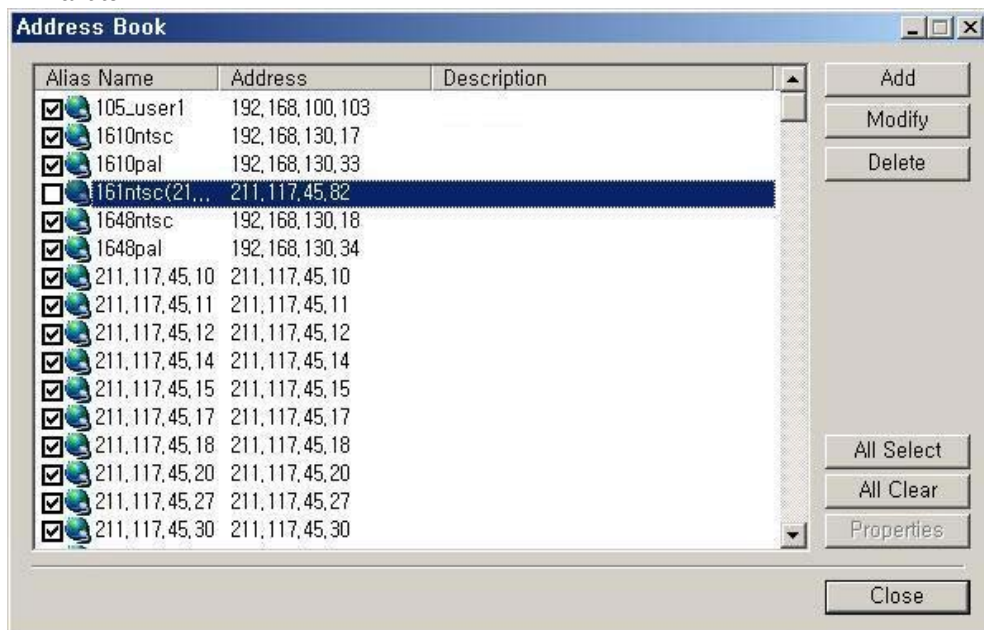
1) Automatic connection function

(1) Automatic connection registration

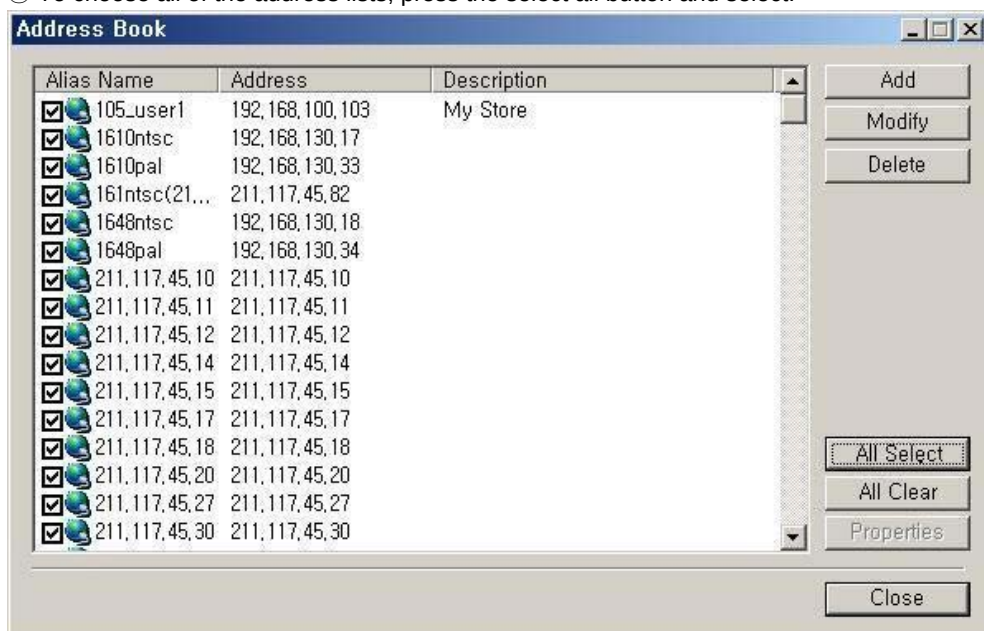
- ① For automatic connection registration, operate the address book and check the item you want to



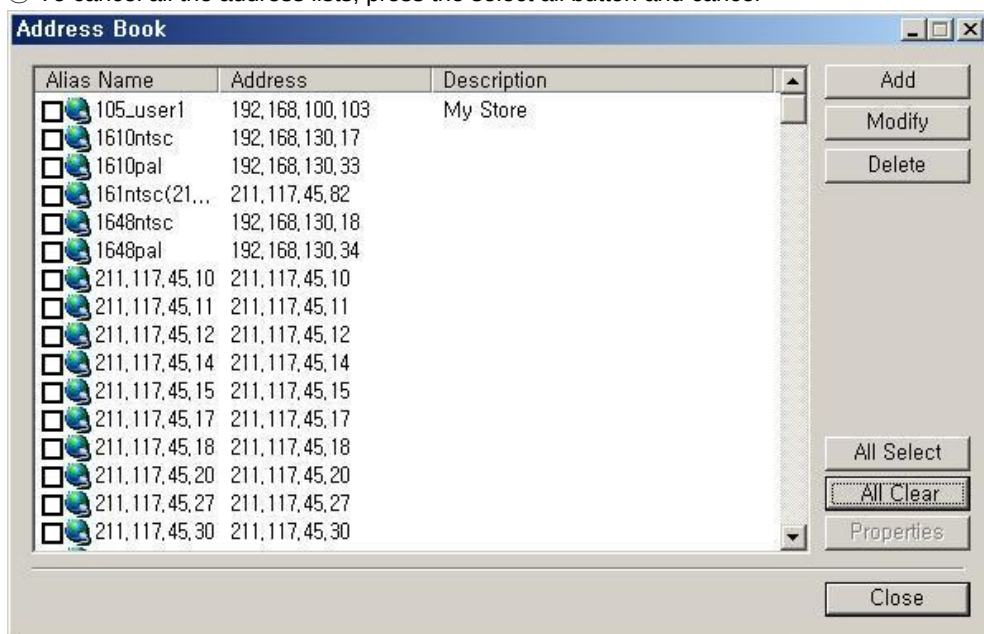
- ② To cancel the automatic connection, operate the address book and cancel the item you want to



- ③ To choose all of the address lists, press the select all button and select.



- ④ To cancel all the address lists, press the select all button and cancel

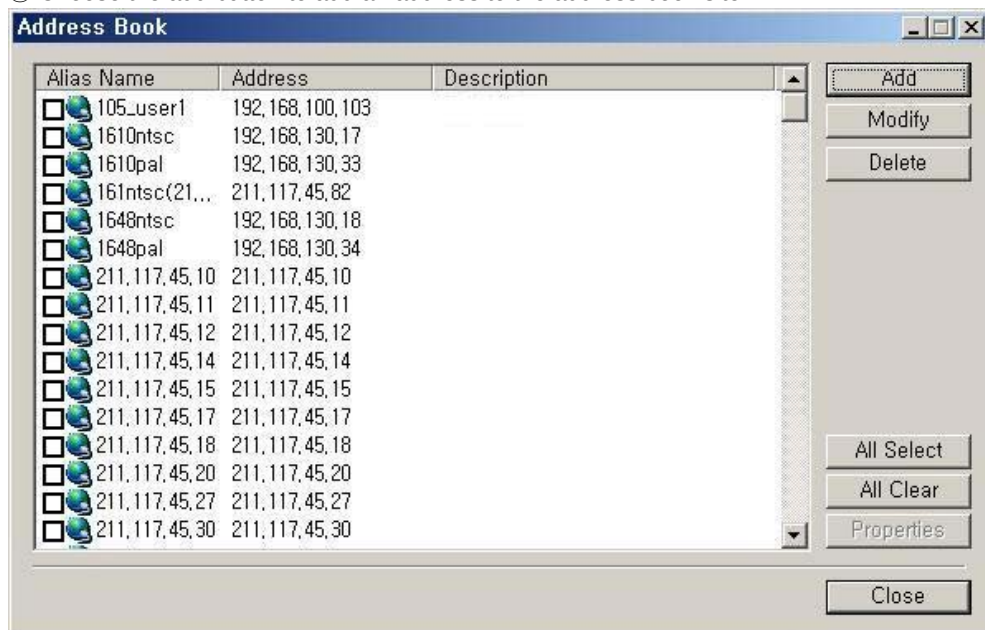


- When the checked connection item is disconnected, the connected item does not disappear from the automatic disconnection list even if you cancel the item check from the address book. It does not appear if you reset the program.

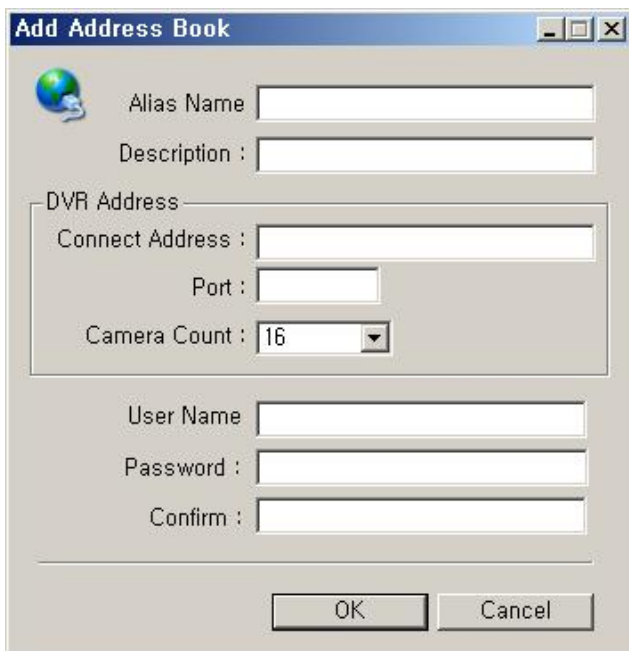
1-7. Real-time monitoring the address book site administration

1) Add an address

① Choose the add button to add an address to the address book site.



- ② Enter the user name, explanation, DVR information in the add window and press the confirm button.



Add Address Book

 Alias Name

Description :

DVR Address

Connect Address :

Port :

Camera Count : 16

User Name

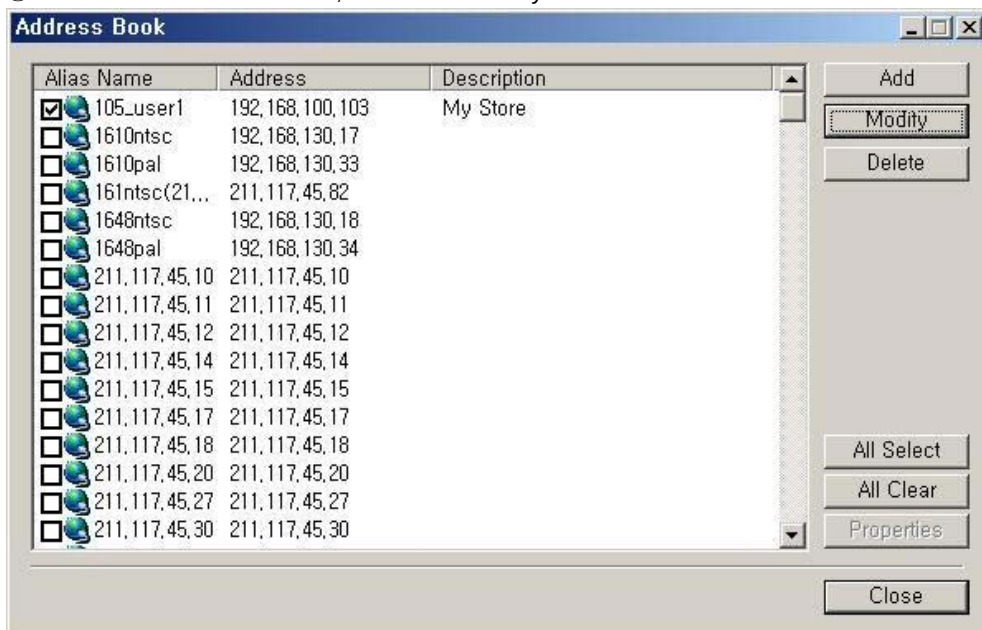
Password :

Confirm :

-  The added address is automatically chosen and connected when you close the address book

2) Modify the address book

① To amend the address book, choose the Modify button.



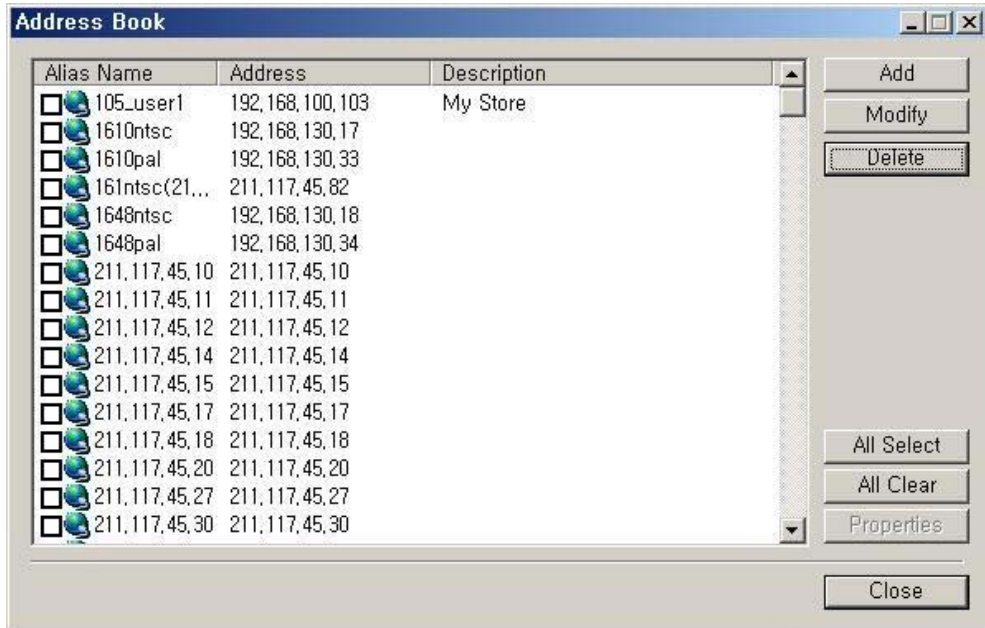
② Enter the user name, explanation, and DVR information to the added window, and choose the confirm button. Then a new address is added



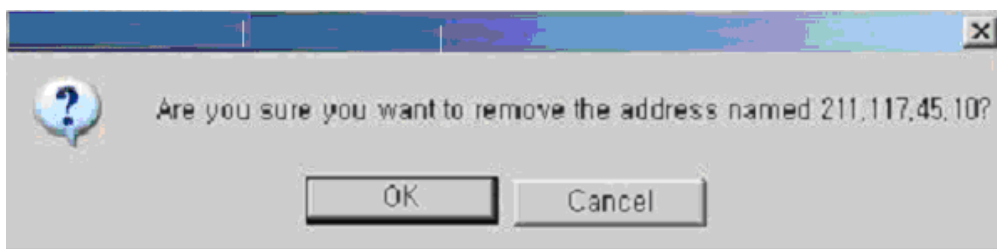
- ① When you want to change Information except the user name, press the confirm button, then they can be revised. When you change the user name, press the confirm button, then the address will be added.

(2) Delete the address site

- ① To delete the address site, choose the delete button.



- ② When you choose the delete button, there appears a message box to confirm



- ② There appears a screen layout window. You can choose a name, an description and a channel mode you want.

Screen Layout Setting

Screen Layout Info :

Screen Layout Name :

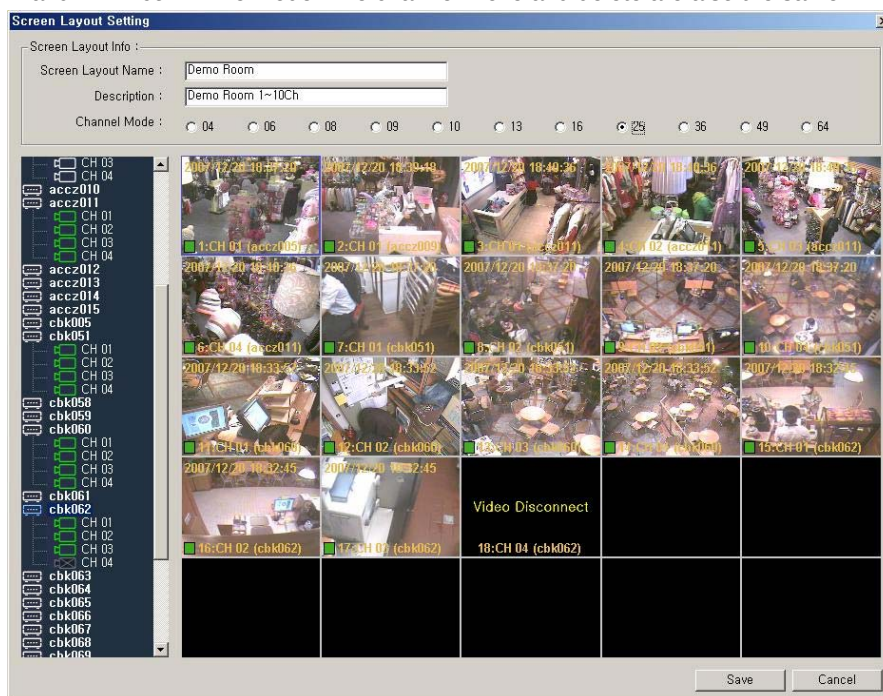
Description :

Channel Mode : ☐ 04 ☐ 06 ☐ 08 ☐ 09 ☐ 10 ☐ 13 ☒ 16 ☐ 25 ☐ 36 ☐ 49 ☐ 64

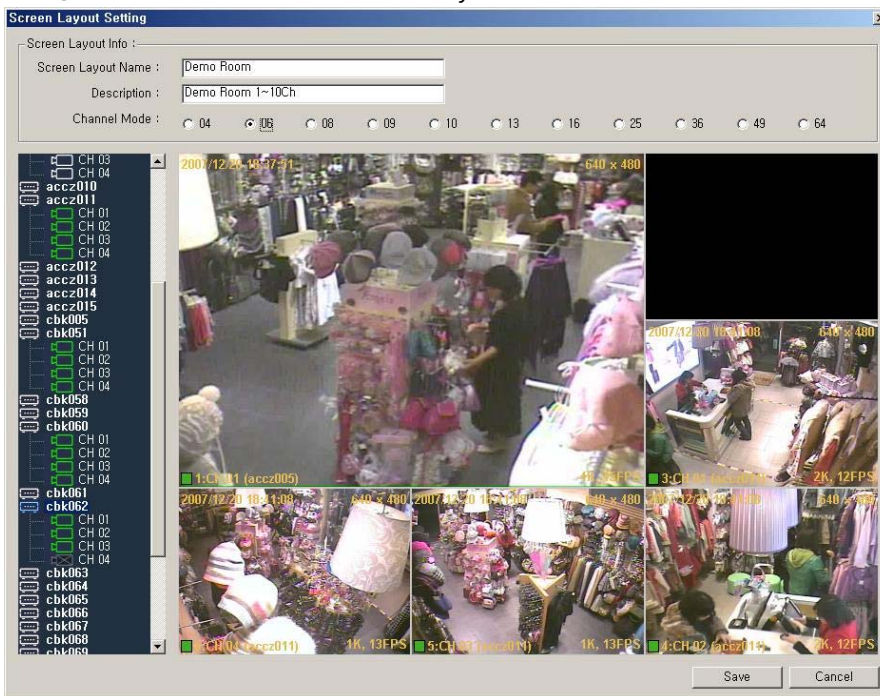
accz005				
accz006				
accz007				
accz008				
accz009				
accz010				
accz011				
accz012				
accz013				
accz014				
accz015				
cbk005				
cbk051				
cbk058				
cbk059				
cbk060				
cbk061				
cbk062				
cbk063				
cbk064				
cbk065				
cbk066				
cbk067				
cbk068				
cbk069				
cbk070				
cbk071				
cbk072				
cbk073				
cbk074				
cbk075				
cbk076				
cbk077				
cbk078				
cbk079				
Test_DVR(1610)				
Test_DVR(1624)				

Save Cancel

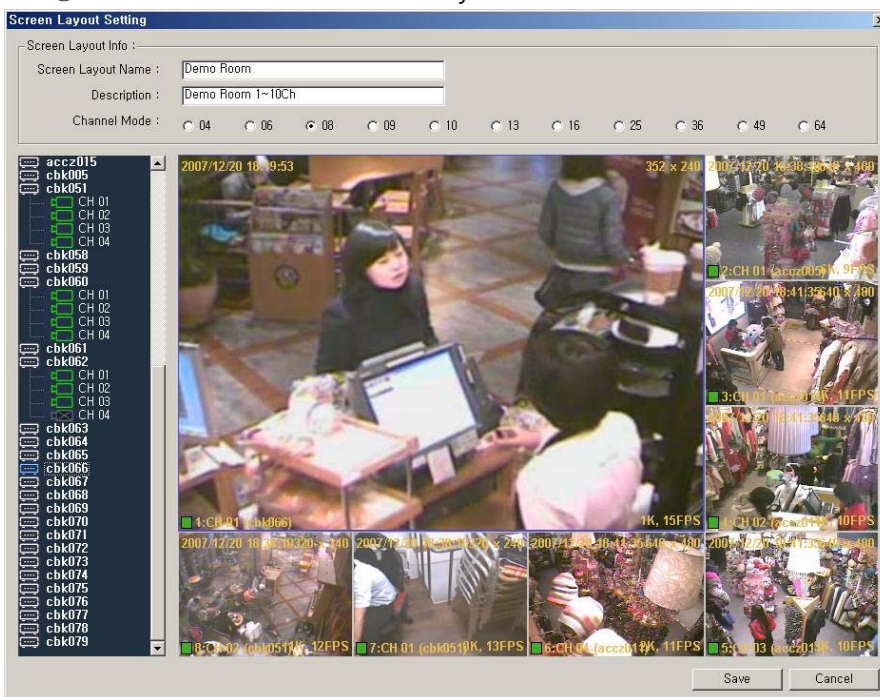
- ③ Choose a channel mode in the screen layout, and display channels the user wants. The way to display is the same as the drag and drop function of the camera and DVR icon in live mode. The channel move and delete are also the same.



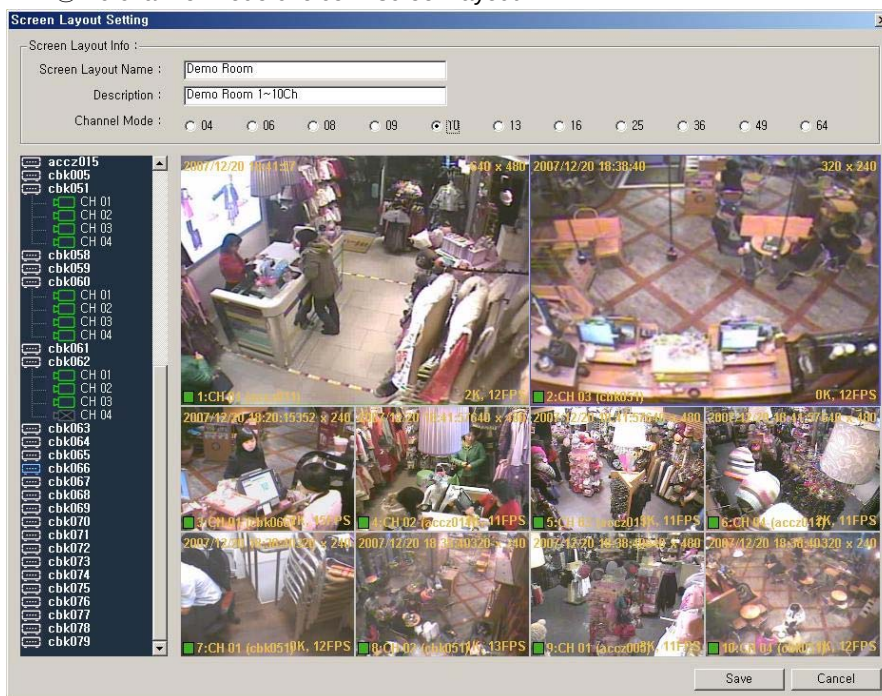
④ 6 channel mode choice in screen layout



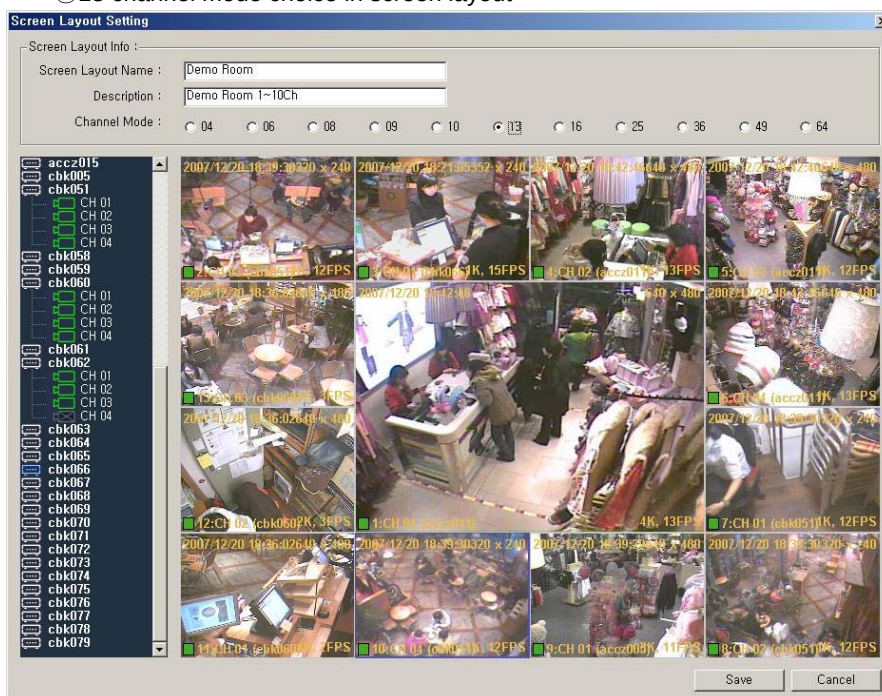
⑤ 8 channel mode choice in screen layout



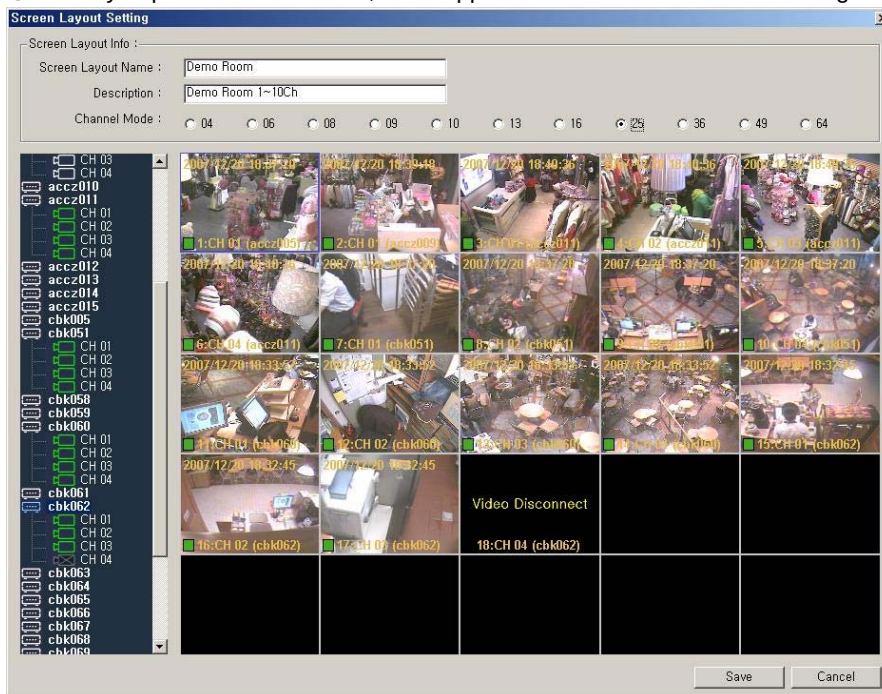
⑥ 10 channel mode choice in screen layout



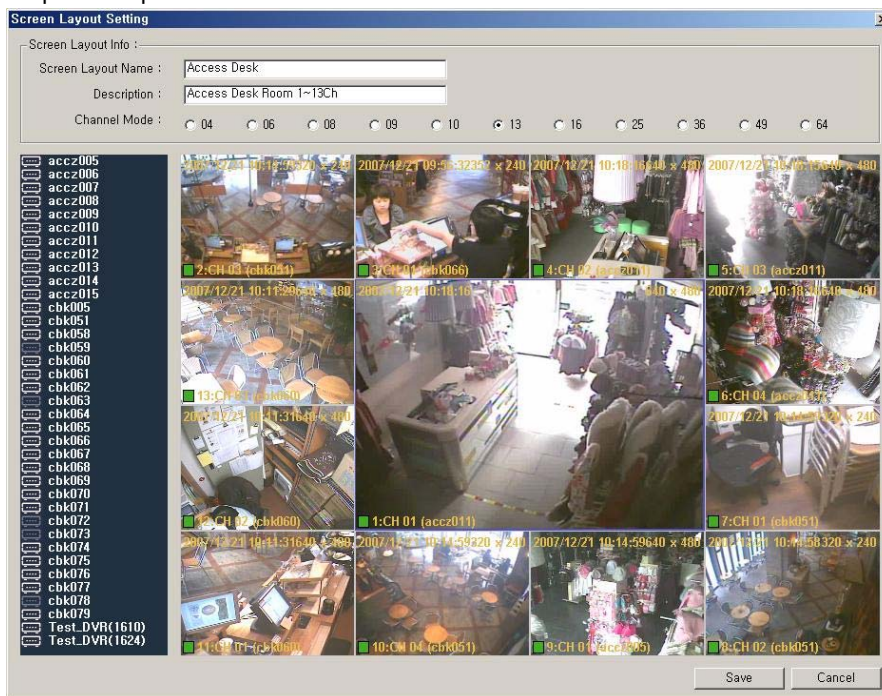
⑦ 13 channel mode choice in screen layout



② When you press the edit button, there appears the channel mode and arrangement plan previously set.

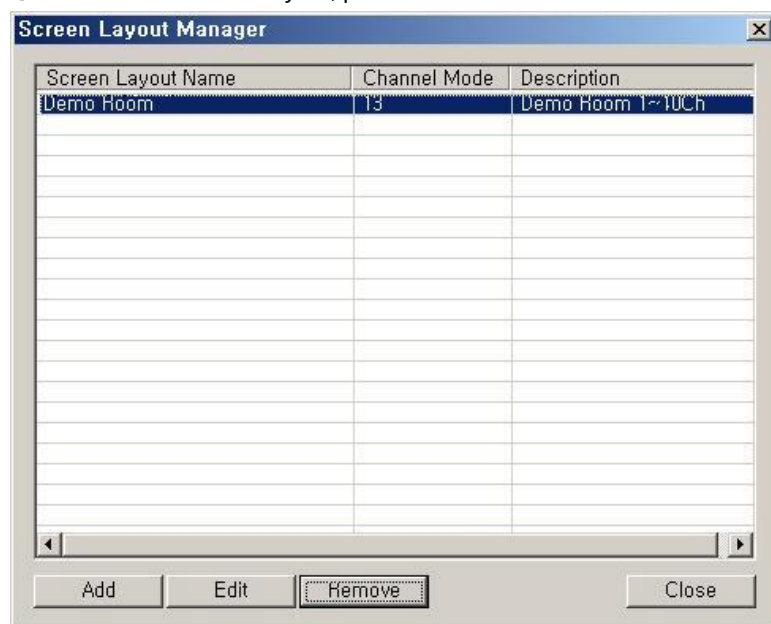


③ Edit the screen layout name, explanation, channel mode and arrangement plan and press the save button.

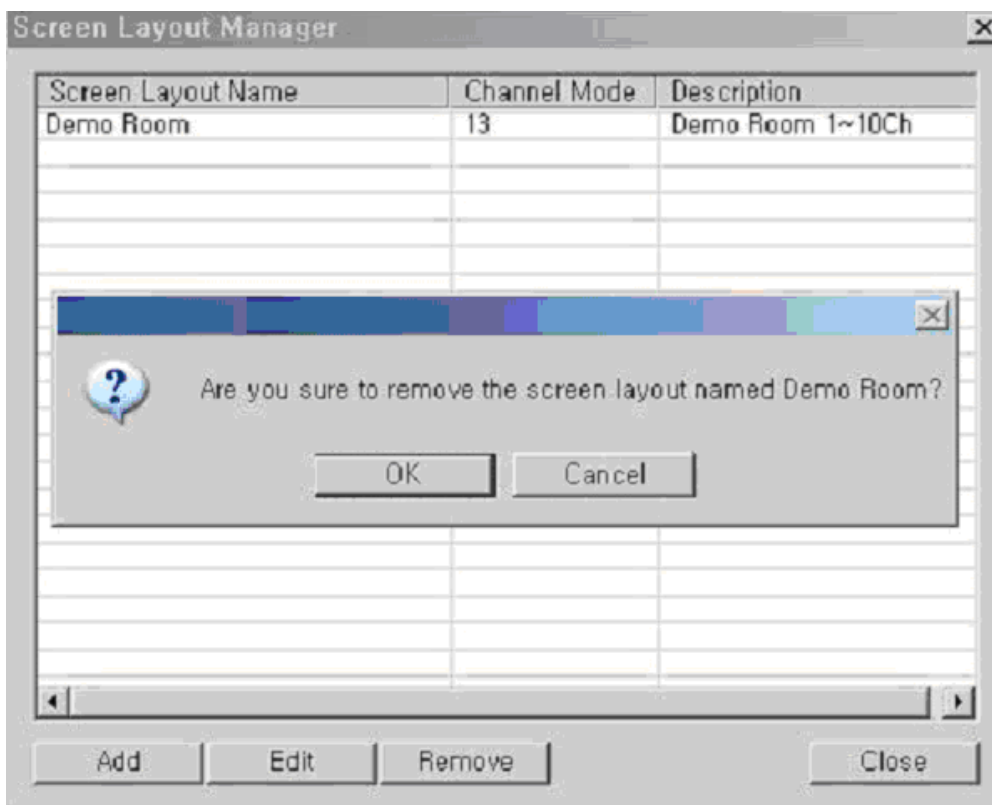


(3) To delete the Screen Layout

① To delete the screen layout, press the delete button



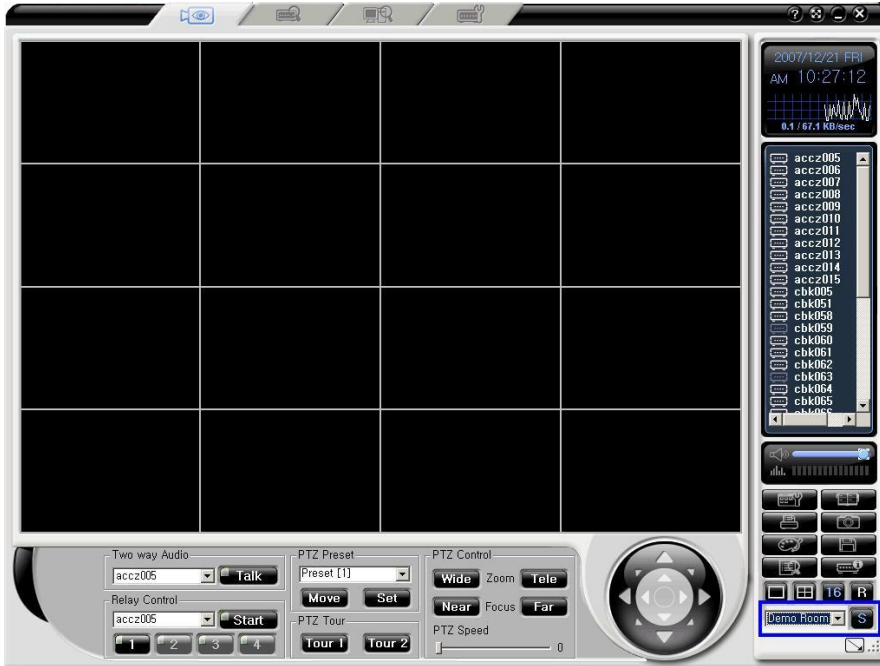
- ② When you press the delete button, there appears a dialogue box asking you to confirm the deletion. Choose yes or no.



2) To use the screen layout

(1) To use the screen layout in live mode

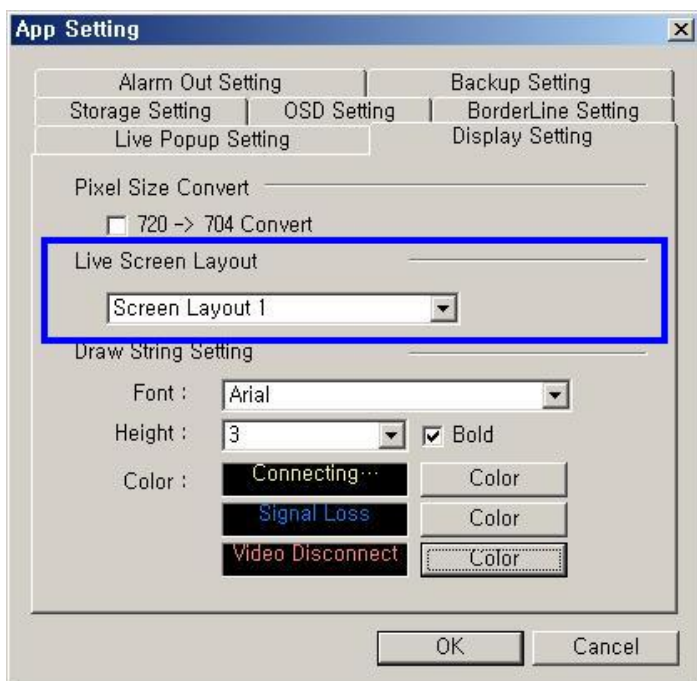
- ① Choose the screen layout from the right bottom screen layout list in the live mode, and then click the s button.



② When you choose a screen layout from the screen layout list, there appears a customized live screen as below.

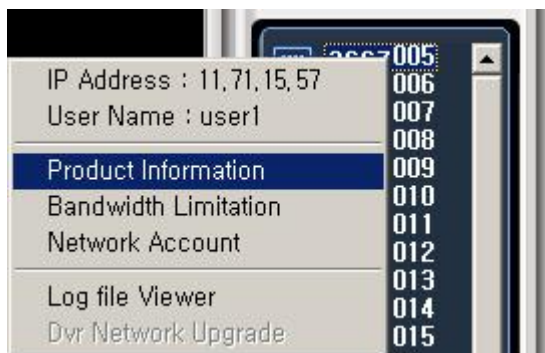


③ When you start a program, you can set the customized screen layout to be operated automatically. If the user chooses the screen layout he wants from the live screen layout as below, the program starts with the chosen screen layout.

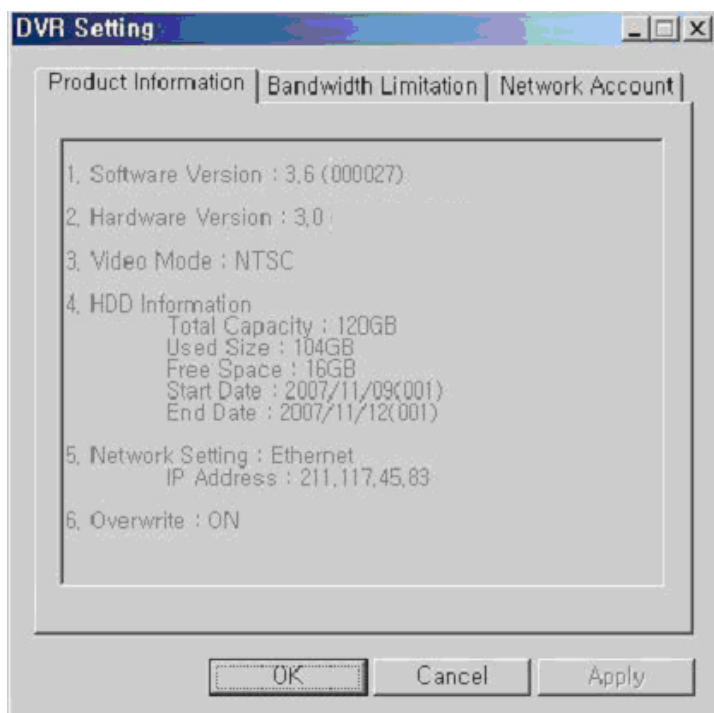


1-9. DVR information setting

① In order to use the product information view, select the DVR site name on right of the program screen and click the right of the mouse button. Select the product information on the popup menu.



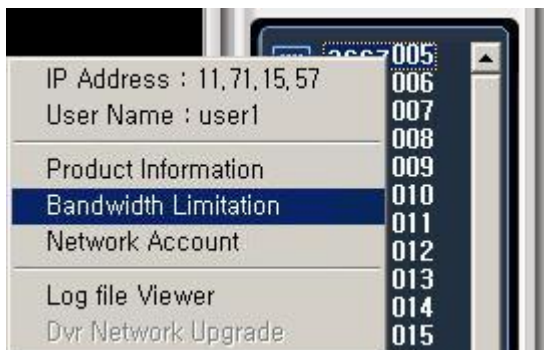
② When you select the product information tab in the popup window, there appears the product information as below.



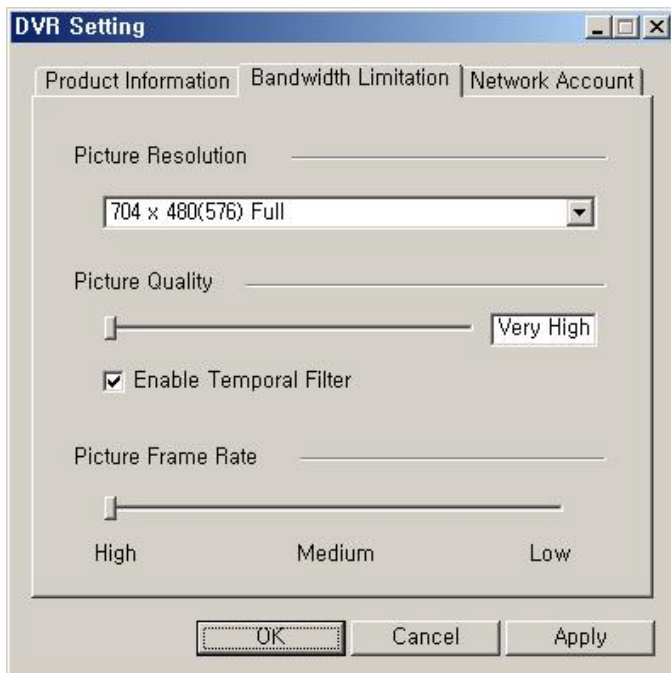
1. S/W version
(Build Number)
2. H/W version
(Model Name)
3. Video Mode
4. HDD Information
 - Total Capacity
 - Used Size
 - Free Space
 - Start Date
 - End Date
5. Network Setting
6. Overwrite On/Off

1) Bandwidth Limitation Function

① To use the support for throttling function, choose the DVR site name on the right of the program screen and click the right of the mouse button. Select the support for throttling function on the popup menu.



- ③ When you select the support for throttling tab in the popup window, there appears the support for throttling as you see in the picture below.



* Image resolution

It regulates the screen resolution. The lower the resolution, the faster the transmission speed.

(CIF > Field > Full)

* Image quality

It regulates screen quality. High image Quality lowers compressibility and decreases speed. Poor image quality increases compressibility and speed

*Temporal filter application

When there are lots of static in the screen, it removes static, reduces unnecessary pictures, and increases the transmission speed

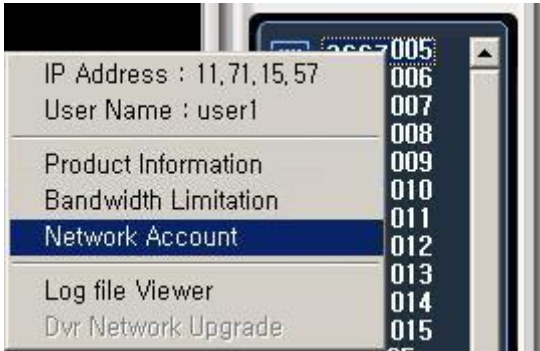
* Image transmission speed

Screen transmission frame numbers are regulated. On the basis of 3 D frame, the following values are approximately set. High: 30, Medium: 15 Low: 7.5

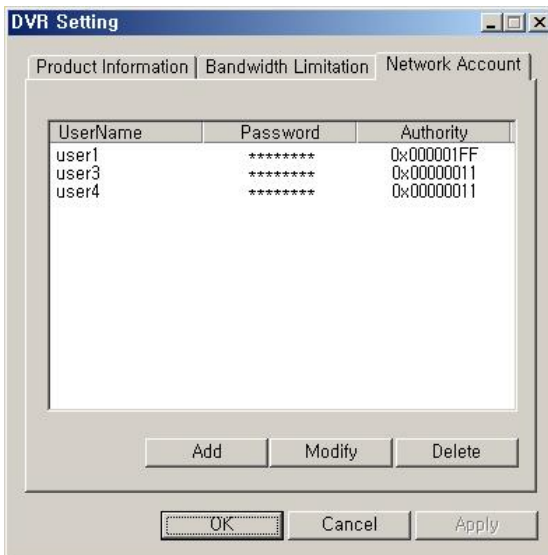
2) Network account management function

(1) Network account

① To use the network account management function, select the DVR site name on the right of the program screen and click the right button of the mouse. Select the network account manager on the popup menu.

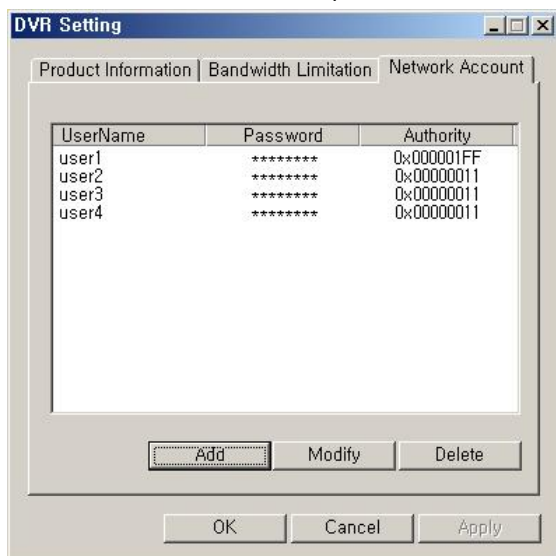


② When you select the network account tab in the popup window, there appears the network account as you see in the picture below



(2) To add a network account

① To add a network account, press the add button



- ② To add a network account, set user name, access code, and user authority and press the confirm button.



The 'Edit Account' dialog box is used to configure a network account. It contains two main sections: 'DVR Account' and 'DVR Authority'. The 'DVR Account' section has three text input fields for 'UserName:', 'Password:', and 'Confirm:'. The 'DVR Authority' section contains a grid of checkboxes for various permissions: Live, Playback, File Download, Remote Upgrade, Covert View, DVR Setup, PTZ Control, Backup, and Power On. At the bottom are 'OK' and 'Cancel' buttons.

DVR Account	
UserName:	
Password:	
Confirm:	

DVR Authority	
☐ Live	☐ DVR Setup
☐ Playback	☐ PTZ Control
☐ File Download	☐ Backup
☐ Remote Upgrade	☐ Power On
☐ Covert View	

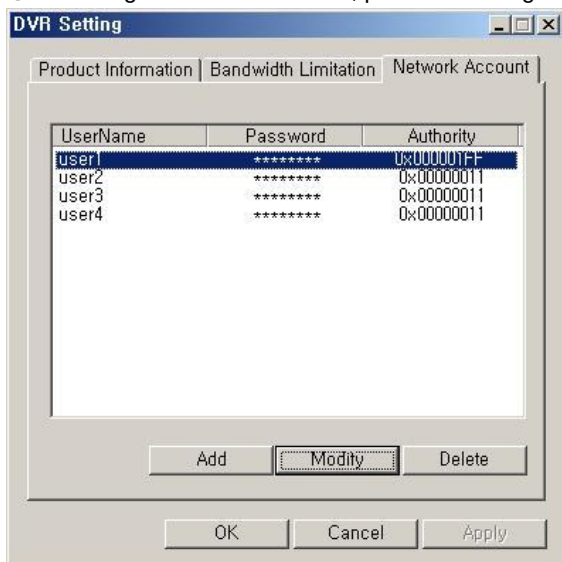
OK Cancel

- ③ When added successfully, there appears a message like below.

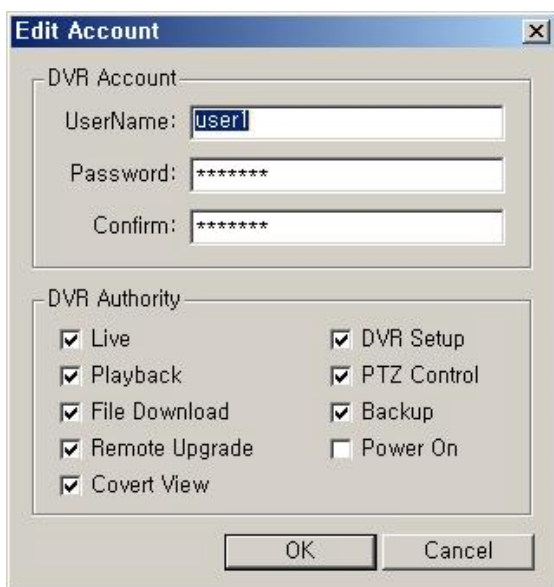


(3) To change Network accounts

- ① To change a network account, press the change button.

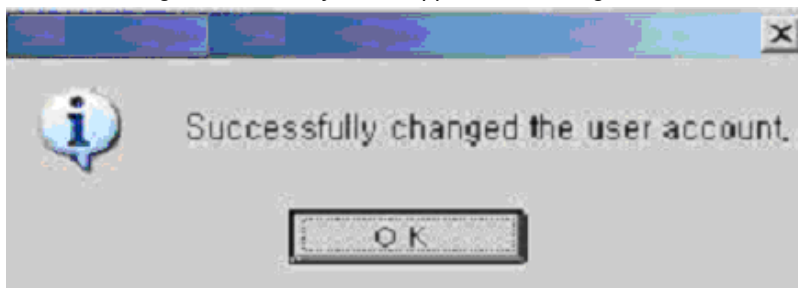


② Change network accounts, such as user name, access code, and user authority and press the confirm button.



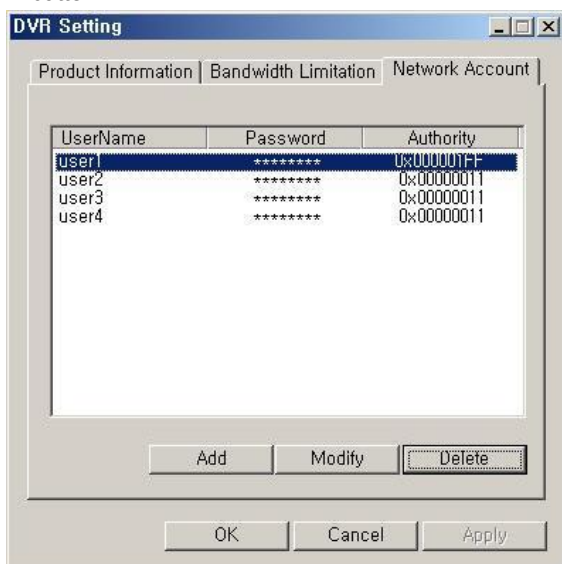
The 'Edit Account' dialog box is shown. It has a title bar with 'Edit Account' and a close button. The dialog is divided into two sections: 'DVR Account' and 'DVR Authority'. In the 'DVR Account' section, there are three text input fields: 'UserName' (containing 'user1'), 'Password' (containing '*****'), and 'Confirm' (containing '*****'). In the 'DVR Authority' section, there are eight checkboxes arranged in two columns. The first column contains 'Live', 'Playback', 'File Download', 'Remote Upgrade', and 'Covert View', all of which are checked. The second column contains 'DVR Setup', 'PTZ Control', 'Backup', and 'Power On'. 'DVR Setup', 'PTZ Control', and 'Backup' are checked, while 'Power On' is unchecked. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

③ When changed successfully, there appears a message like below.

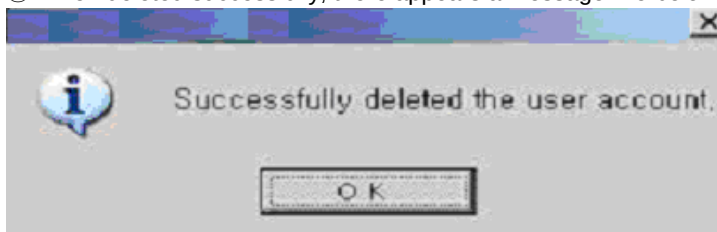


(4) To delete network accounts

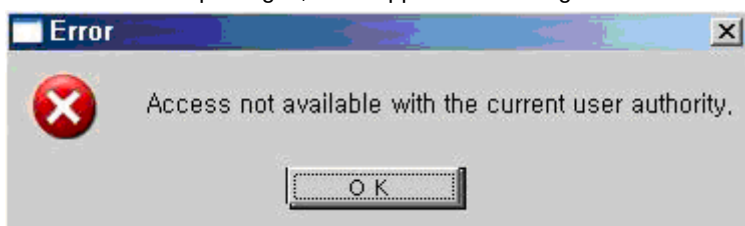
- ① To delete network accounts, select the item you want to delete and press the delete button.



- ② When deleted successfully, there appears a message like below.



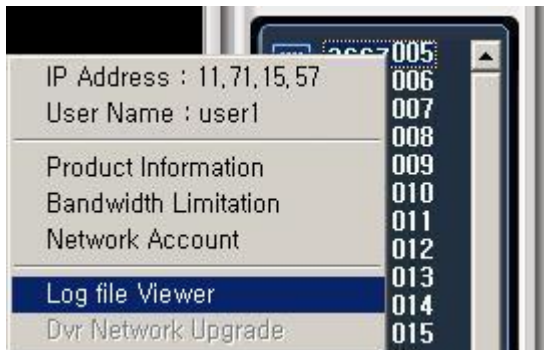
- 📖 You can add / change / delete network accounts only with administrator privileges. With administrator privileges, there appears a message like below.



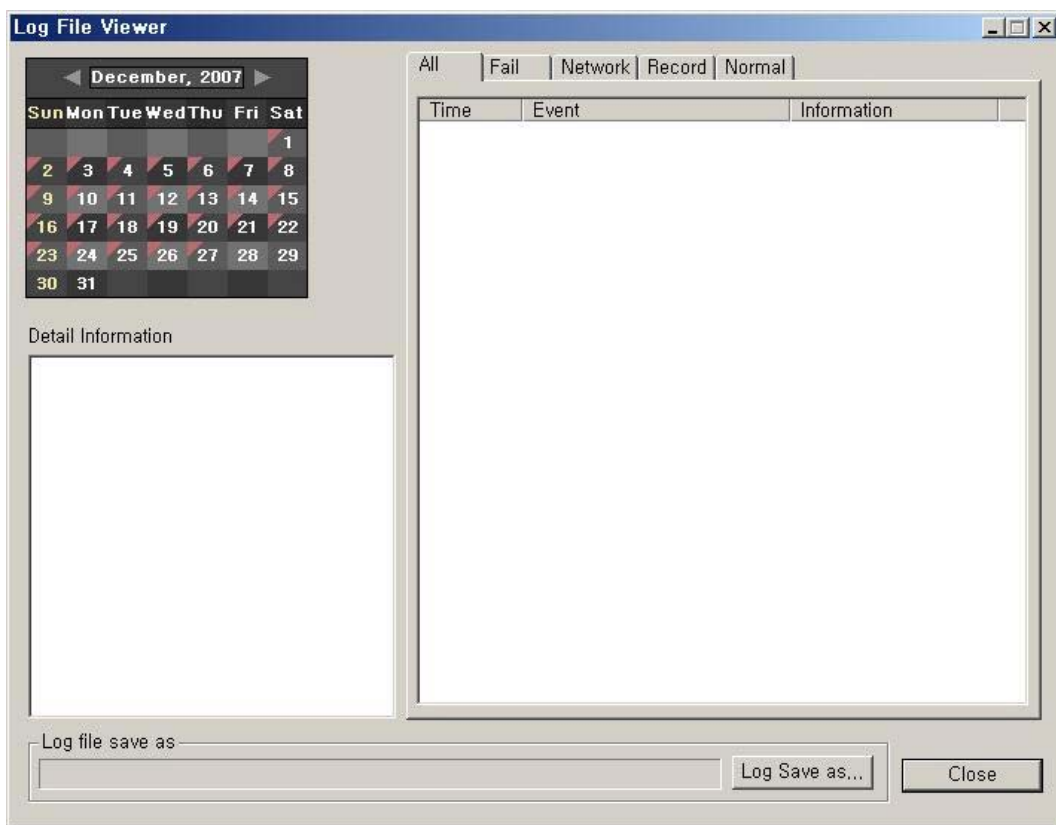
3) DVR Log File Viewer function

(1) To start Log file Viewer

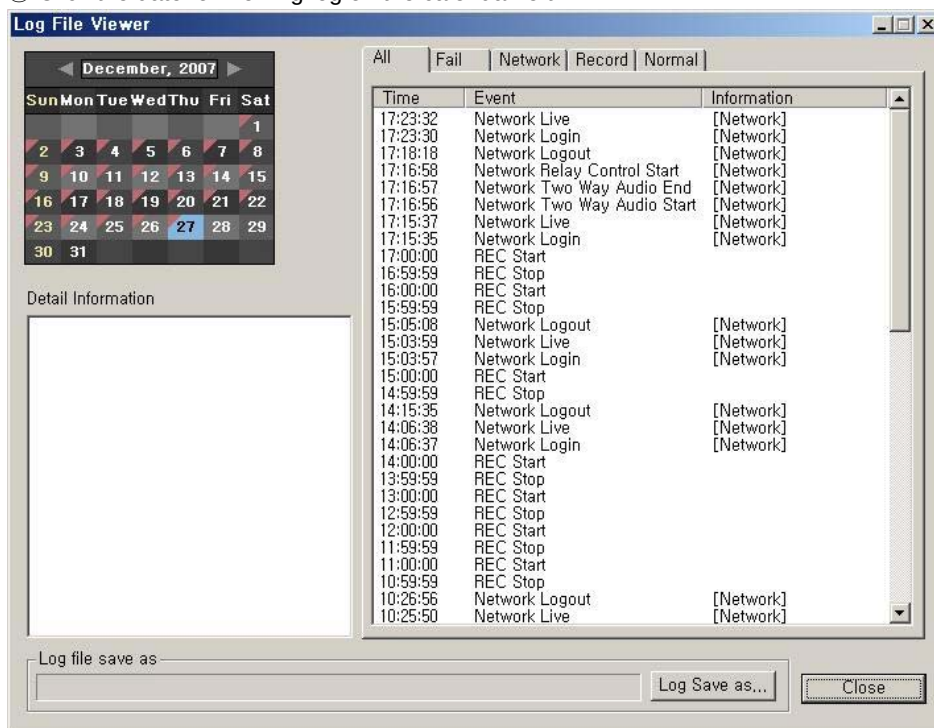
① Move the Cursor to DVR Alias Name or IP connected to the DVR connection tap on the right side of the program screen, and click the left button of the mouse.



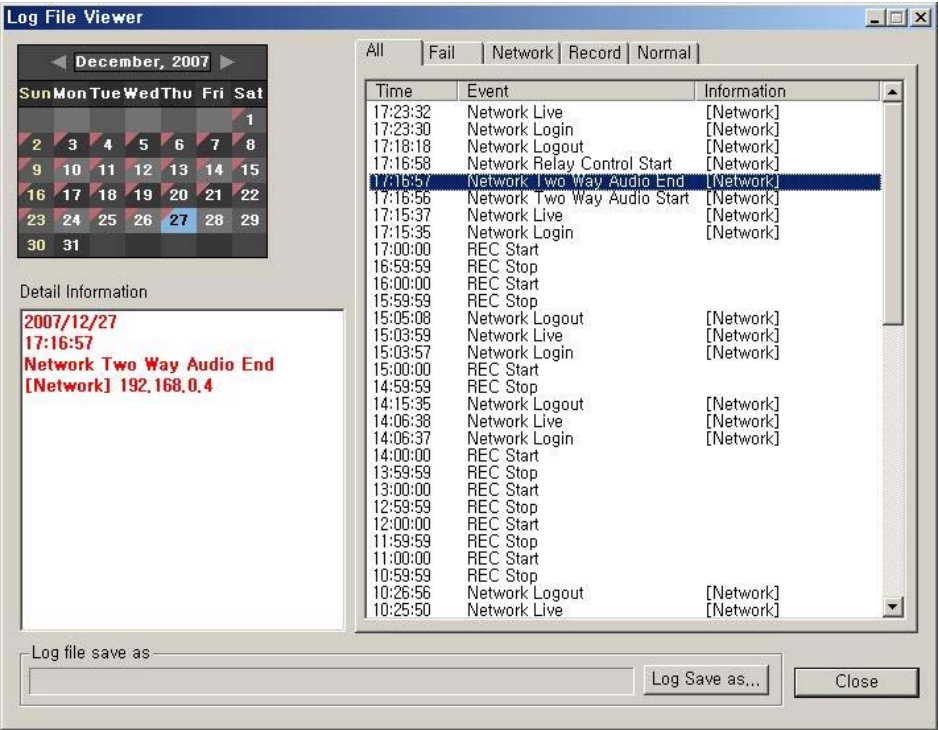
② Click the Log file viewer in the popup window, then there appears the log information window like below.



③ Click the date for viewing log on the calendar left.

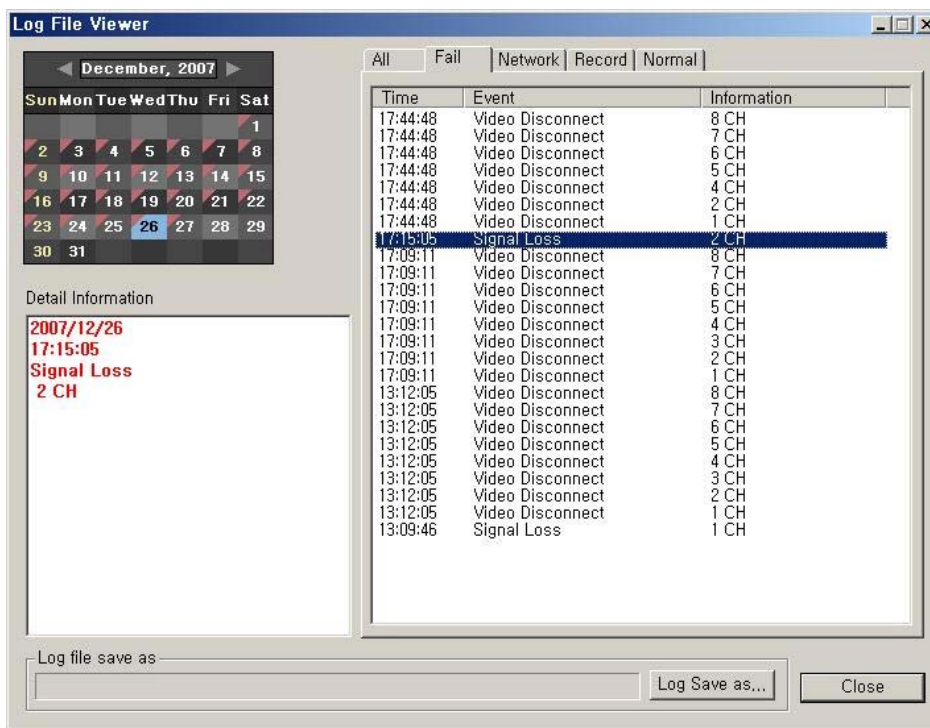


- (2) To view the whole log
- ① Select the [all] tap on the log information window right. There appears all the log information lists.
 - ② Click an event at a specific time, you can view detailed log information on the detailed information window left.



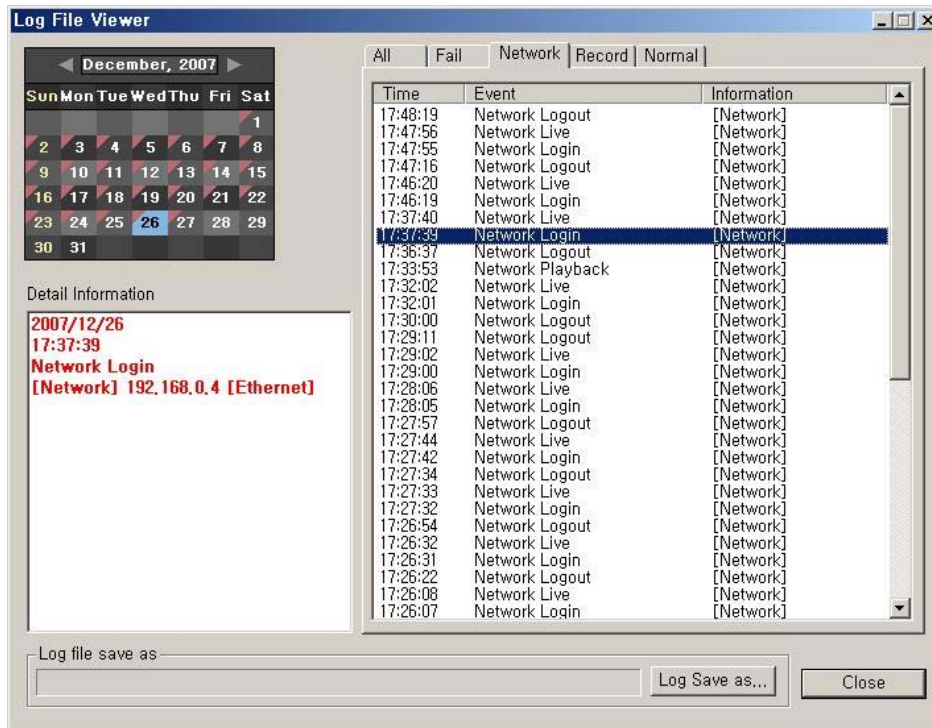
(3) Fail Log view

- ① Select the [Fail] tab on the Log information window right, there appears the log information lists.
- ② Click an event at a specific time, you can view detailed log information on the detailed information window left.



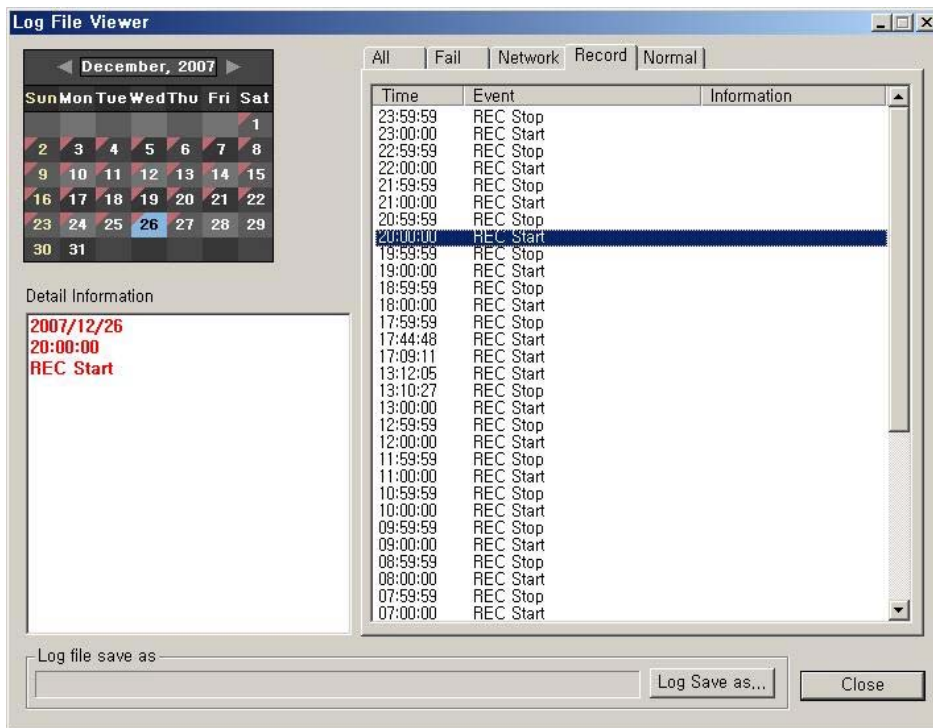
(4) Network log view

- ① Select the [network] tab on the Log information window right, there appears the log information lists. Click an event at a specific time, you can view detailed log information on the detailed information window left.



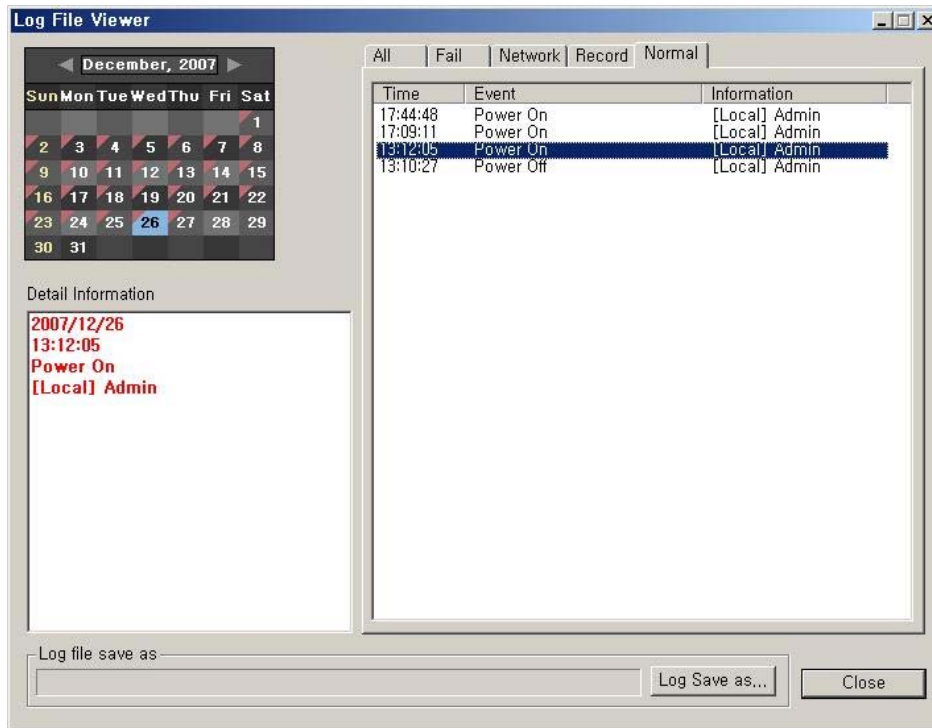
(5) Record log view

- ① Select the [Record] tab on the Log information window right, there appears the Record log information lists.
- ② Click an event at a specific time, you can view detailed log information on the detailed information window left.



(6) Normal log view

- ① Select the [Normal] tab on the Log information window right, there appears the normal log information lists.
- ② Click an event at a specific time, you can view detailed log information on the detailed information window left.



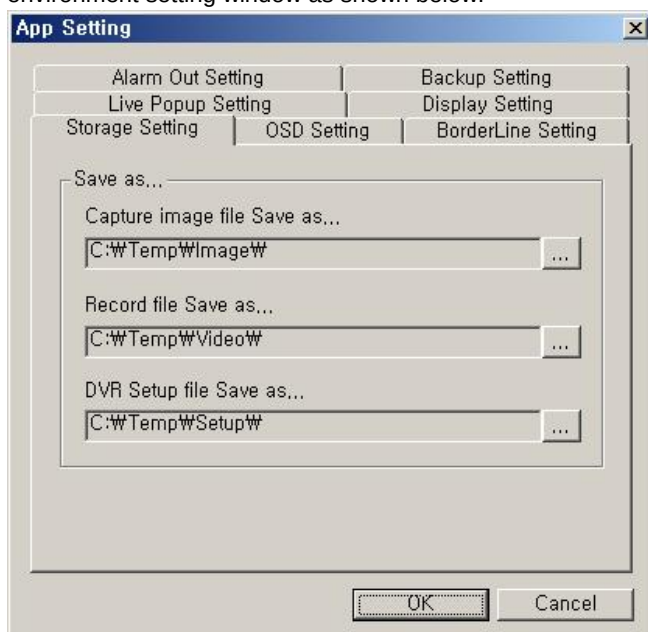
1-10. Environments Setup



- * You can use the following function in the environment setting.
 - capture image, record file download, and specification of the path for saved DVR setting file
- * specify OSD font, color, and size; set up information indication
- * Set the size, and color of border line; on/off setting
- * Set the number of the event live popup windows and event setting function
- * 720 -> 704 Pixel output function, screen layout unit setting function; color and font size setting of connecting, no signal, and screen disconnection
- * DVR alarm output setting function
- * Save and call the configuration value and the address book

1) Setting storage devices

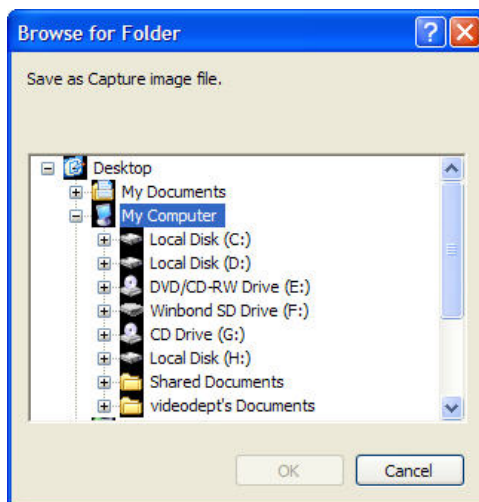
① Click the  button on the right of the program screen, then there appears the environment setting window as shown below.



② Setting storage devices – Click the path specification button on each storage path and specify storage paths.

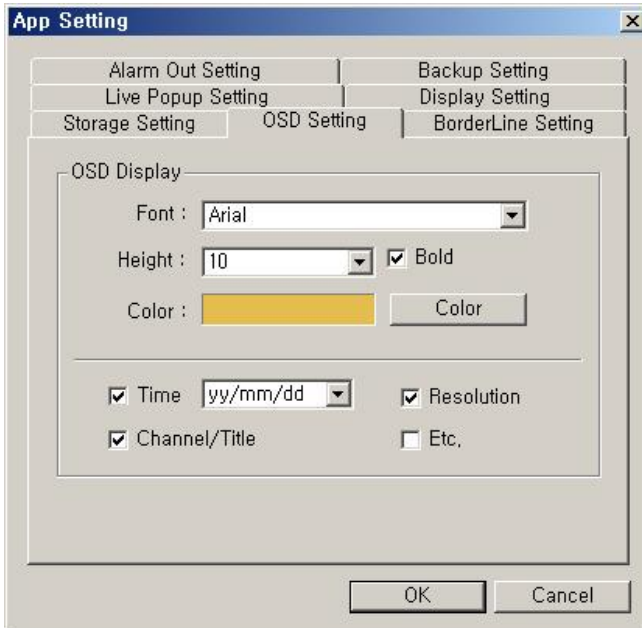
※Default Path

Image File	C:\Temp\Image
Download File	C:\Temp\Video
DVR Setting File	C:\Temp\Setup



2) OSD Setup

- ① Select the OSD setting tab. Then you can specify the use of OSD, the size and color of the OSD font. You can also choose to use the on/off function of the OSD on the screen or not.



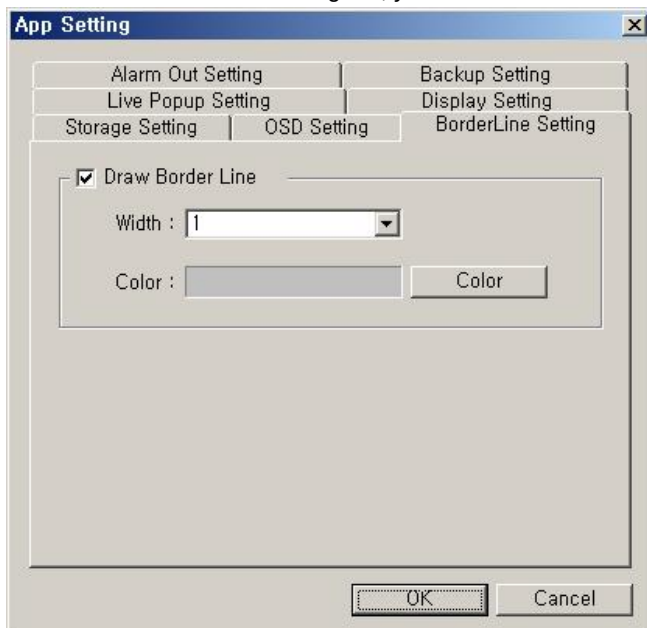
- ② Specify after choosing an OSD font from the list. Select an OSD size from the list, and decide whether you use a bold style or not.
- ③ Press the color button, then you can specify a color you want on the color specification window.
- ④ OSD letter setting applied.



⑤ Select the information visible or not on the picture screen.

3) The border line setting

① Select the border line setting tab; you can choose the use of the border line and color and thickness.

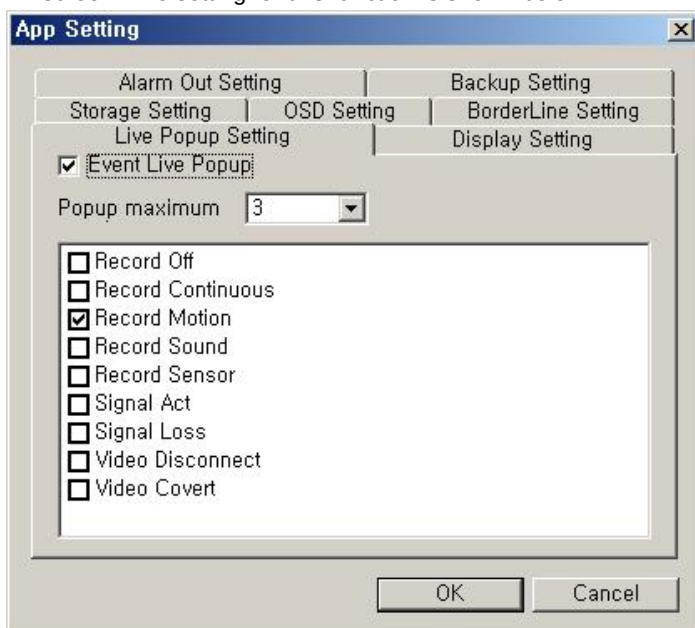


② The border line setting applied



4) The Event line popup setting

- ① The event live popup function is to show the event real time live picture on the popup screen. The setting for this function is shown below.



1. The Event line popup setting :

The event live popup function is to show the event real time live picture on the popup screen. The setting for this function is shown below.

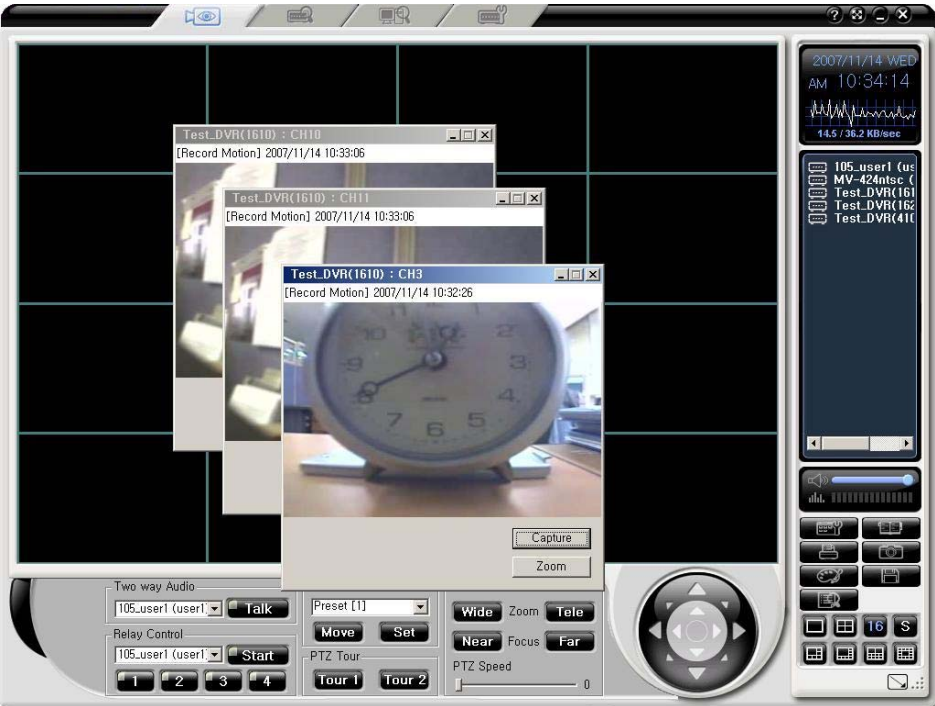
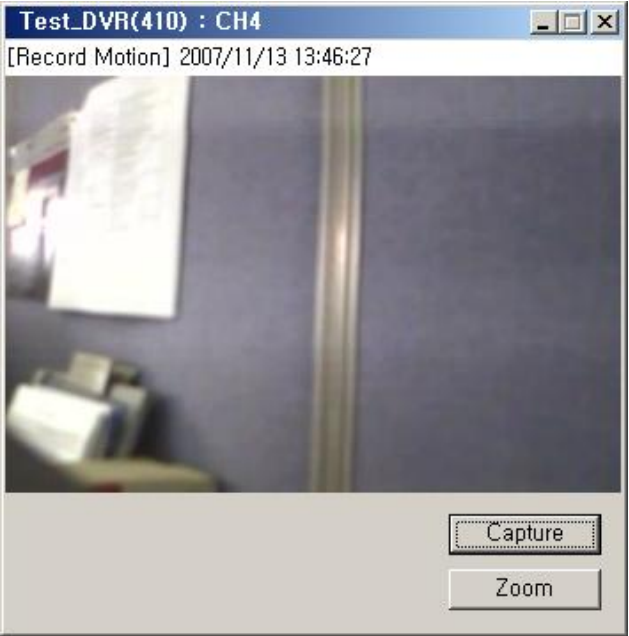
2. The application of event live popup :

Set the numbers of the pop windows. When more windows than the specified are used, the popup windows which were first on the screen will disappear.

3. Event setting :

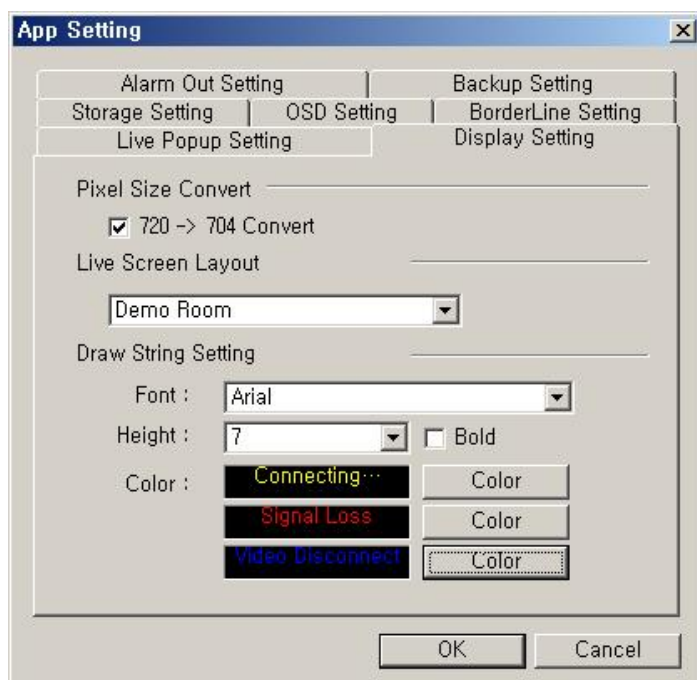
setting events such as stop consecutive recording, movement recording, audio recording, sensor recording, signal, signal loss, and video disconnection.

- ② The date, time, and channel information of the current channel appear on the event live popup window, and the capture function and magnify/contract function are provided.



5) Screen setting

① Screen setting tab presents the screen output of program.



1.Pixel number and size convert :

a screen recorded in 720 pixel is converted to 740 pixel

2. Live screen layout :

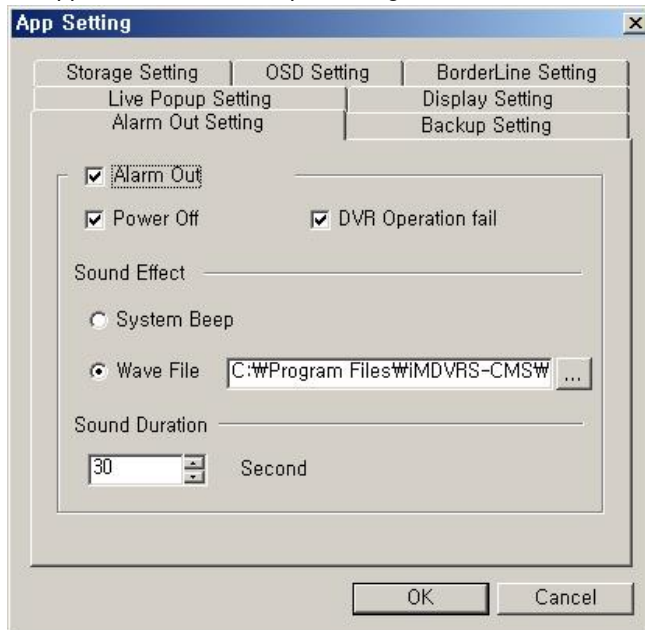
The first screen is selected and produced automatically, after the network connection in the first drive of program

3. Draw string setting :

Connecting, signal loss, video disconnected, message font, height, bold, and color selecting function

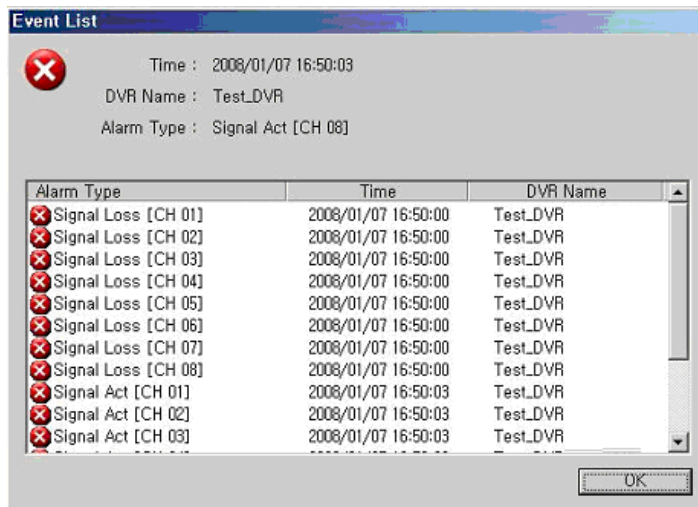
6) Alarm output setting

- ① When an event happens, an event message output and an alarm output repeatedly appear in the alarm output setting



1. Power shut off : Power close
2. DVR operation failure : backup failure, network link failure, no signal, pan operation failure, hardware failure, hard disk failure, codec failure, codec recover, signal connection, video connection cancellation, video hide, Hotswap add/delete, and hard disk danger
3. Sound effect : you can select the system beef sound and the wave file.
4. Sound duration time : Alarm sound can be selected per second.

- ② The event list box outputs an event message, when an event happens.



When a log event happens in the DVR system, there appears the event list windows as shown in the picture. There are all time, and DVR name in the list. The sound effect is reproduced and continues until the user presses the confirm button.

7) Backup setting

① The backup setting tab saves all the data in backup files or applies saved backup files



It can save and recover environment setting values.

Summon – the saved information in files is applied to the current program.

Save- the current program information is saved in files.

1-11. video image capture

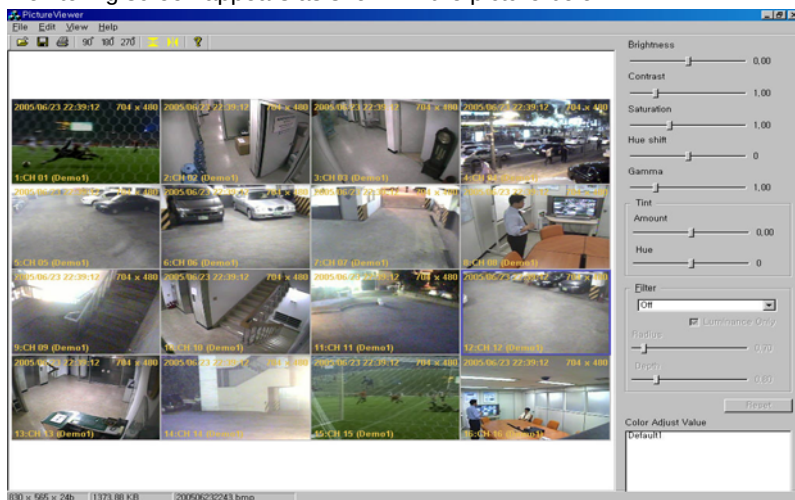


It captures the current monitoring screen and saves as picture images.

※ The captured images are saved in a path specified by the environment setup

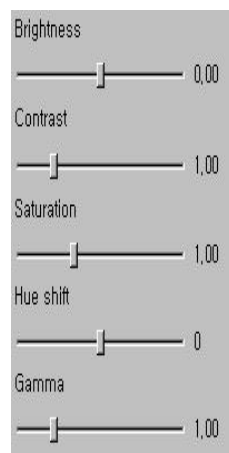
1) The current screen capture

① Press the  button on the right of the program. The picture captured by the current monitoring screen appears as shown in the picture below



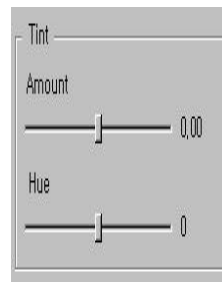
2) Brightness/ darkness/ saturation/ color/ gamma adjustment

Brightness/ darkness/ saturation/ color/ gamma values are adjusted by the movement of the slide bar in the right panel control box.



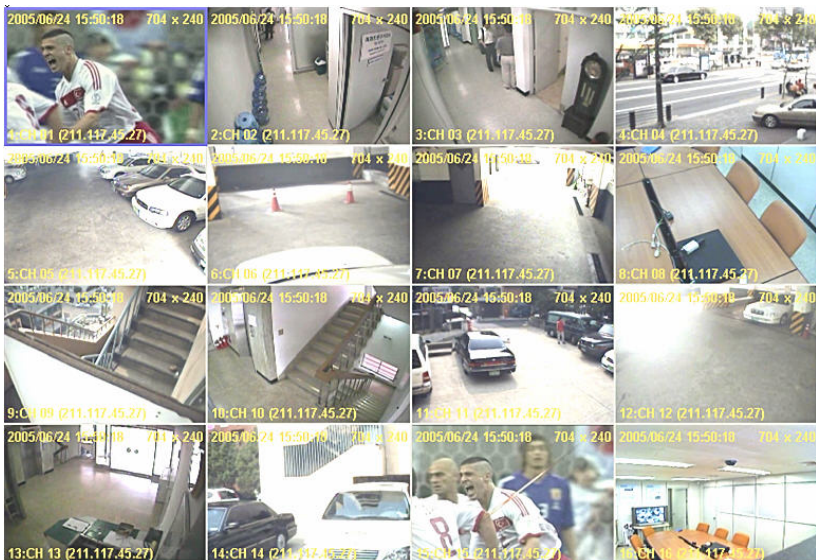
3) color adjustment

- ① Color values are adjusted by moving the slide bar in the right panel amount and hue control box.



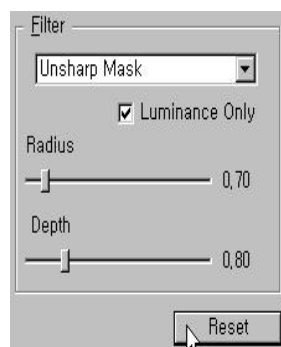
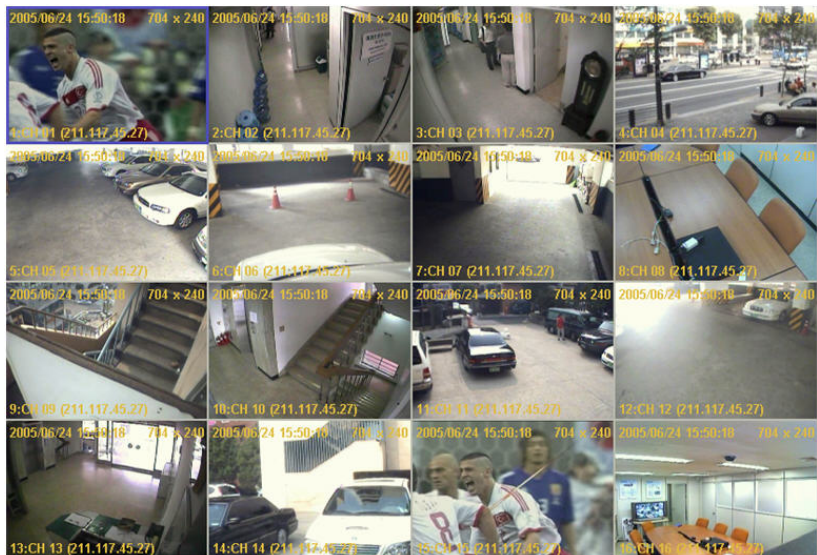
4) Filter application

- ① Filter values are adjusted by moving the slide bar in the right panel amount and hue control box.



5) original picture recover

① Click the [reset] button in the right panel. Then the original picture is recovered

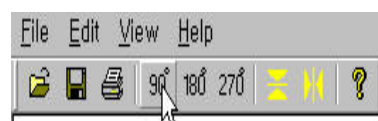


6) Rotation

① Click an angle icon in the top icons. Then the picture rotates to the angle.

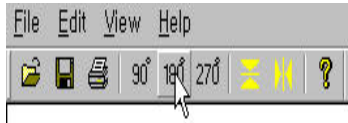


90° reversal



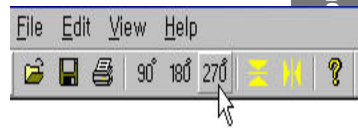


180° reversal



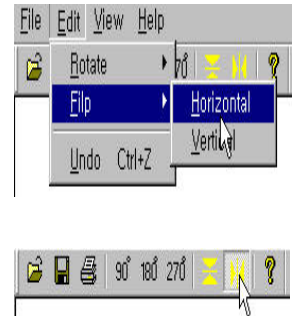


270° reversal



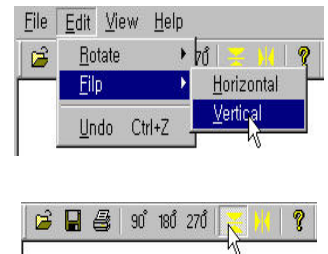
7) Left/right reversal

① Click the  icon in the top menu, or select [Edit] -> [Flip] -> [Horizontal].



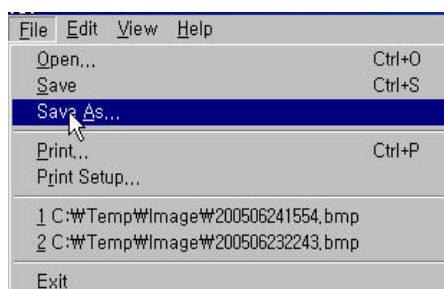
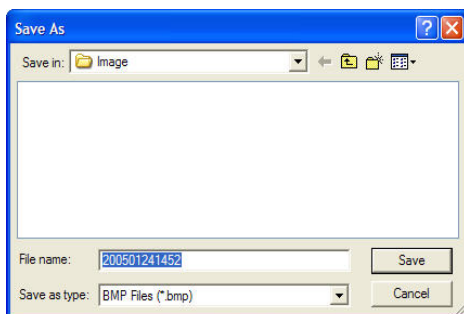
8) Up/down reversal

① Click the  icon in the top menu, or select [Edit] -> [Flip] -> [Vertical].



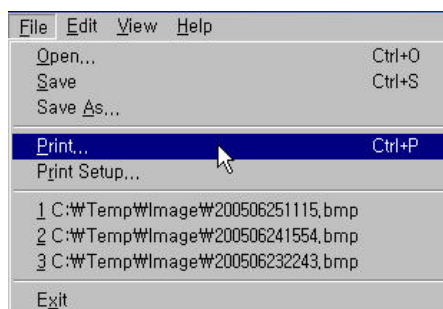
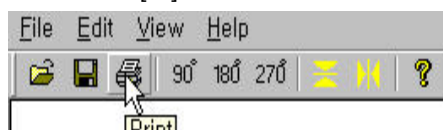
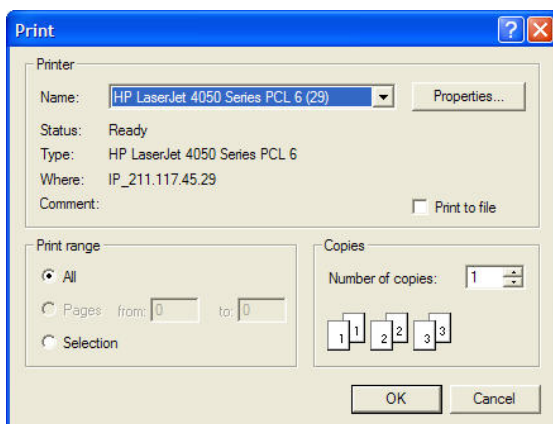
9) Save

- ① To save in the basic folder and file name, click the  icon in the top menu or select [File] -> [Save].
- ② To save in a different name, select [File] -> [Save as] and enter a file name. If you want to save in bitmap, save as file name.bmp or if you want in Jpeg, save as file name.jpg.



10) Print

- ① Click the  icon in the top menu, or select [file] -> [print].
- ② When the print window appears, select the print option and click [ok] button.



11) Image print



Print out a saved image through the printer

(1) Image print

- ① Click the  button on the right of the program screen. The saved image file list window saved by the monitoring screen capture will appear.

Name	Date	Time	Size
200711011609.bmp	2007/11/01	16:09	1380 KB
200711151707.bmp	2007/11/15	17:07	1380 KB
200711201742.bmp	2007/11/20	17:42	1380 KB
200711231633.bmp	2007/11/23	16:33	1380 KB
200712181033.bmp	2007/12/18	10:33	1380 KB
200712181034.bmp	2007/12/18	10:34	1380 KB

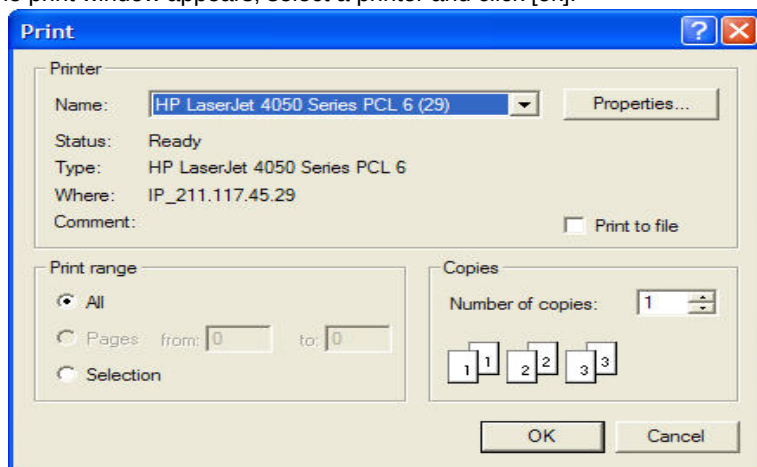
Preview Close



- ② Select the image file in the file list window, and click the [preview].
The preview window appears.
- ③ Enter a title of print to "title" in the preview window, and an explanation of print to "memo."
Click the [print] button.



- ④ When the print window appears, select a printer and click [ok].



1-12. To save Real time pictures



It records real time pictures

1) To save Real time pictures

- ① Click the button in the program screen. The **REC** mark light turns on and recording starts.
- ② The saving path of recorded files is the specified folder in 1-5-9. For instance, the file saved on 15th December 2007 becomes 2007W12W15W170000_Live folder.
- ③ To stop recording, click button again. The **REC** mark will disappear from the screen and recording stops.



MV series DVR model does not have a record function.

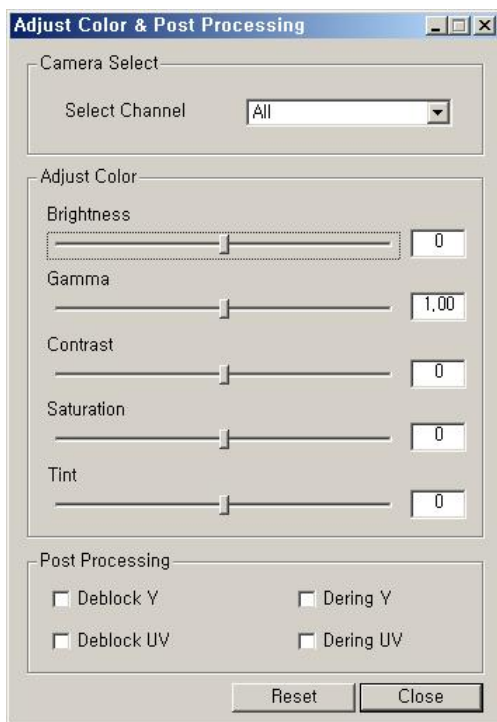
Color adjustments



It adjusts the brightness, Gamma, Contrast, Saturation, Tint and Post processing Filter of the channel pictures.

1-13. To adjust colors

- ① Click  button in the program screen. There appears adjust color & post processing window.



- ② Click channel check box in the adjust color & post processing window and select a channel.
 Drag Brightness, Gamma, Contrast, Saturation, Tint adjust columns and adjust.
- ③ Press [initialization] button and return to the initialization.
- ④ When color adjustment is completed, press [close] button.

 When adjust Brightness, Gamma, Contrast, Saturation, and Tint, you can view the real time change of the monitoring screen. (MV series DVR model does not have this function.)

1-14. Full screen modes



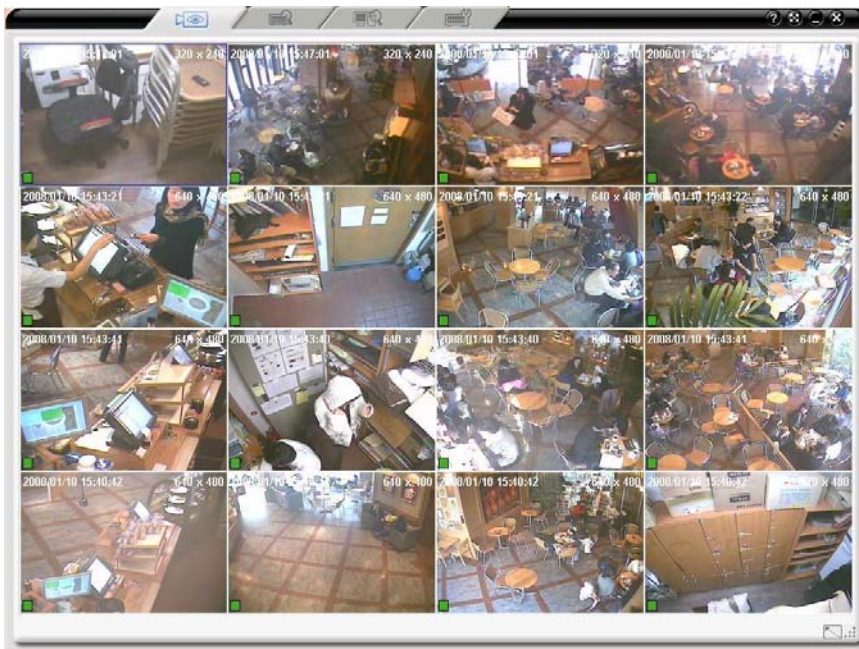
It changes a real time monitoring screen to a full screen mode.

1) Full screen view

- 1 Click  button in the program screen, and you will have a full screen mode.



- ② To return to the basic mode, click the  button in the program screen.



1-15. Record search



It searches and reproduces long distance DVR recorded pictures in real time.

1) To search Recording

- ① Select  tab on the initial screen of the program.
- ② Drag the DVR unit name you want to search from the connected DVR lists on the right and drop it on the monitoring window.



- ③ When you move a slide bar, pictures in each channel will appear if there is saved files at the time. The unit of a column is an hour, and the color of column indicates record events.



- ④ Select playback or download and start a search per minute. When you move a slide bar as shown the picture below, pictures in each channel will appear. The unit of a column is a minute, and the color of column indicates record events.



- 2) Select a search method

Status Bar

It indicates recorded pictures by hour/minute unit in a bar graph.

File List

It indicates recorded pictures by hour in a list mode.

① Click [status bar] or [file list] on the search window and select a search method.

Status Bar



File List



- ② If you change time in DVR system, recording events before time change turn into blue color

Status Bar



File List



- ③ You can search DVR system and recorded picture and voice. Pictures and voices can be searched separately.

Status Bar



- 3) Select time and date

- ① The date recorded on the search screen is checked with red color on the edge. Select a

date you want.

- 📅 The starting day of the week in the calendar can be Sunday or Monday according to the country.

January, 2008						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

- ② Select the recorded date in the calendar, and then the recorded status on the day will appear from 0 to 23 hour as shown in the picture below.



- ③ Select A&V, Video, Audio tabs on the top of the search screen, then the recorded status in audio or video will appear. Select All, Motion, Sensor, Audio tabs, and then the recorded status in the recorded events will be indicated.



- ④ To search by minute, press playback or download button in the selected hour. You can find the minutes when the pictures were recorded.

A&V		Video	Audio	All	Motion	Sensor	Audio
Hour	0			10	12		24
Minute	0			30			60
Day	CH						
11	1						
11	2						
11	3						
11	4						
11	5						
11	6						
11	7						
11	8						
11	9						
11	10						
11	11						
11	12						
11	13						
11	14						
11	15						
11	16						

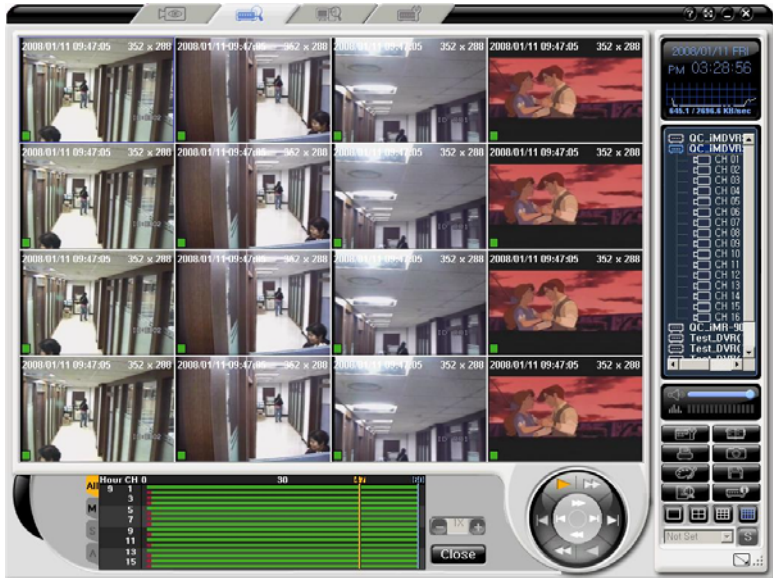
1-16. Playback

Playback

: It playbacks the long distance DVR recorded pictures in real time

1) To playback

- ① Specify the time and click the playback button. A playback screen will appear as shown in the picture.



- ② Using the playback control button, regulate the playback speed. Press the playback start button.



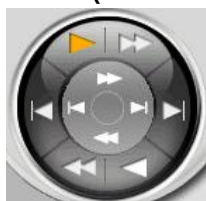
	Forward Play
	Forward Single Frame Play
	Fast Forward
	Reverse Play
	Reverse Single Frame Play
	Fast Rewind

	Forward Play Reverse Play	It starts in x1 speed, and speed can be regulated from x1/16 to x1/2, or from x1 to x16 in one channel mode.
	Fast Forward Fast Rewind	it starts in x 30 speed, and speed can be regulated from x 30 to x 300 in one channel mode.
※	You can increase or reduce the playback speed by using button on the left of playback control button in one channel mode.	

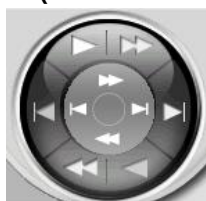
※	It supports a successive playback. If you do not stop playback, it continues to playback to the following time. When there is no file in the following time, it stops. If the index number of the recorded file is different, it does not continue its playback and stops its function.
---	---

- ③ To stop playback, click the close button.
- ④ When the playback stops, it returns to the previous search screen.
- ⑤ If you want to playback files recorded in another time continuously, repeat previous steps.
- ⑥ Limitation

1ch Mode (Full Screen)

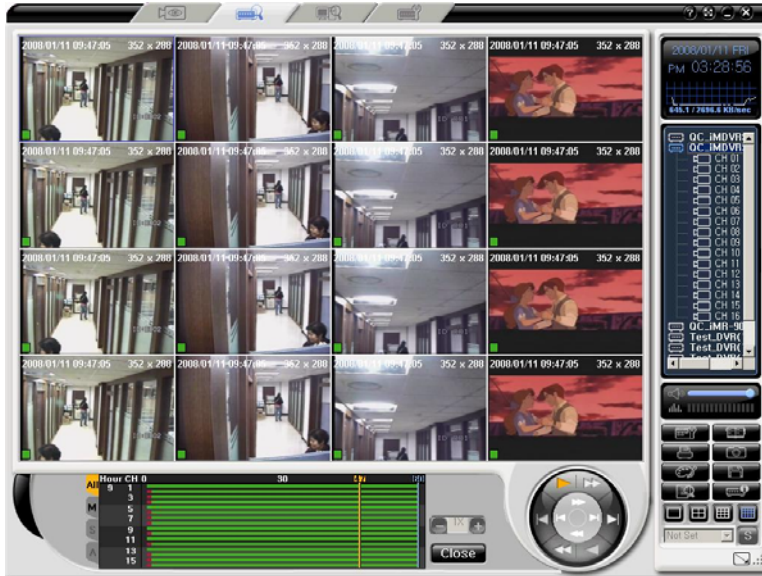


Normal Mode (4ch~16ch divided screen)



	Available		N/A
	Available		Available
	Available		Available
	Available		Available
	Available		N/A
	Available		N/A
	Available		Available
	Available		N/A

- ⑦ You can playback audio files only in 1 mode channel
- ⑧ Only 16 channel mode    buttons can be
- ⑨ When playback in 16 channel mode, the following functions are limited as shown in the picture below



If you want to go to a different minute during playback, move the slide bar to, or click the minute you want to select.

- ⑩ When you playback in 1 channel mode, you can use all the function shown in the picture below



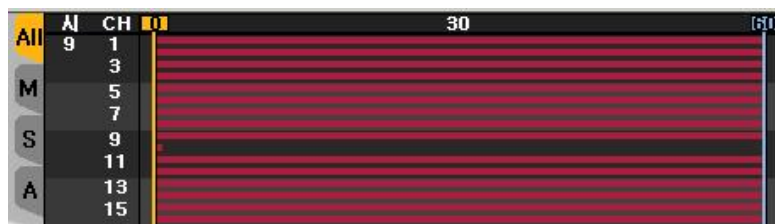
You can use capture and print function in playback mode

2) Record and playback per event

Record search



Playback



- ① To use playback function per event, search each event in playback search mode and playback
- ② or select an event from the status bar during playback.
- ③ When you playback in 1 channel mode, you can use all the function shown in the picture below



3) Recorded pictures download

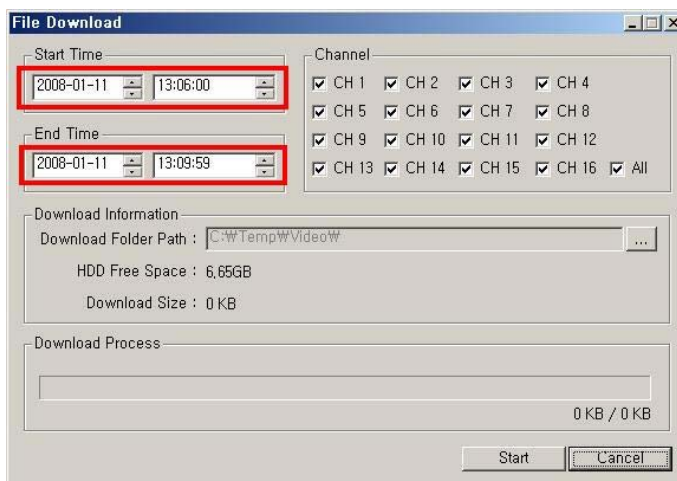
- ① In the search mode, drag the time selection line from the search window, and select the time to start download. Click the download button.



- ② Select time first, and then decide starting minutes and closing minutes. Click the download button.

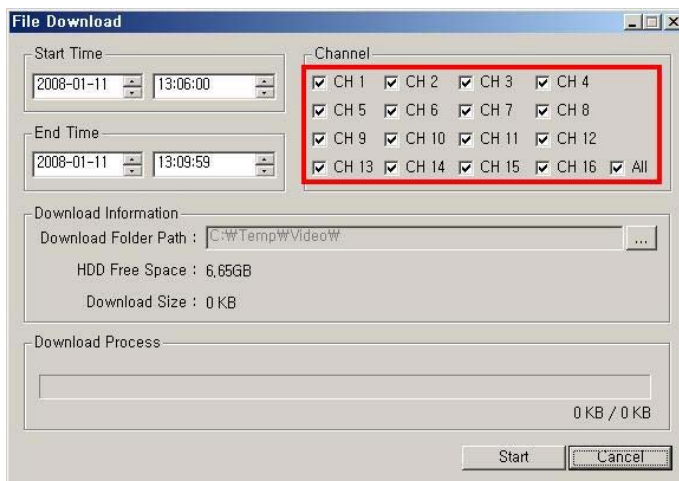


- ③ After selection, press the download button. There appears the download selection window. Choose the starting and closing time.

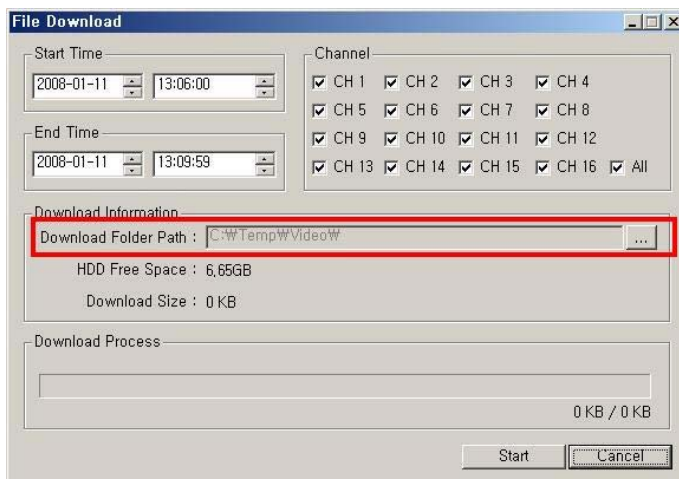


- A continuous download is possible, so you can download several hours file by selecting successive hours

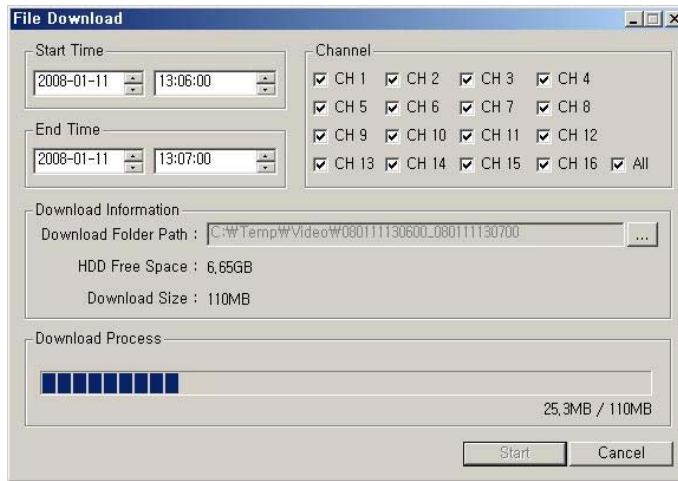
- ④ After setting time, select channels to download as shown in the picture below and check.



- ⑤ After setting channels, specify the storage path as shown in the picture below.



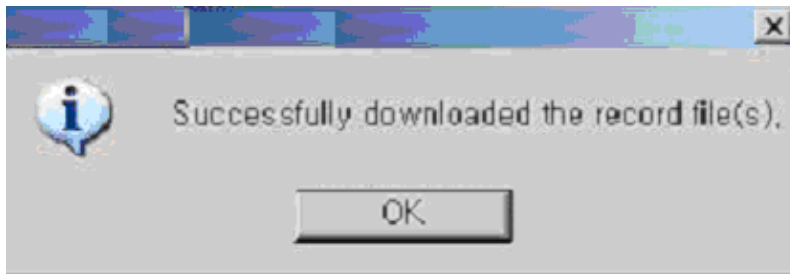
- ⑥ After completing all settings, press the start button. The saving folder name and the file size for download appear as shown in the picture below.



- 📖 The download file is produced and saves in a folder specified by application and in download starting and ending time.

Ex) if the file is saved from 7 hour 59 minutes 0 second to 8 hour 1 minute 59 seconds on 14th February 2007, the file name is.

- ⑦ When a download is completed, a message box appears. Click the ok button.



1-17. Local Player



Remote monitoring and play back in real time

1) Record file search and playback

- ① Select the  tab on the program initial screen
- ② There appears the initial screen with the folder search window as shown in the picture below.



2) Record file search and playback

- ① Search the folder list on the program screen in the local playback mode. Search the folder which has the download or backup record files



- ② The folder with a recorded file has starting date and time and finishing date and time in its name.
Select a backup folder or a folder for download.



- ③ After selecting a folder for playback, click the  button, and then the first screen in the selected time appears stand still as shown in the picture below.

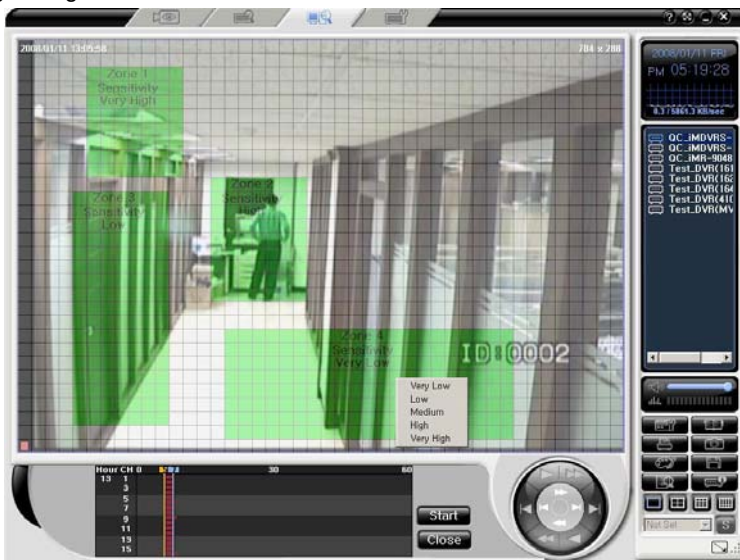


3) Smart search function

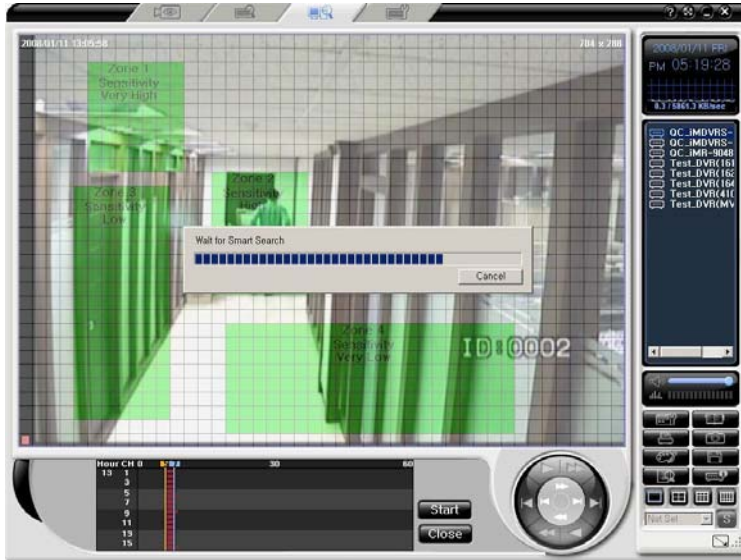
- ① To start a smart search, press [smart search] in playback or start mode, and then the playback stops.



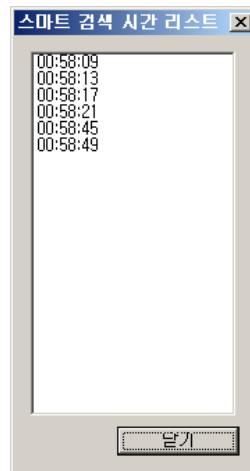
- ② Select a channel for the smart search and double click. There appears the Grid window in which the zone of the smart search can be specified. Four zones can be selected; they can be specified by dragging the mouse. The sensitivity can be chosen in 5 steps by pressing the right mouse button.



- ③ When the smart search starts and there is a movement in the specified zone as shown in the picture below, a screen appears.



- ④ When the smart search completes, the times when there are movements in the specified zone are shown in the list. If you click a list, the search moves to the time zone of the list. With double click, the playback of the time zone starts.



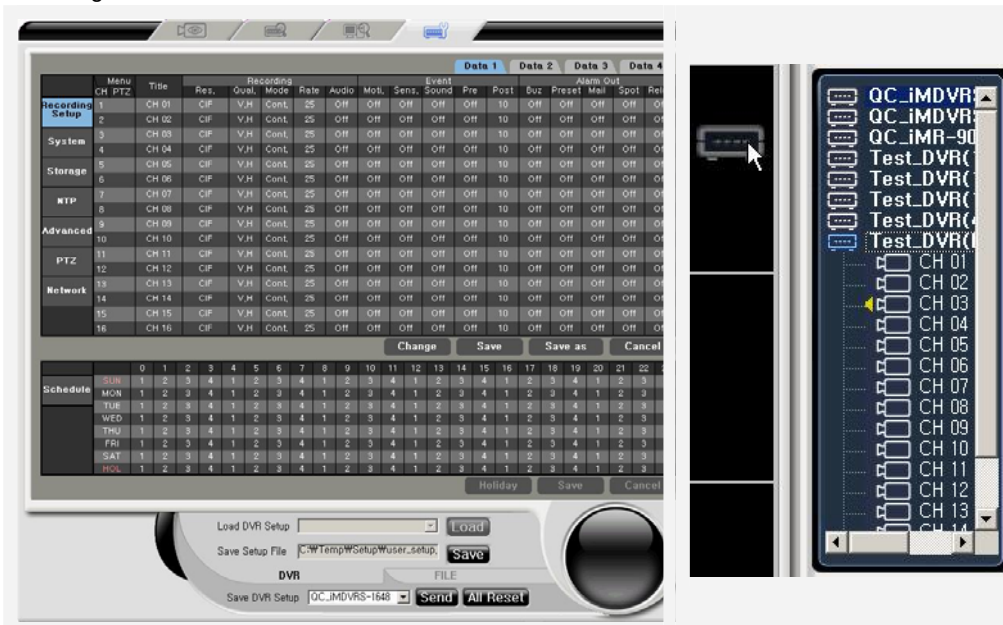
1-18. Remote Control setting



It functions for DVR main setup, and app setup by a remote control.

1) Start

- ① Select the program initial screen  tab.
- ② Drag DVR IP or Alias Name you want to select from the DVR list and drop it on the monitoring window



2) DVR Main/App Setup

(1) Main/App Setup

- ① Remote DVR setting screen is the same as DVR OSD (on screen display).
 - ② Using the mouse on the DVR setting screen, you can change the system setting values.
-  For the system setting method, consult the system setting in each DVR model.
PVDR-1686/1685/1684/0884/0484L

- ③ Click the right button of the mouse in the zone where you want to change the setting values, and then there appear possible setting value ranges. Select a value and change.

Recording	al.	Mode	Rate	Audio	Moti.	Sens.	Event	Sound
H	Auto	Auto	Normal :25				Off	
H	Cont.	25	Event :25				1	
H	Cont.	25	Off	Off	Off	Off	2	
H	Cont.	25	Off	Off	Off	Off	3	
H	Cont.	25	Off	Off	Off	Off	4	
H	Cont.	25	Off	Off	Off	Off	5	
H	Cont.	25	Off	Off	Off	Off	6	
H	Cont.	25	Off	Off	Off	Off	8	
H	Cont.	25	Off	Off	Off	Off	13	
H	Cont.	25	Off	Off	Off	Off	25	
H	Cont.	25	Off	Off	Off	Off	50	
H	Cont.	25	Off	Off	Off	Off	100	

- ④ In case you should enter a name directly like a channel name, you can change it by double click..

Recording Setup	1	CH 01
	2	CH 02
System	3	CH 03
	4	CH 04
Storage	5	CH 05
	6	CH 06
NTP	7	CH 07
	8	CH 08



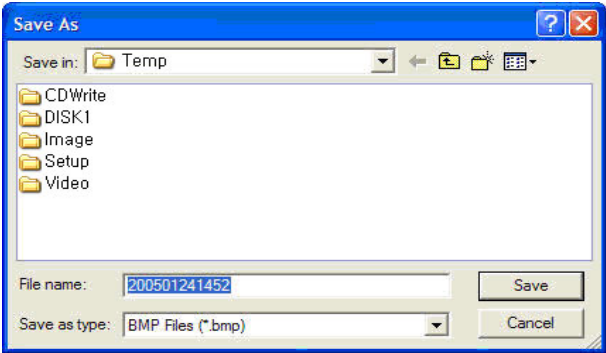
Recording Setup	1	CH 01
	2	CH 02
System	3	CH 03
	4	CH 04
Storage	5	Lobby
	6	CH 06
NTP	7	CH 07
	8	CH 08

- (2) .Open

When DVR system is connected, [open] button is non-activated. Apply a setting value by drag & drop.

- (3) Save

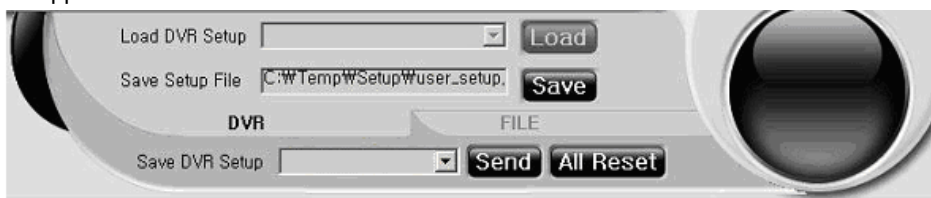
- ① Modify the setting value on the screen by using the mouse. Click the save button, and then the current setting value is saved (extension *.bin)



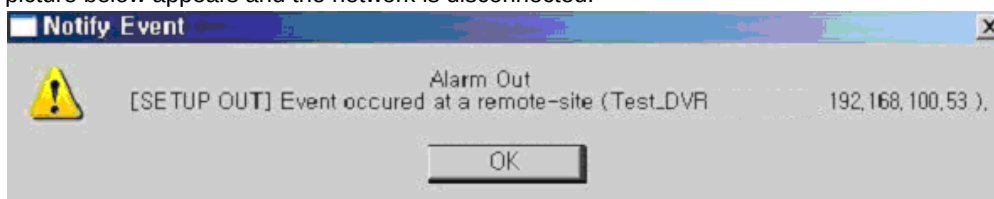
- ② Click [save] button and save as a file.

(4) Send

- ① When a remote DVR is connected, a DVR list currently connected in [DVR setting save] will appear.



- ② Select a DVR you want to modify and click the [send] button.
- ③ The modified DVR setting value is applied to the remote DVR. A message window as shown in the picture below appears and the network is disconnected.



(5) Initialization

- ① Initialize as Factory Setting
- ② Click [Initialization] button on the screen



- ③ All setting values are initialized with beep sound in DVR system.



3) DVR Setup

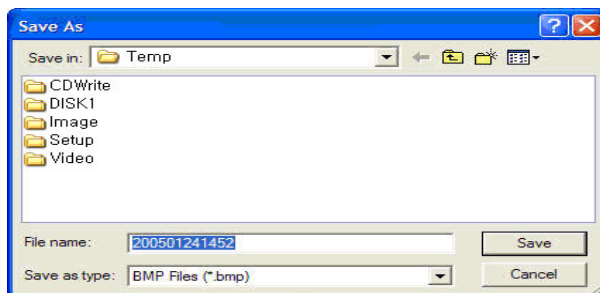
(1) Open

- ① Click the file in remote setting mode.





- ② File Open
- ③ File Save
- ④ Click [Open] button



- ⑤ Click the [Open], the DVR settings will appear.



- ⑥ Save : The current settings are saved
- ⑦ Send
- ⑧ Initialization : All settings are initialized(Factory Settings).



Notice :

A setup error causes malfunction in record in DVR setup. Check the record condition after setup.

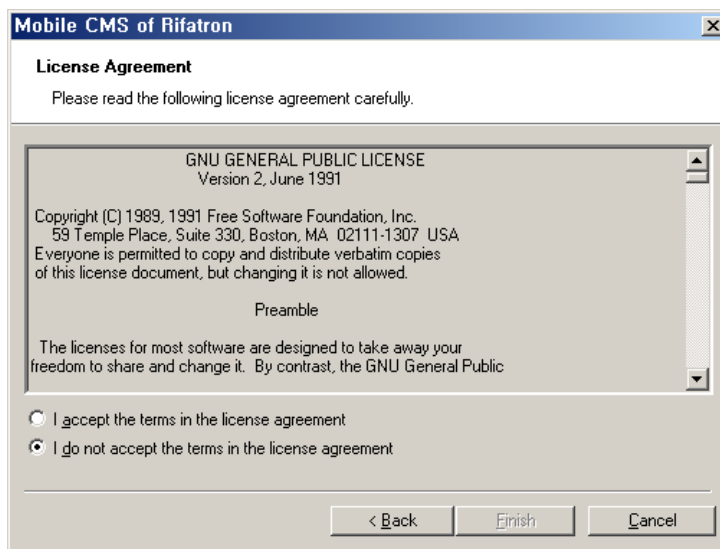
2.Polyvision-MCMS(PDA Viewer)

2-1. Overview

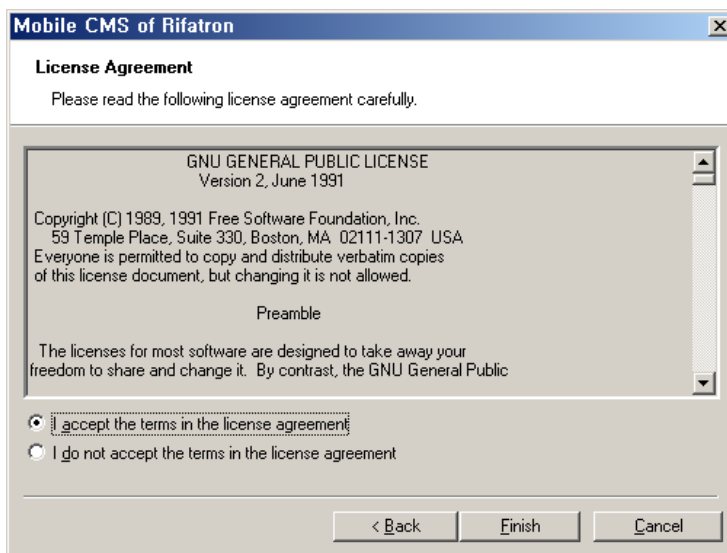
This program is designed to allow the user to see images through the PDA.

2-2. Installation

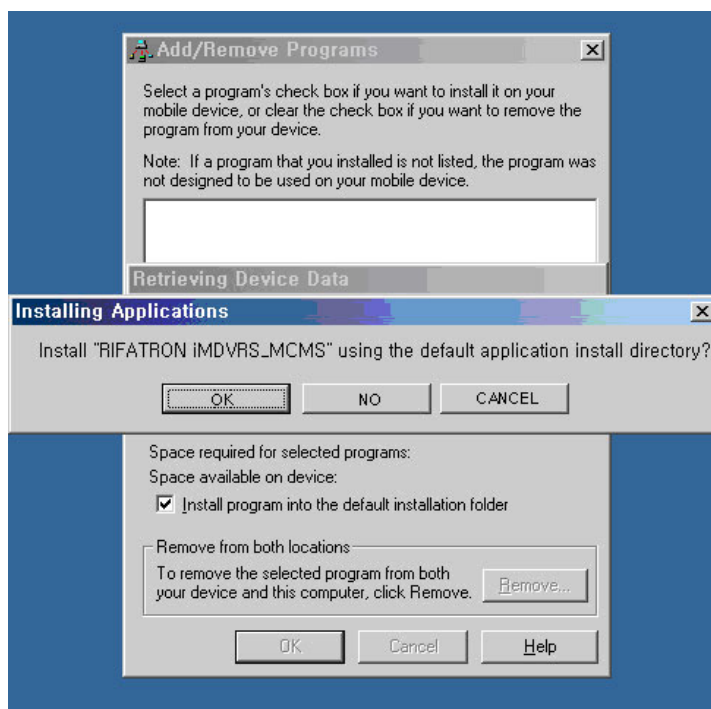
- 1) In order to install the PDA Viewer, you have the Microsoft Active Sync (Version 4.0 or higher) installed in your computer.
- 2) After your computer and PDA are synchronized, run the CMSSetup.exe to install the Polyvision_MCMS.
- 3) Click the [Next] button.



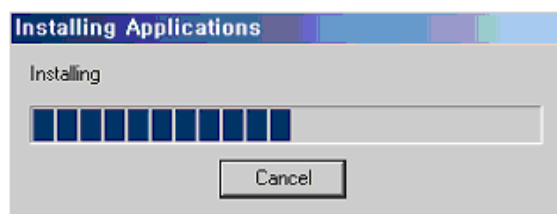
- 4) Read through the End User License Agreement(EULA) carefully. If you select the item related to the acceptance, the [Finish] button is enabled. To continue to install the program, click the [Finish] button.



- 5) If you click the [Yes(Y)] button on the next screen, the system checks the connection with the PDA and starts the installation from the PDA.



- 6) This is the screen during the installation at the user's computer side. You can complete the additional installation tasks from the PDA.



- 7) This is the screen when the PDA installation is in process.



2-3. Running and using

- 1) If you click the  button on the left-upper side of the screen, the access dialog box is displayed.



- 2) After entering the IP address/port/user/password, click access.



3) While trying to connect, the 'IP address' and 'accessing ...' are displayed.



4) When the connection is failed, the following screen is displayed. Then, please check the connection information again.



- 5) When the connection is successfully established, the following screen is displayed and the number of connected channel is activated.



- 6) For the camera that the PTZ control is connected, you can control it through the following buttons.



- 7) The [PRESET] is used to save the values by controlling Pan/Tilt/Zoom/Focus of the PTZ camera. You can save up to 8 control phases using ① to ⑧.

8) If you click the screen of the corresponding channel, the full screen mode comes up.



9) If you click the  on the right side of the screen, the sound, for the channel where the sound is set, is played



10) To release the connection, click the  button.



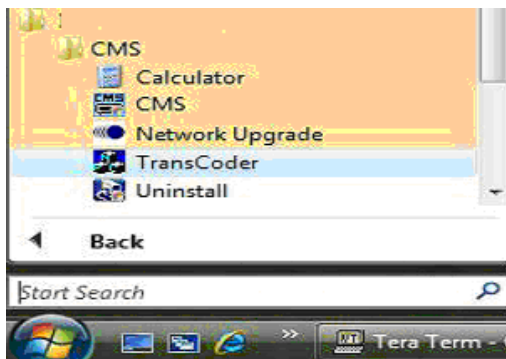
3. Transcoder

3-1. Overview

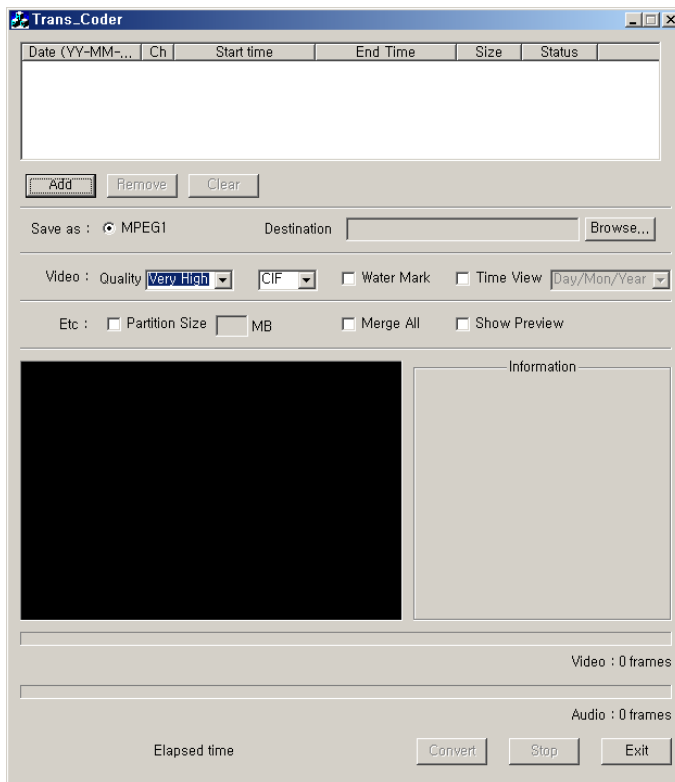
This program transforms the MPEG-4 format download and recorded files to MPEG-1 format files, allowing the user to see them using the Windows Media Player.

3-2. Running and using

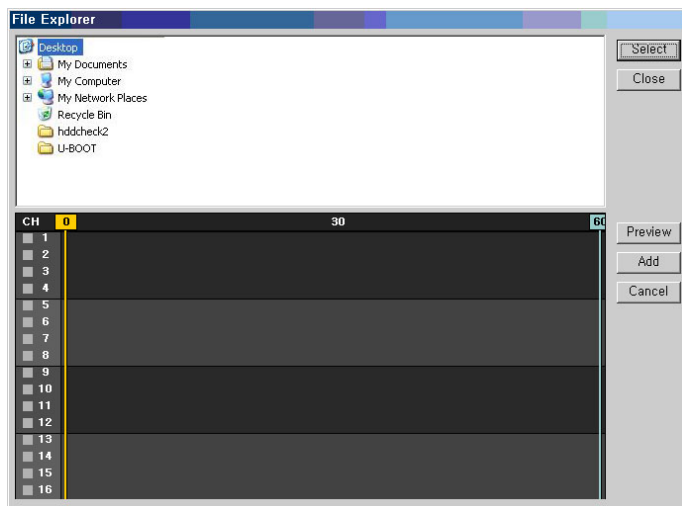
- (1) Click the Start > Programs > DVR Remote Access Program > Polyvision-CMS> TransCoder menu.



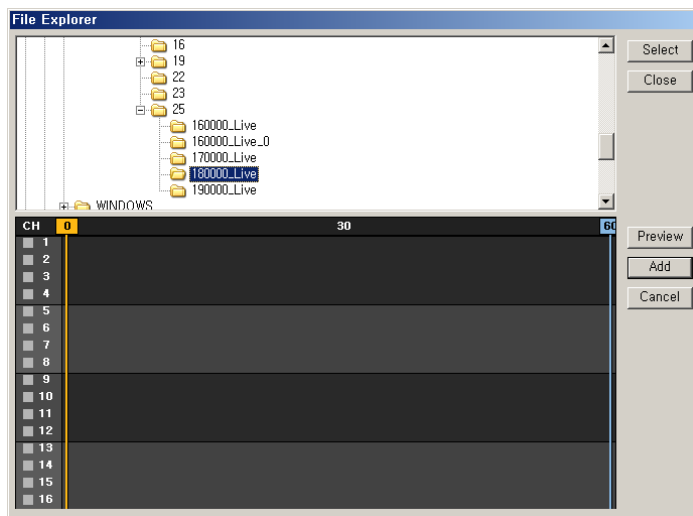
- (2) Then, the following screen is displayed.



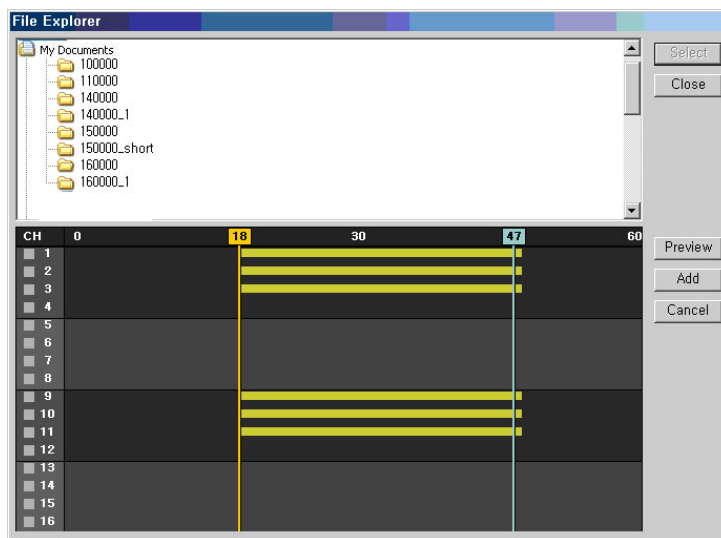
(3) Click the [Add] button to search the file you want to transfer.



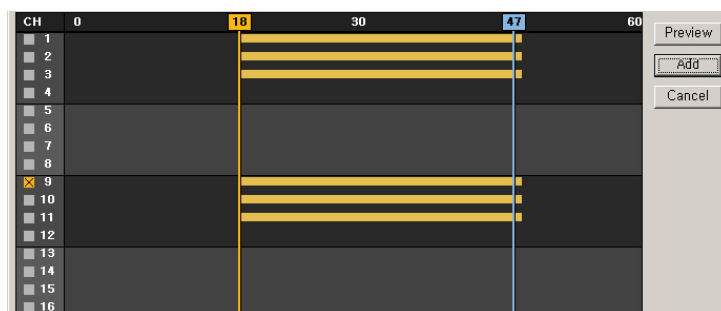
(4) Select the directory for the desired time zone from the directory list, and click the [Select] button on the right-side of the screen.



- (5) Once the selection is completed, the corresponding zone of the image is displayed as a graph.



- (6) If you select a channel from the list, the front side of the channel is indicated with the  mark.



- (7) To preview images of the corresponding channel, click the Look ahead button.



Start – plays images

End – stops the Look ahead and closes the dialog box.

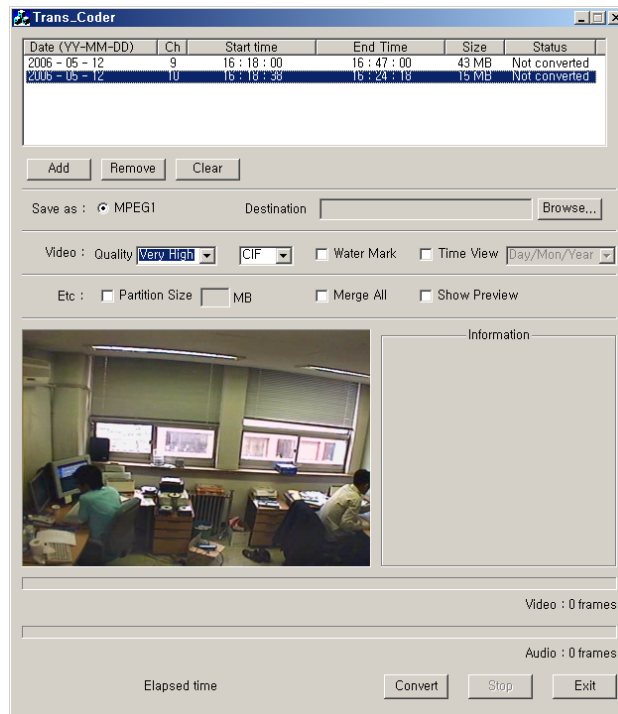
Capture – saves the corresponding image as a picture file.

Color – changes the color of texts displayed on the screen.

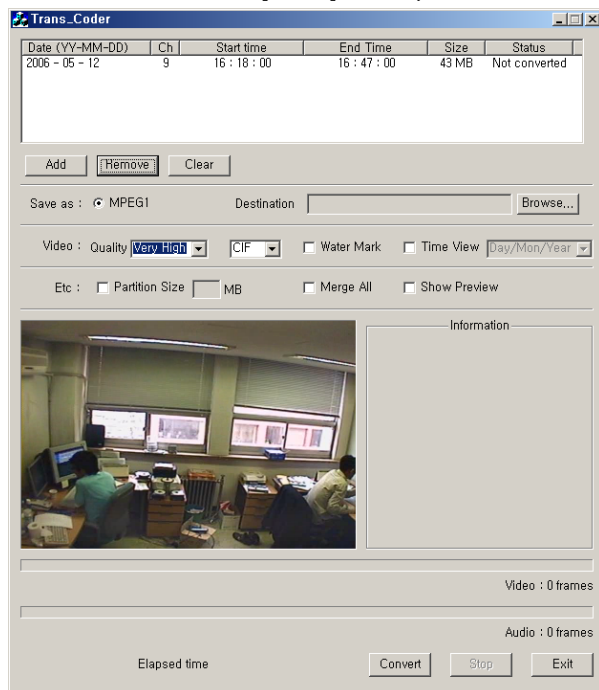
Check - stops the Look ahead and closes the dialog box.

Cancel – closes the Look ahead dialog box.

(8) To remove an image from the list, select it and click the [Delete] button.

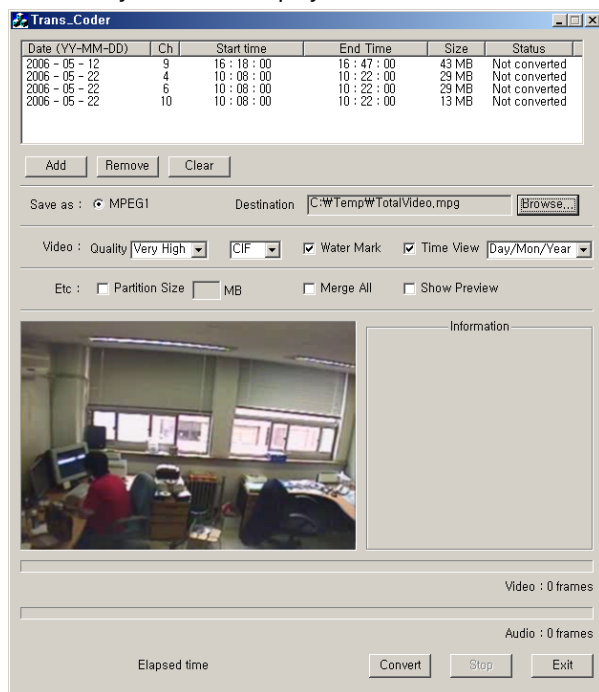


- (9) This shows that an image is removed from the list by using the [Delete] button. (To clear all images from the list, click the [Erase] button.).

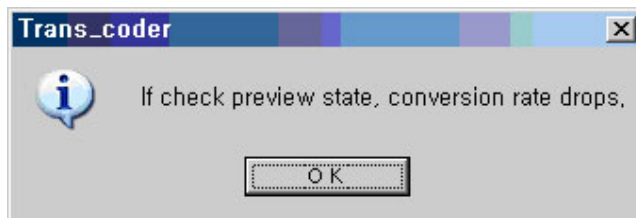


- (10) Only the MPEG1 file format is supported.

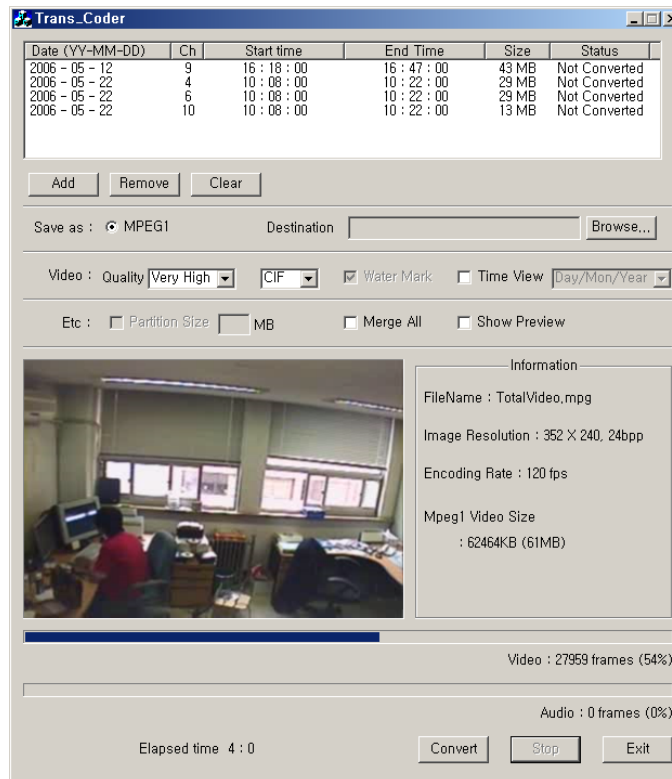
- (11) Specify a file name that you want to display in the Destination.



- (12) Quality represents picture quality and consists of Very highest – high – middle – low – lowest steps
- (13) CIF / FULL indicates the resolution.
- (14) The predefined watermark is inserted into the image. It is not visible to the naked eyes but a dedicated detector.
- (15) If Time is selected, the data and time that you intend are included on the screen.
- (16) If you select the fragment size from the Etc and enter a size, the image is segmented according to the input unit. (Unit: Mega Byte)
- (17) With the Merge All, you can merge images by channel and by time as one file.
- (18) If you select the Show Preview, the following warning message is displayed. You can see the transformation process on the screen although its speed decreases a little.



- (19) This screen shows the transformation process. To stop it, click the Stop button.



(20) Once the transformation is completed, a completion message is displayed as in the following figure. Then, click the [OK] button.



4. Calculator

4-1. Overview

- (1) The calculator program estimates the record duration depending on the HDD space and record settings.

4-2. Running and using

- 1) How to run it

- (1) Click the Start > Programs > DVR Remote Access Program > POLYVISION-CMS> Calculator menu

- (2) Basic screen

The screenshot shows a window titled "Calculator STANDALONE Plus". It contains a table with 5 columns: Channel, Max Bitrate (KByte), Recording Resolution, Frame Rate (Frame/Sec), and Recording Hour a Day (Hours). The table has 16 rows, all with identical values: Channel 1-16, Max Bitrate 1000, Recording Resolution CIF, Frame Rate 30, and Recording Hour a Day 24. Below the table are input fields: VIDEO MODE (NTSC), MODEL NO. (empty), HDD CAPACITY (GB) (empty), and DAY / HOUR (empty). At the bottom are three buttons: Calculate, Reset, and Close.

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	30	24
2	1000	CIF	30	24
3	1000	CIF	30	24
4	1000	CIF	30	24
5	1000	CIF	30	24
6	1000	CIF	30	24
7	1000	CIF	30	24
8	1000	CIF	30	24
9	1000	CIF	30	24
10	1000	CIF	30	24
11	1000	CIF	30	24
12	1000	CIF	30	24
13	1000	CIF	30	24
14	1000	CIF	30	24
15	1000	CIF	30	24
16	1000	CIF	30	24

VIDEO MODE: NTSC MODEL NO.:

HDD CAPACITY (GB): DAY / HOUR:

Calculate Reset Close

- (3) VIDEO MODE : There are two types; NTSC and PAL. (it depends on the camera specification.)
- (4) Model number : Enter the model number of the DVR system. (PVDR-16xx)
- (5) HDD CAPACITY (GB) : Enter the total space of the HDD. (Unit: Giga Byte)
- (6) Date/Time : calculates values are displayed. (** Days ** Hour)

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	8	24
2	1000	CIF	8	24
3	1000	CIF	8	24
4	1000	CIF	8	24
5	1000	CIF	8	24
6	1000	CIF	8	24
7	1000	CIF	8	24
8	1000	CIF	8	24
9	1000	CIF	8	24
10	1000	CIF	8	24
11	1000	CIF	8	24
12	1000	CIF	8	24
13	1000	CIF	8	24
14	1000	CIF	8	24
15	1000	CIF	8	24
16	1000	CIF	8	24

VIDEO MODE MODEL NO.

HDD CAPACITY (GB) DAY / HOUR

2) Description on detail functions

(1) Channel

To ON/OFF all channels, click the Channel in the title bar.

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	On	CIF	Off	24
2	Off	CIF	Off	24
3	250	CIF	Off	24
4	250	CIF	Off	24
5	250	CIF	Off	24
6	250	CIF	Off	24
7	250	CIF	Off	24
8	250	CIF	Off	24
9	250	CIF	Off	24
10	250	CIF	Off	24
11	250	CIF	Off	24
12	250	CIF	Off	24
13	250	CIF	Off	24
14	250	CIF	Off	24
15	250	CIF	Off	24
16	250	CIF	Off	24

VIDEO MODE: MODEL NO.:

HDD CAPACITY (GB): DAY / HOUR:

To ON/OFF a channel, double-click it in the same way.

(2) Max Bitrate (Kbyte)

Click the Max Bitrate (Kbyte) in the title bar to set all channels with a same ratio. (This figure shows that the ratio is changed from 250 to 1000.)

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	Off	24
2	250	CIF	Off	24
3	250	CIF	Off	24
4	250	CIF	Off	24
5	250	CIF	Off	24
6	250	CIF	Off	24
7	250	CIF	Off	24
8	250	CIF	Off	24
9	250	CIF	Off	24
10	250	CIF	Off	24
11	250	CIF	Off	24
12	250	CIF	Off	24
13	250	CIF	Off	24
14	250	CIF	Off	24
15	250	CIF	Off	24
16	250	CIF	Off	24

VIDEO MODE: NTSC MODEL NO.:

HDD CAPACITY (GB): 720 DAY / HOUR: 13 Hours

Buttons: Calculate, Reset, Close

You can modify the Max Bitrate (Kbyte) of a channel. If you click it, the color is changed to the orange color. To enter a number, double-click it.

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	Off	24
2	1000	CIF	Off	24
3	1000	CIF	Off	24
4	1000	CIF	Off	24
5	1000	CIF	Off	24
6	1000	CIF	Off	24
7	1000	CIF	Off	24
8	1000	CIF	Off	24
9	1000	CIF	Off	24
10	1000	CIF	Off	24
11	1000	CIF	Off	24
12	1000	CIF	Off	24
13	1000	CIF	Off	24
14	1000	CIF	Off	24
15	1000	CIF	Off	24
16	1000	CIF	Off	24

VIDEO MODE: MODEL NO.:

HDD CAPACITY (GB): DAY / HOUR:

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	Off	24
2	1000	CIF	Off	24
3	1000	CIF	Off	24
4		CIF	Off	24
5	1000	CIF	Off	24
6	1000	CIF	Off	24
7	1000	CIF	Off	24
8	1000	CIF	Off	24
9	1000	CIF	Off	24
10	1000	CIF	Off	24
11	1000	CIF	Off	24
12	1000	CIF	Off	24
13	1000	CIF	Off	24
14	1000	CIF	Off	24
15	1000	CIF	Off	24
16	1000	CIF	Off	24

VIDEO MODE: MODEL NO.:

HDD CAPACITY (GB): DAY / HOUR:

This figure shows that it is changed to 500.

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	Off	24
2	1000	CIF	Off	24
3	1000	CIF	Off	24
4	500	CIF	Off	24
5	1000	CIF	Off	24
6	1000	CIF	Off	24
7	1000	CIF	Off	24
8	1000	CIF	Off	24
9	1000	CIF	Off	24
10	1000	CIF	Off	24
11	1000	CIF	Off	24
12	1000	CIF	Off	24
13	1000	CIF	Off	24
14	1000	CIF	Off	24
15	1000	CIF	Off	24
16	1000	CIF	Off	24

VIDEO MODE

MODEL NO.

HDD CAPACITY (GB)

DAY / HOUR

Calculate

Reset

Close

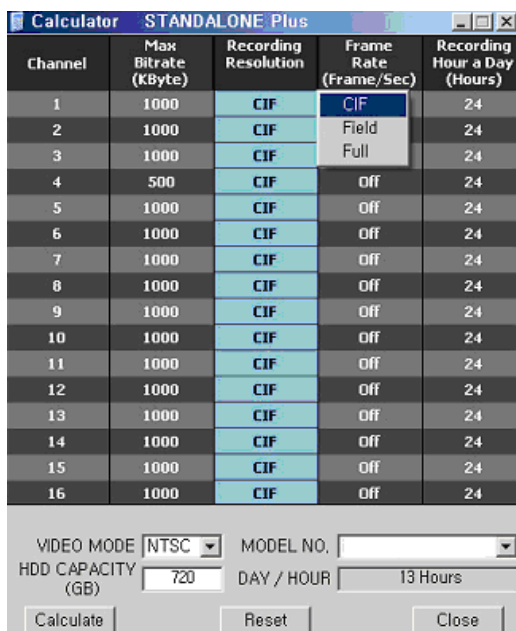
(3) Recording Resolution

Controls the resolution of the recording images

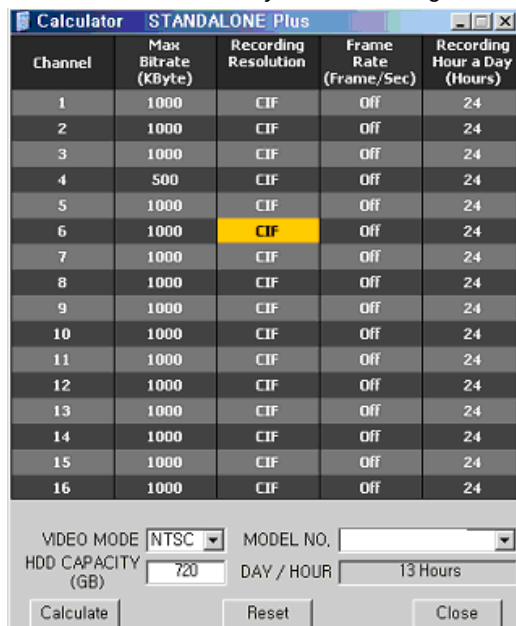
NTSC type : CIF – 352*240 / Field – 704*240 / Full – 704*480

PAL type : CIF – 352*288 / Field – 704*288 / Full – 704*576

To change the resolution of all channels with an equal value, click the Recording Resolution in the title bar.



You can modify the resolution of a channel. If you click it, the color is changed to the orange color. Select an item in the context menu by double-clicking it.



Calculator STANDALONE Plus

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	Off	24
2	1000	CIF	Off	24
3	1000	CIF	Off	24
4	500	CIF	Off	24
5	1000	CIF	Off	24
6	1000	CIF	CIF	24
7	1000	CIF	Field	24
8	1000	CIF	Full	24
9	1000	CIF	Off	24
10	1000	CIF	Off	24
11	1000	CIF	Off	24
12	1000	CIF	Off	24
13	1000	CIF	Off	24
14	1000	CIF	Off	24
15	1000	CIF	Off	24
16	1000	CIF	Off	24

VIDEO MODE: MODEL NO.:

HDD CAPACITY (GB): DAY / HOUR:

(4) Frame Rate (Frame/Sec)

Enter the number of frames per second of a recoding image.

To change all channels with a same frame rate, click the Frame Rate (Frame/Sec) in the title bar.

Calculator STANDALONE Plus

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	Off	Off
2	1000	CIF	Off	1
3	1000	CIF	Off	2
4	500	CIF	Off	3
5	1000	CIF	Off	4
6	1000	CIF	Off	5
7	1000	CIF	Off	6
8	1000	CIF	Off	8
9	1000	CIF	Off	10
10	1000	CIF	Off	15
11	1000	CIF	Off	30
12	1000	CIF	Off	24
13	1000	CIF	Off	24
14	1000	CIF	Off	24
15	1000	CIF	Off	24
16	1000	CIF	Off	24

VIDEO MODE: MODEL NO.:

HDD CAPACITY (GB): DAY / HOUR:

You can modify the frame rate of a channel. If you click it, the color is changed to the orange color. Select one in the context menu by double-clicking it.

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	15	24
2	1000	CIF	15	24
3	1000	CIF	15	24
4	500	CIF	15	24
5	1000	CIF	15	24
6	1000	Field	30	24
7	1000	CIF	15	24
8	1000	CIF	15	24
9	1000	CIF	30	24
10	1000	CIF	15	24
11	1000	CIF	15	24
12	1000	CIF	15	24
13	1000	CIF	15	24
14	1000	CIF	15	24
15	1000	CIF	15	24
16	1000	CIF	15	24

VIDEO MODE: NTSC MODEL NO.: iMDVRS - 1648
HDD CAPACITY (GB): 720 DAY / HOUR: 13 Hours

Calculate Reset Close

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	15	24
2	1000	CIF	15	24
3	1000	CIF	15	24
4	500	CIF	15	24
5	1000	CIF	15	24
6	1000	Field	30	24
7	1000	CIF	15	24
8	1000	CIF	15	24
9	1000	CIF	30	Off
10	1000	CIF	15	1
11	1000	CIF	15	2
12	1000	CIF	15	3
13	1000	CIF	15	4
14	1000	CIF	15	5
15	1000	CIF	15	6
16	1000	CIF	15	8
				10
				15
				30

VIDEO MODE: NTSC MODEL NO.: iMDVRS - 30
HDD CAPACITY (GB): 720 DAY / HOUR: 13 Hours

Calculate Reset Close

(5) Recording Hour a Day (Hours)

Specifies recording hours in a day.

To change all channels with a same value, click the Recording Hour a Day (Hours) in the title bar.

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	16	24
2	1000	CIF	15	24
3	1000	CIF	15	24
4	500	CIF	15	24
5	1000	CIF	15	24
6	1000	Field	30	24
7	1000	CIF	15	24
8	1000	CIF	15	24
9	1000	CIF	30	24
10	1000	CIF	15	24
11	1000	CIF	15	24
12	1000	CIF	15	24
13	1000	CIF	15	24
14	1000	CIF	15	24
15	1000	CIF	15	24
16	1000	CIF	15	24

VIDEO MODE: NTSC MODEL NO.: IMDVRS - 1648

HDD CAPACITY (GB): 720 DAY / HOUR: 13 Hours

Calculate Reset Close

You can modify the recording hours of a channel. If you click it, the color is changed to the orange color. Select one in the context menu by double-clicking it.

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	15	16
2	1000	CIF	15	16
3	1000	CIF	15	16
4	500	CIF	15	16
5	1000	CIF	15	16
6	1000	Field	30	16
7	1000	CIF	15	16
8	1000	CIF	15	16
9	1000	CIF	30	16
10	1000	CIF	15	16
11	1000	CIF	15	16
12	1000	CIF	15	16
13	1000	CIF	15	16
14	1000	CIF	15	16
15	1000	CIF	15	16
16	1000	CIF	15	16

VIDEO MODE: NTSC MODEL NO.: IMDVRS - 1648

HDD CAPACITY (GB): 720 DAY / HOUR: 13 Hours

Calculate Reset Close

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	15	16
2	1000	CIF	15	16
3	1000	CIF	15	16
4	500	CIF	15	16
5	1000	CIF	15	16
6	1000	Field	30	16
7	1000	CIF	15	24
8	1000	CIF	15	16
9	1000	CIF	30	16
10	1000	CIF	15	16
11	1000	CIF	15	16
12	1000	CIF	15	16
13	1000	CIF	15	16
14	1000	CIF	15	16
15	1000	CIF	15	16
16	1000	CIF	15	16

VIDEO MODE: MODEL NO.:
 HDD CAPACITY (GB): DAY / HOUR:

(6) To initialize the value, press the Reset button.

(7) If you press the Calculate button after all input items are selected, the calculated output value is displayed in the Date/Time.

Channel	Max Bitrate (KByte)	Recording Resolution	Frame Rate (Frame/Sec)	Recording Hour a Day (Hours)
1	1000	CIF	15	16
2	1000	CIF	15	16
3	1000	CIF	15	16
4	500	CIF	15	16
5	1000	CIF	15	16
6	1000	Field	30	16
7	1000	CIF	15	24
8	1000	CIF	15	16
9	1000	CIF	30	16
10	1000	CIF	15	16
11	1000	CIF	15	16
12	1000	CIF	15	16
13	1000	CIF	15	16
14	1000	CIF	15	16
15	1000	CIF	15	16
16	1000	CIF	15	16

VIDEO MODE: MODEL NO.:
 HDD CAPACITY (GB): DAY / HOUR:

5. Flash Down

5-1. Overview

(1) This is the DVR system update program, and uses the RS232C cable and cross cable.

5-2. Running and using

1) Running

(1) Click the Start > Programs > DVR Remote Access Program > POLYVISION-CMS> FlashDown menu

(2) Local Upgrade

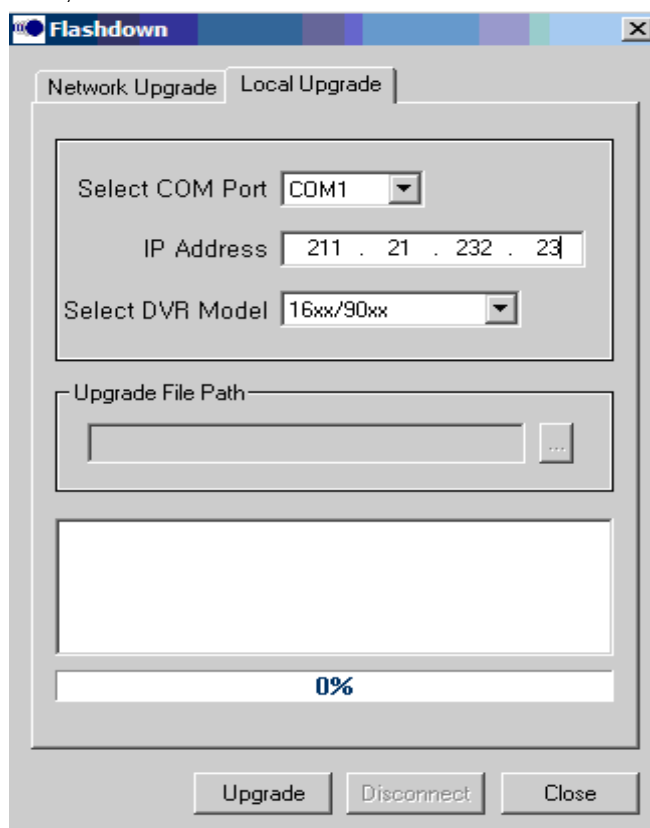
In this type, the user performs the upgrade task by connecting the RS232C cable to his/her PC.

Prerequisites

- ① The RS232C cable connection should be established.
- ② The network setup should be configured.

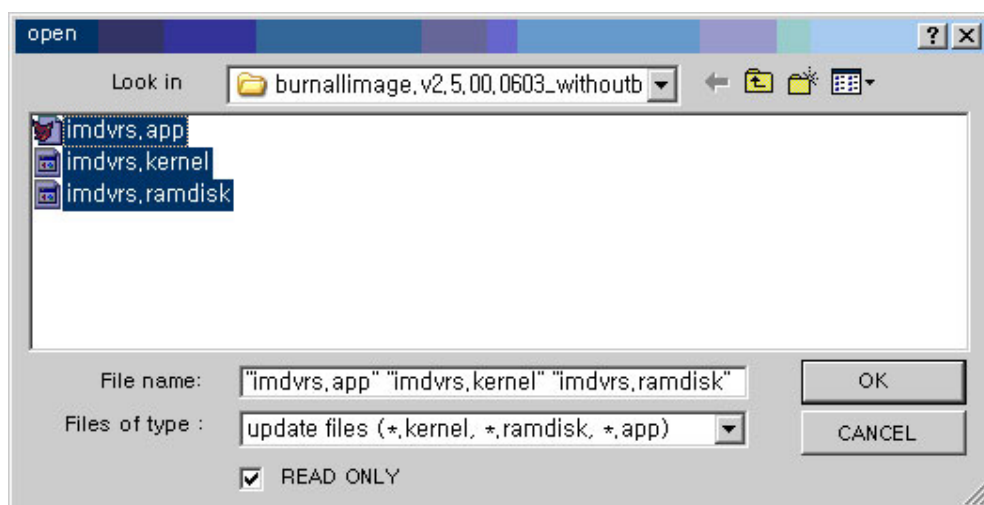
In the Select COM Port, specify the port that the RS232C cable is connected to.

In the PC IP Address, enter the IP of the user PC.

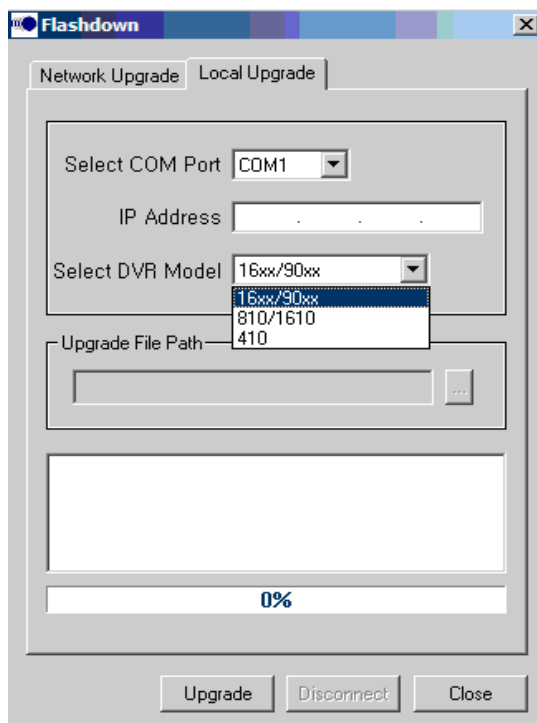


To add upgrade files, select the Partupdate.

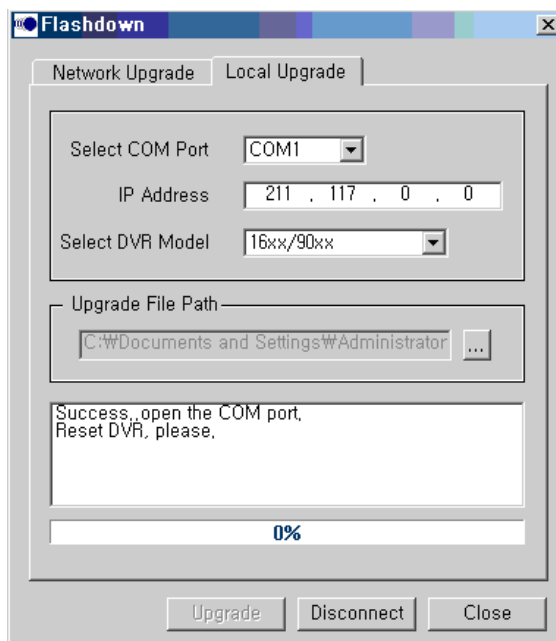
Click the [Open] button by selecting all of three files that are shown on the screen.



Once files that will be upgraded, set the model of the corresponding DVR form the Select DVR Model.

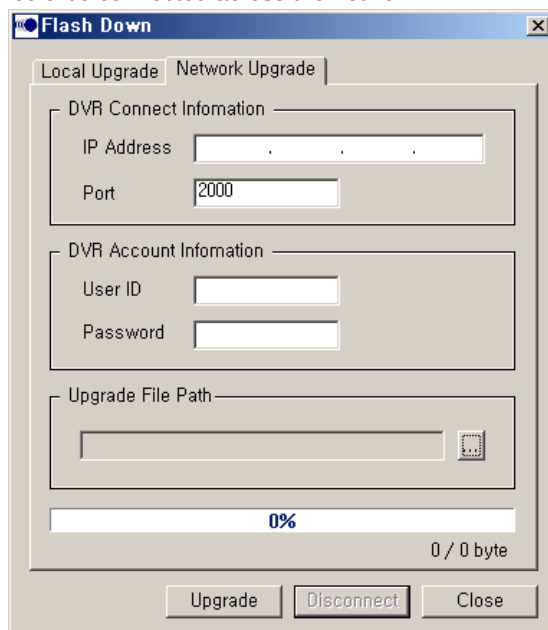


If the following message is displayed after you click the Upgrade, reboot the DVR system. Then, the upgrade task continues to proceed.



(3) Network Upgrade

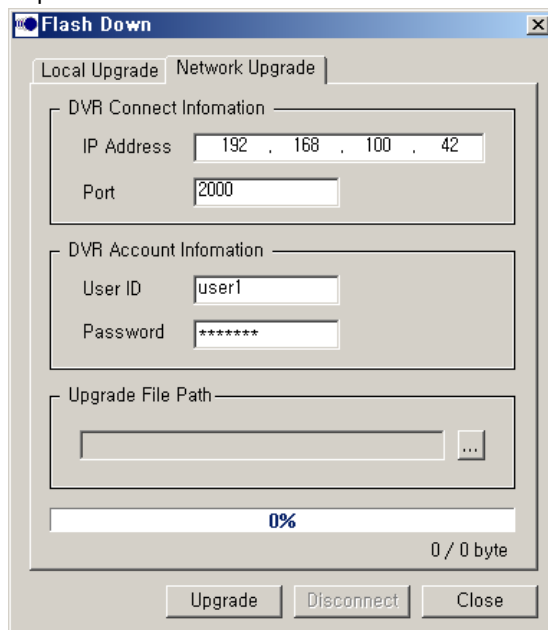
DVR and user PC should be connected across the network.



The image shows a 'Flash Down' dialog box with the 'Network Upgrade' tab selected. It contains three sections: 'DVR Connect Information' with fields for 'IP Address' and 'Port' (set to 2000); 'DVR Account Information' with fields for 'User ID' and 'Password'; and 'Upgrade File Path' with a text box and a browse button. A progress bar at the bottom shows 0% completion, and the status is '0 / 0 byte'. Buttons for 'Upgrade', 'Disconnect', and 'Close' are at the bottom.

Fill out each item.

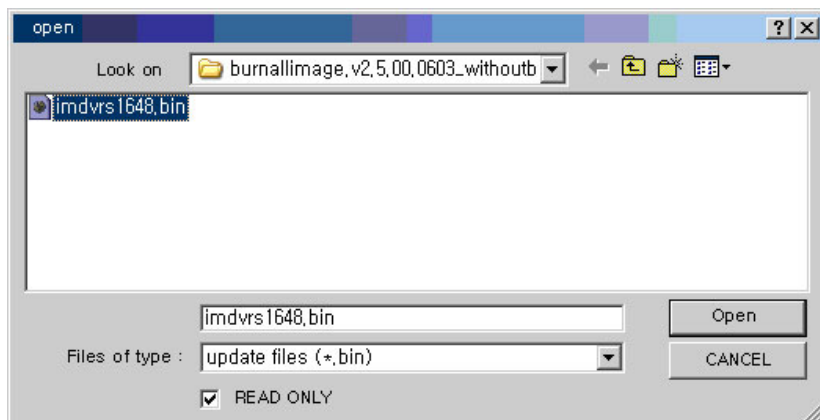
- ① IP Address : IP of the DVR system
- ② Port : 2000 (basic)
- ③ User name : user ID
- ④ Password : User password



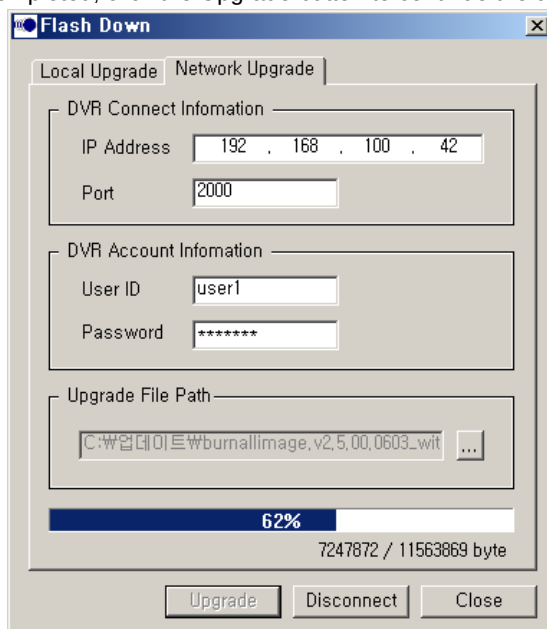
The image shows the same 'Flash Down' dialog box with the 'Network Upgrade' tab selected, but now filled out with example data. The 'IP Address' field contains '192 . 168 . 100 . 42', the 'Port' field contains '2000', the 'User ID' field contains 'user1', and the 'Password' field contains '*****'. The 'Upgrade File Path' field is empty. The progress bar still shows 0% completion, and the status is '0 / 0 byte'. Buttons for 'Upgrade', 'Disconnect', and 'Close' are at the bottom.

For the Upgrade File Path, select the file you want to upgrade.

- ⑤ The file name is *.bin.



Once the setup is completed, click the Upgrade button to continue the upgrade task.



If the upgrade task is completed, a notification message is displayed. Then, press the [OK] button to finish it at the user PC side.



DVR system continues to upgrade files. And then, it reboots by itself.

A/P/P/E/N/D/I/X

- Table of compatibility between codes for the mass production DVR and CMS versions

CMS Version DVR mass production codes	V1.1.2.1 7577	V1.1.2.1 V1.1.2.17704	V1.1.2.1 7850	V1.2.0.0 V1.2.0.0533	V1.3.0.0 V1.3.0.0105	V1.4.0.0 005 or higher
Da - V1.6 (2729,2837,2838)	O	X	X	X	X	X
Db - V1.6 (3420)	X	O	X	X	X	X
Dc - V2.0 (466,468)	X	X	O	X	X	X
Dd - V2.5 (612)	X	X	X	O	X	X
Dd4 - V3.0 (266)	X	X	X	O	X	X
De - V3.5 or higher version	X	X	X	X	O	O
De1-V3.6 or higher version	X	X	X	X	X	O

- Table of compatibility between codes for the mass production DVR and CMS versions

CMS Version DVR mass production codes	V1.2.0.0 V1.2.0.0533	V1.3.0.0 V1.3.0.0105	V1.4.0.0 005 or higher
DC - V2.3 (871)	O	X	X
DE - V3.5 or higher version	X	O	O
De1-V3.6 or higher version	X	X	O

■ Cautions

Although the CMS PROGRAM- V1.1.2.1(7850), for both DC and DD, provides live and playback functions, the CMS PROGRAM- V1.2.0.0(533) is not compatible with the DC Version.