

DVR User's Guide

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1. Introduction

1.1. Overview

Your new DVR is a state-of-the-art Digital Video Recording System. This system completely PC based system and can be operated at Windows systems. (Windows XP, Windows 2000, Windows 2003 and Windows Vista) It has real time or high speed monitoring features, digital recording and play back features, and remote access features which make it one of the most versatile systems on the market.

1.2. Main Features

- **Simultaneous Recording and Playback**

You can record up to 32 channels of video with time lapse and event based recording modes. The system also can record multiple video channels with simultaneous alarm conditions and motion detections. It also supports audio recording and text insertion for POS or access control functions.

- **Renovated Database**

Our renovated database system can support multiple cameras and remote access efficiently.

- **DB (Database) Recovery**

The system was designed to recover recorded data automatically in the event that an abnormal operation or system shut down (a power loss, for example).

- **Remote Access**

You can connect to multiple sites, and each site can be connected with multiple users at the same time.

- **User-Friendly Operation**

Settings and menus are designed for non-expert users, so anybody can navigate the whole system without spending days learning how to operate it.

- **Multiple Picture Qualities and Resolutions**

Configurations are so flexible, you can set each camera individually for resolution (up to 640 x 480), compression, frame rate and recording events.

- **Multi-Zone Motion Detection**

The systems support whole screen motion detection, or user defined area motion detection, with several detection areas for each camera.

- **Scheduled Video Recording**

Operate with 5 different recording modes, including alarm recording, scheduled recording, motion recording and combinations of each. Each camera and mode can be defined hourly, daily, or weekly.

- **Live View Shutdown**

Shut down the live screen viewing screen to access the Windows Desktop, while all the cameras continue to record.

- **Networking Support**

You can remotely connect to DVR through multiple network configurations, including LAN/WAN/ISDN or PSTN. You can also manually configure the ports of each DVR, which allows you to utilize a single high-speed connection to address multiple DVRs from a remote site. Once connected, navigate and operate all the system functions as if you were at the main system-the interface is the same remotely as it is at the server.

- **Pan/Tilt/Zoom**

Control multiple PTZ camera formats, locally or from a remote location.

- **Watchdog**

In the unlikely event system freezes, the system's watchdog feature will automatically reboot the system.

- **Audio**

Monitor live audio, recording, playback and backup audio on one or multiple cameras.

- **Multi-Board**

If you want to have a 8 cameras inputs DVR system from 4 cameras input system (like VCB-4 & VCB-4Pro), you can get a 8ch DVR system after installation of one more VCB-4 or VCB-4 PRO capture card in the existing 4ch DVR system. [\(But our DVR software doesn't support VCB2400 board & VCB2400 board as multi board\)](#)

- **DVR Server - RMS**

You can use both the RMS (Remote Monitoring Software) and DVR Server on the same PC at once.

1.3. Warning

- CE (Communaut' European)

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

- FCC (Federal Communications Commission)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at its own expense.

2. Start System

2.1. Before Starting System

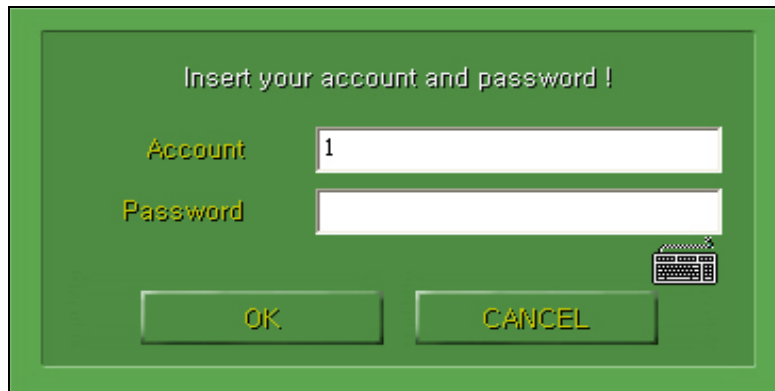
Before starting, the file system must be setup. Only after the file system has been configured can the main system start. If the file system has not been configured, please follow the instructions below.

2.2. File System Setup

Start the "File Manager" program by going into Windows: Start→Programs→DVR→Main →File Manager

2.2.1. Logon to File System

When you start the file manager (fsutil.exe) program, the program will ask for your "Account" and "Password." The system's Default Account is "1", and the Password is left blank. After entering the account, click "OK" button to start the File Utility System.

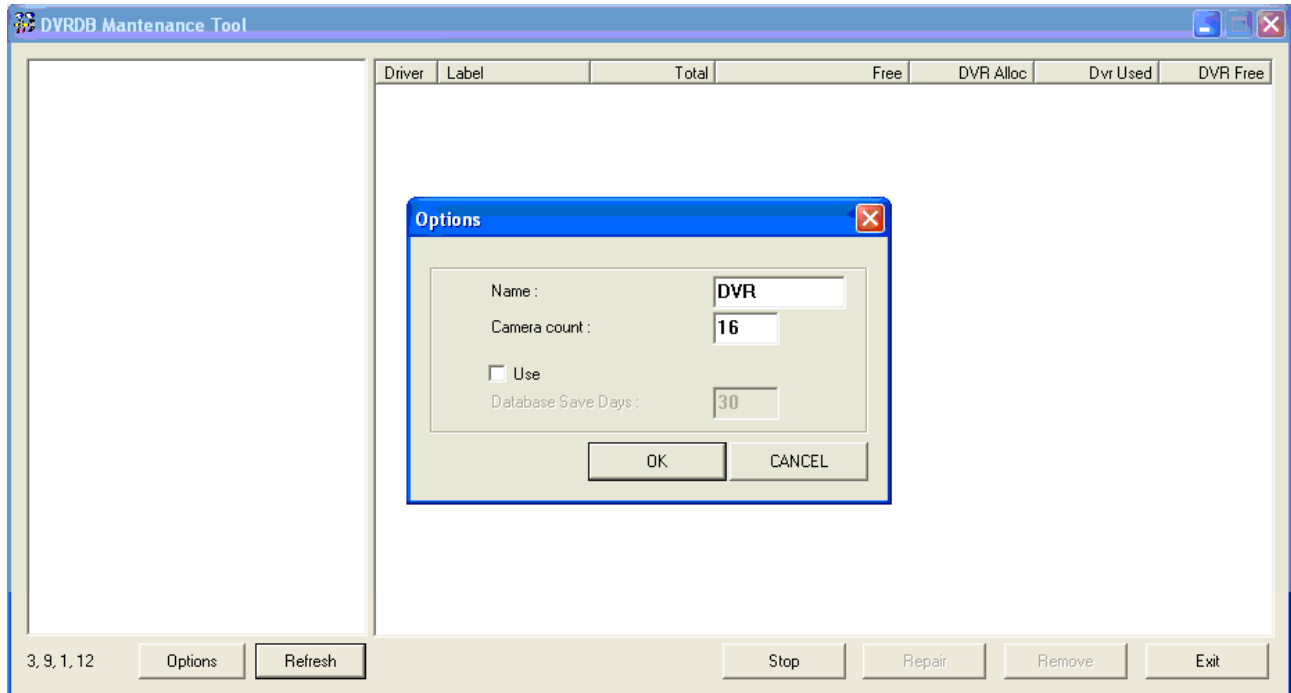


Note: Instead of using the keyboard, you can logon using only with mouse. Simply click the keyboard button (which is right below the password field), and the system will show the keyboard. A keyboard will come up as shown below; simply use click on the keys the same as typing on the keyboard. Either method will work.



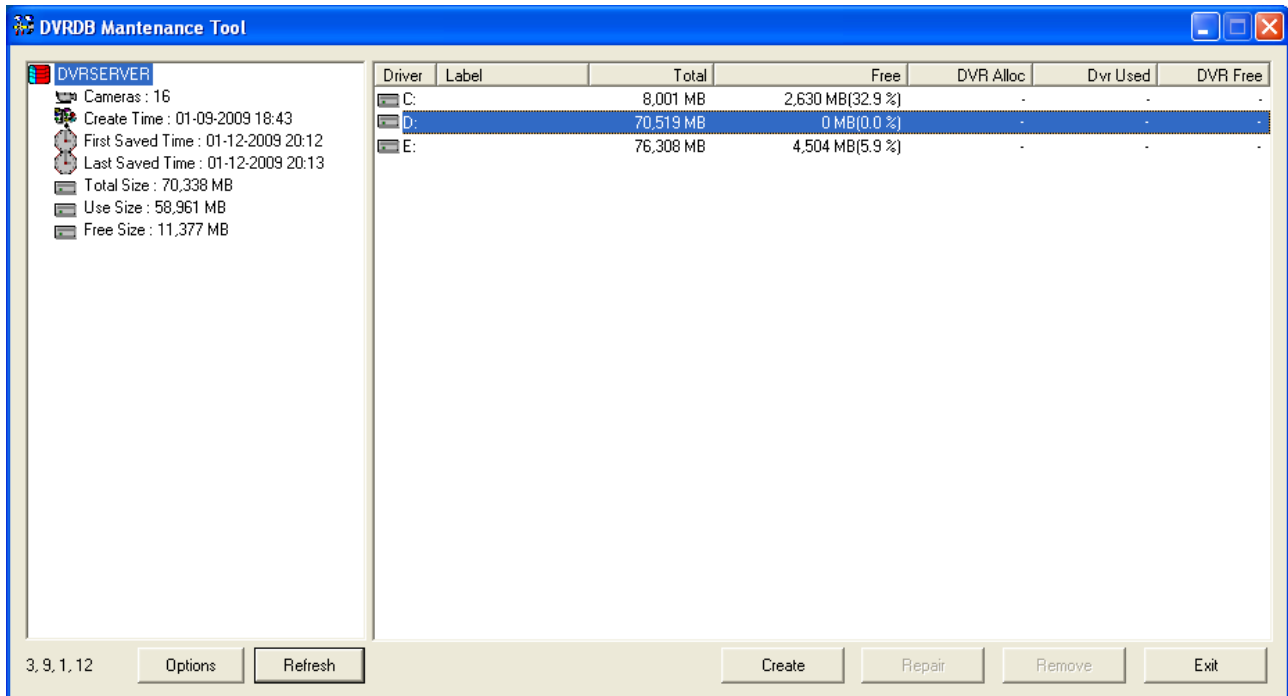
2.2.2. Make Database

After logging on to the file system, the first window screen will appear as follows:

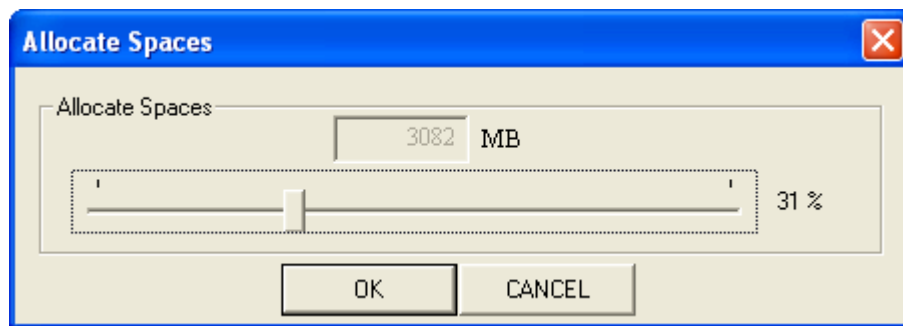


- Name: Enter the name of Database. In most cases, the default name can be used.
- Camera count: Specify the maximum number of cameras that will be used for this DVR system.
Note: It is okay to have more cameras than you will actually be connecting. If you choose to add cameras later, you will be limited to the number of cameras setup here unless you redo the database.

1) Click "Create" button to add baskets.

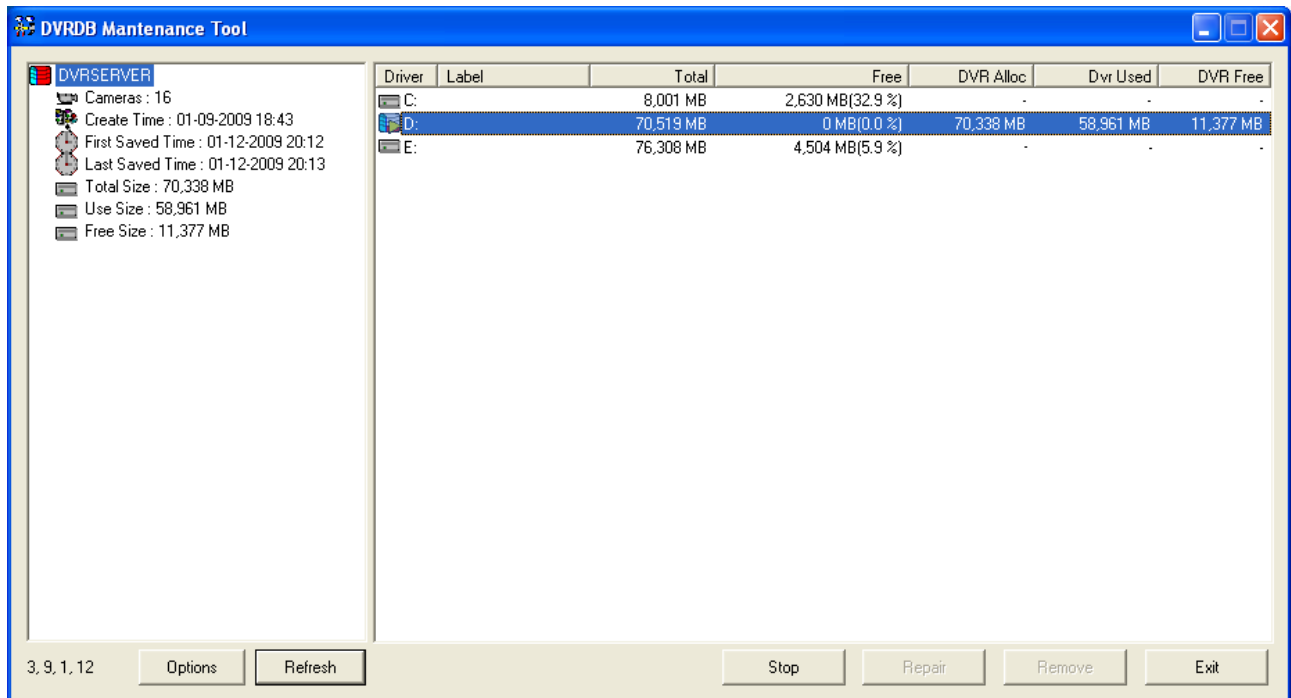


- Select hard disk and click Create or Double click the hard disk drive: If you want to use multiple hard drives on the system, configure each drive individually. It is a good idea to leave the operating system partition out of the video database.













- When you select a hard disk drive (double click), the File System Utility will ask for the amount of space you wish to specify on the drive.
- You can select from 0% to 100% (Note: 100% still leaves a little room for the drive to operate.)
- After selecting the amount of space, Click "OK" button.

When the File System finishes the Database setup, the following screen will appear.



- This example shows Drive C: after 45.7% of the drive was chosen.
- The name of Database in this example is “DVRSERVER”.
- This example has 16 cameras.
- In this example, the total size of Database is 70,338 MB.
- Indicate of DB state is

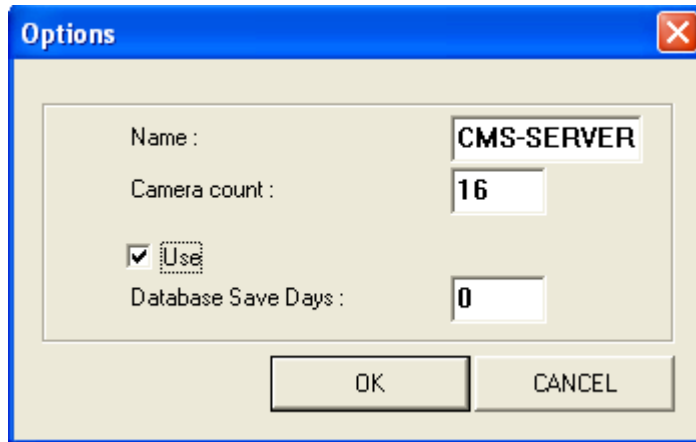
-  : hard disk which not exist db
-  : empty disk
-  : current use disk
-  : full saved disk
-  : full saved and current use disk
-  : physical error disk. Not writable disk.
-  : logical error disk. Not writable disk.
-  : full disk. Not writable disk.
-  : stopped disk
-  : internal working disk

- 2) Click “Start” button to use save and retrieve data
- 3) Click “Stop” button to disconnect disk from Database
- 4) Click “Remove” button to delete database. If you are removing or replacing a drive.



If you click "OK", all the baskets will be deleted in disks

5) Click "Options" button to set the database save option.



- You can set the Database save days period using options button.
- If you set the Database save days period, the expired data will be removed from the database automatically.

2.3. Start System

2.3.1. Start Application

From the Windows Desktop, double click the DVR Viewer icon, or run the DVRMain.exe program in C:\Program Files\DVR\Main folder. If you want to use NVR, run IPCameraSetting.exe in advance (Refer to < 13.NVR setting> section first).

2.3.2. Monitoring the Camera Screens

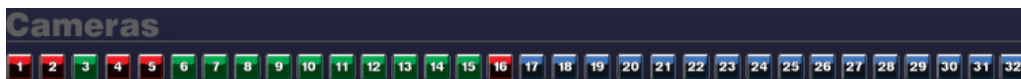
1) Default Screen

: When the DVR program starts, the video screen will be displayed as follows.

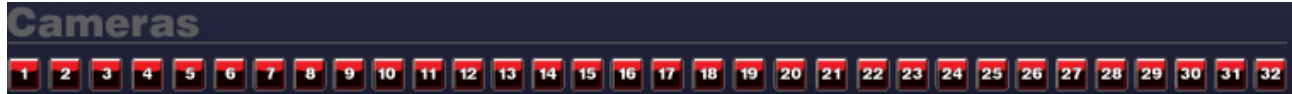


2) Camera Indication Boxes

The Camera Indication Boxes are near the bottom of the main screen. You can see the status of each camera that is installed as follows:



- The Green box means the system is viewing the current (real-time) image.
- The Red box means that image from the specified camera is recording.
- The White box means that no camera installed.
- If the system is configured for more than 16 cameras, the camera boxes will be displayed as follows.



3) Action Buttons

There are four action buttons.





- **Setup**: This is the System Setting Window used to access and configure the system settings.
- **Search**: Click here to search previously recorded data.
- **Color Control**: Click here for the Color Setting Window. You can adjust the color display of each camera.
- **Backup**: Click here to display the Backup program.
- **LogViewer**: Click here to display the Log Viewer Program.

4) Screen Mode Icons

: There are 13 different display type configurations for the live screen.

- Single-Screen Mode: Displays the captured image from one camera. User can select a camera from the Camera Box.
- Multi-Screen Mode: Displays 4 captured image from 4 different cameras.
- Displays 6 captured image from 6 different cameras.
- Displays 9 captured image from 9 different cameras.
- Displays 10 captured image from 10 different cameras.
- Displays 13 captured image from 13 different cameras.
- Displays 16 captured image from 16 different cameras.
- Displays 25 captured image from 25 different cameras.
- Displays 32 captured image from 32 different cameras.
- Displays 64 captured image from 64 different cameras.
- Full-Screen Mode: Views the current screen in full screen mode, without the GUI showing.
- Switch-Screen: Each click of this icon will display the image of the next camera or next set of cameras. I.e., if you are viewing cameras 1-16, clicking here will display cameras 17-32.
- Auto-Rotation Mode: In this mode, screen view will rotate automatically based on CCTV interval setting (see page 21).
- Minimize Screen Mode: Minimize the Window.
- When the "Use instant Recording" function on the system menu is checked, clicking this button will cause all the cameras to be recorded continuously and the highest frame rate.
- This returns the instant recording function back to the system's standard recording.
- Relay Control: Controls the 4 available relay functions.



- : Click here to deactivate any of the DVR controls. A password is required.
- : Click here to activate the controls again. A password is required.

5) **System Status Window:**

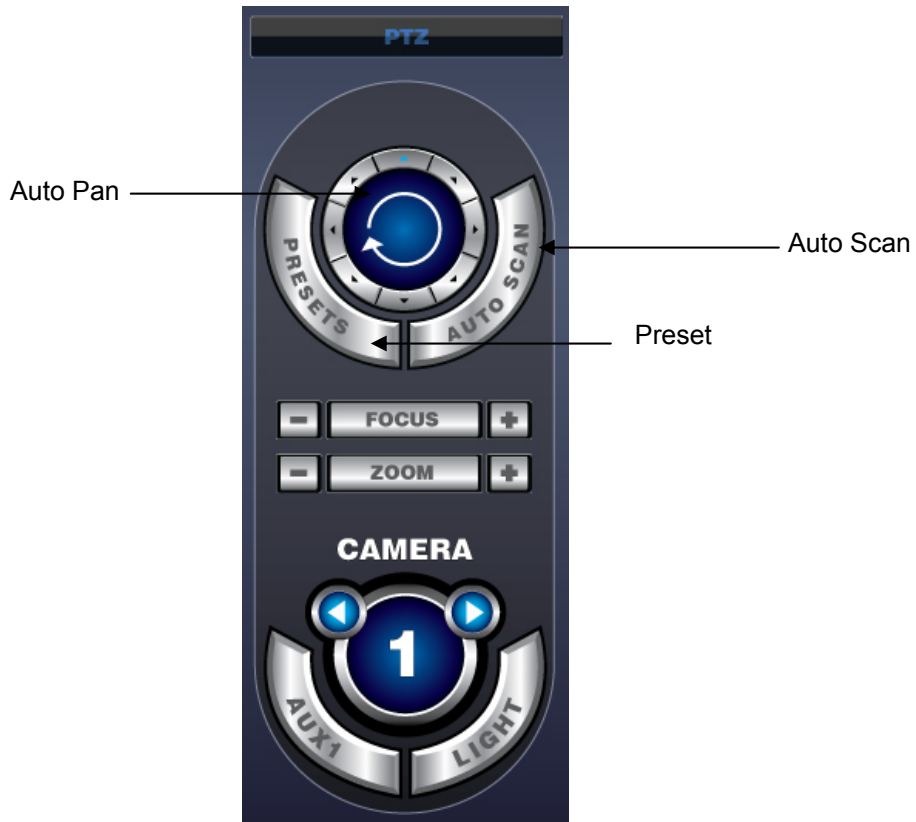
The System Status Window will show the real time status and events occurring.



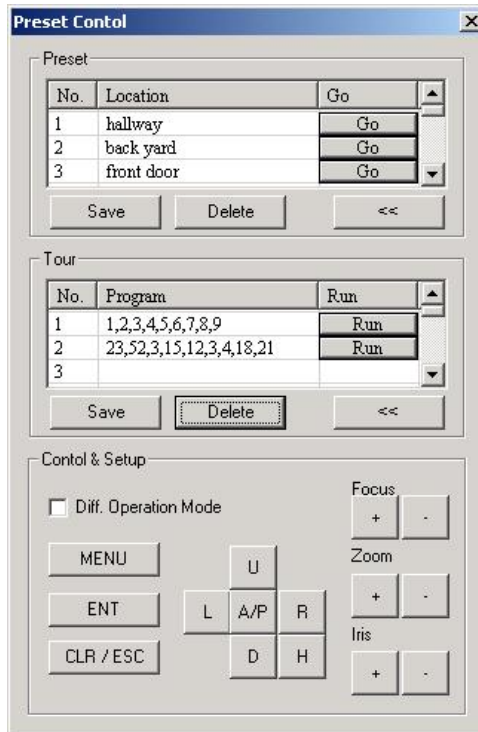
- Events: Motion Detected (including camera number and time)
- Logs: System Setting Information
- ALARM Icon: If an input signal from the external sensors is occurring, this icon flickers.
- NETWORK Icon: This icon flickers if someone is remotely connected to the system. This can be turned off in the system settings.

6) **Pan/Tilt Control Box:**

If Pan/Tilt camera is installed, you can control the Focus, Zoom, Light, and Camera directions through this control box.



- Auto Pan: Based on the autopan features of whichever PTZ camera is installed.
- Auto Scan: Auto scans through the first **9 presets (1→2→3→5→6→7→8→9→1→2→...)**
- Preset: If you click here, the following dialogue box will appear.



1. Preset

- No.: Number of the Preset position (1~64).
- Location: Description of the location for the preset position.
- Go: Click the "Go" button, and the camera will move to that preset position.
- Save: To save the current position of the PTZ in that preset location.
- Delete: Deletes the selected preset position.

1-1. How to setup a preset

First, move the PTZ camera to the desired position and then please select the number of the preset position and enter the location. Click "Save" to set the preset.

2. Tour (This function only operates on PTZ devices that accommodate the feature)

- No.: Number of the Touring (1~64).
- Program: Specify the order of the presets used in the Tour.
- Run: Click the "Run" button, to initiate the preprogrammed tour. The camera will stay on each location for 5 seconds before moving to the next position.
- Save: Saves the Tour number after you have setup the Tour.
- Delete: Deletes the selected Tour.

2-1 How to setup a Tour

- 1). Click cell you want to setup and type in the preset position numbers in the order you want. (e.g. 23, 44, 12, 25, 16, 5, 38: 23→44→12→25→16→5→38→23→44→12...)
- 2). Click "Save".

2-2. Initiating the Tour

Simply click the "Run" button and the PTZ camera will start "touring". Click again to stop.

3. Control & Setup

- Diff. Operation Mode: Check this box and the U, D, L, R keys will be changed from "click and move" to "cursor move". (In case of CyberScan1, you must click the box to insert 'START(PTZ)' value and 'END(PTZ)' value in the setting of 'AUTO SCAN SETUP'. You also need to click the box when you input title for the position of the Auto scan (Touring). Please refer to the PTZ manual for the details.
- MENU: Calls the settings menu of PTZ camera.
- ENT: Enters values chosen while you are in menu mode.
- CLR / ESC: Cancels options currently chosen in menu mode.
- U: Move up camera. (or, move up cursor.)
- D: Move down camera. (or move down cursor.)
- L: Move left camera. (or , move left cursor.)
- R: Move right camera. (or, move right cursor.)
- H: Goes to home position.
- AP: Start/Stop auto pan.
- Focus +/-: Focus near/far.
- Zoom +/-: Zoom in/out.
- Iris +/-: Iris open/close.

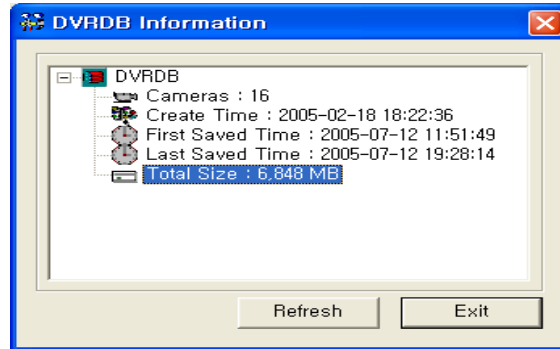
7) Freeform Display on Live Viewer:

You can rearrange the live camera screen by dragging and dropping cameras into whatever position you like. To add cameras outside of the range of the screen (i.e., camera 5 in a four camera view), go to the 16 position screen and drag the camera to the position you want, then return to the smaller camera view.

Cameras Status
6.14.2007 18:00:05 PM

8) : Oldest Recorded Data

If you click this area, the following screen appears.



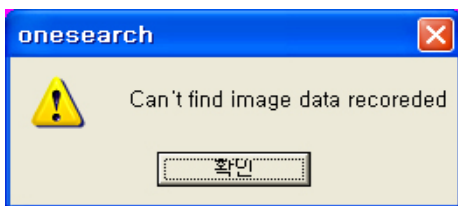
9) On DVR viewer main screen, if you want to make “jpg” snapshot or “AVI” file from the live display, you can enable these functions by right clicking on a specific camera.



- Stop Capture: This will stop capturing images on the recorder, but it is saving image on disk. (Live board does not support this function. Other overlay boards return to original status (capture) when a user clicks split mode)
- Save as Snapshot: Takes a snapshot from the live video of the specified camera into C:\\Programs Files\\DVR\\Main\\SavedImages\\01~64 folder
- Save as AVI: This will save an AVI file of current camera into C:\\Programs Files\\DVR\\Main\\ SavedImages \\01~64 folder. It will continue until it is unchecked.
- Print : Prints an image of current camera.(If a printer is installed)
- OneSearch: Brings up the “One Search” feature installed with the system. You can search and view live at the same time.

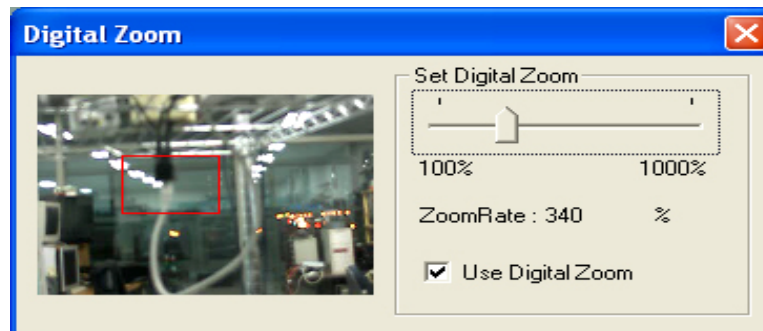


Exit: Exits the One Search screen



If there is no recorded data, you may see the image above.

- Open Pantilt: You can work rightly pantilt that you want to control by right clicking on a specific camera.
- Image Rendering: If you use Grandeye IP camera, you can control this function. This function allows fisheye image to be rendered as VCams(Virtual camera) or panorama views.(refer to 70p.)
- Digital Zoom: You can display zoomed image. To zoom in-out on an area of interest, move slider bar. And if you want to display zoomed image on viewer, check "Use Digital Zoom", otherwise uncheck this function. (This function is not supported in VCB-XXXXPro board.)



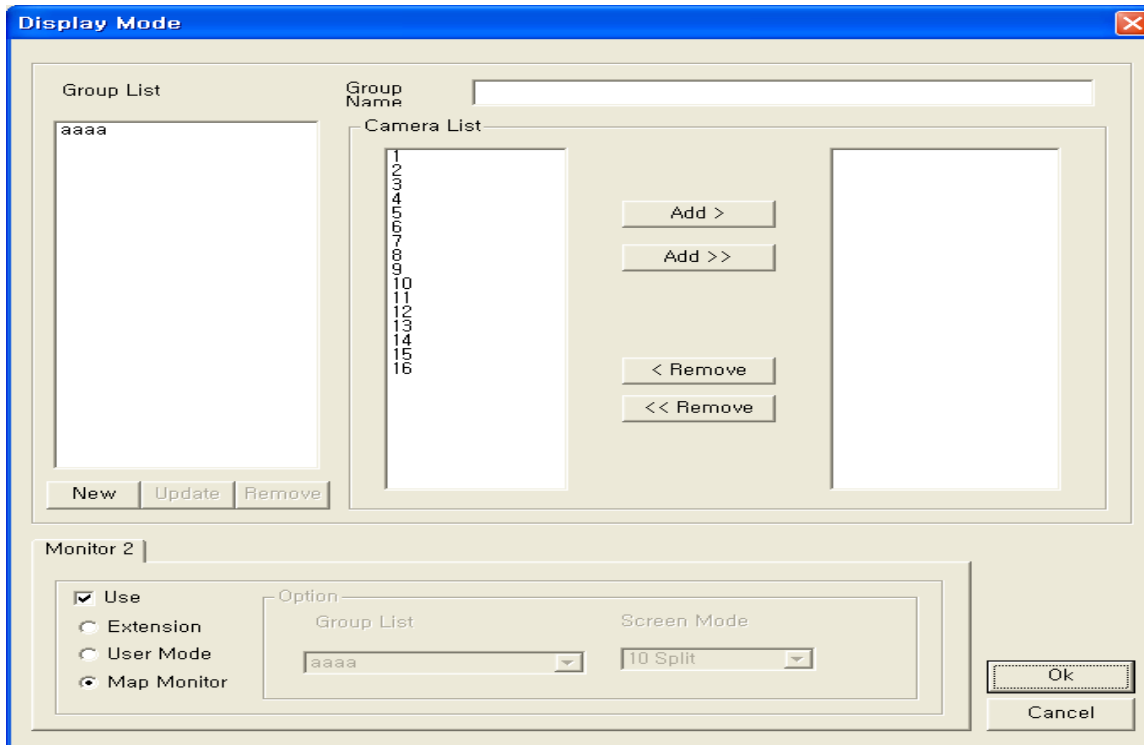
- Screen Mode: You can have multi monitor system as your needs

You can select three type of multi Monitor type

Extension : Sub monitor is a extension monitor of main monitor
 For example, you can see the main monitor 4 split, and sub monitor displays the next camera using 4 split.

User Mode : Using user mode monitor, sub monitor can group cameras as you want.

Map Monitor: Sub monitor display the Map window, and you can add/remove maps



- Group list: Show the registered Group list.
- New: Add new Group Viewer.
- Update: Update Group Viewer after editing.
- Remove: Remove a selected Group viewer.
- Group Name: User defined Group Name.
- Camera List: Select the cameras you want to see in the group.
- Add >: Add one camera you want to see in the group.
- Add >>: Add all cameras you want to see in the group
- <Remove: Remove one camera you want to remove from the group.
- <<Remove: Remove all cameras you want to remove from the group.
- Monitor2
- Use: If you wan to use multi monitor, select this button.
- Extension: Extends the main monitor view(i.e. main monitor views 1 through 4, ext views 5~8)
- User Mode: You can select specific video cameras you want to see and allows you to control split mode, and pan-tilt.
- Map Monitor: If you want to use Map monitor, select this button.

<User Mode Monitor>

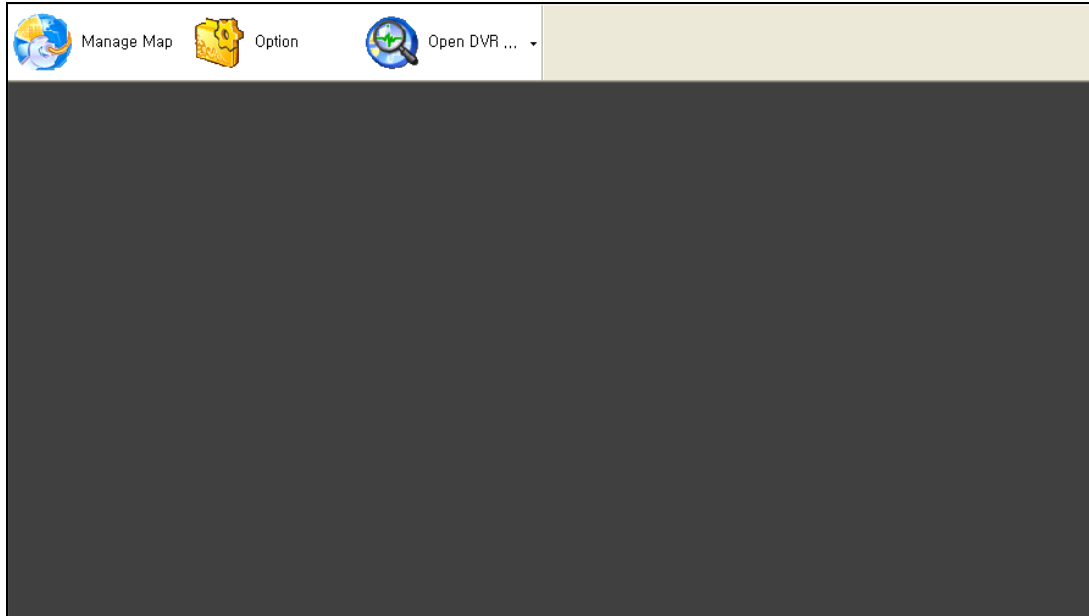


- You can control the split mode, rotation, auto switch, pan-tilt function.

<Map Monitor>

If you select Map monitor you can see the map display windows.

Map monitor provide menus to control the map windows.

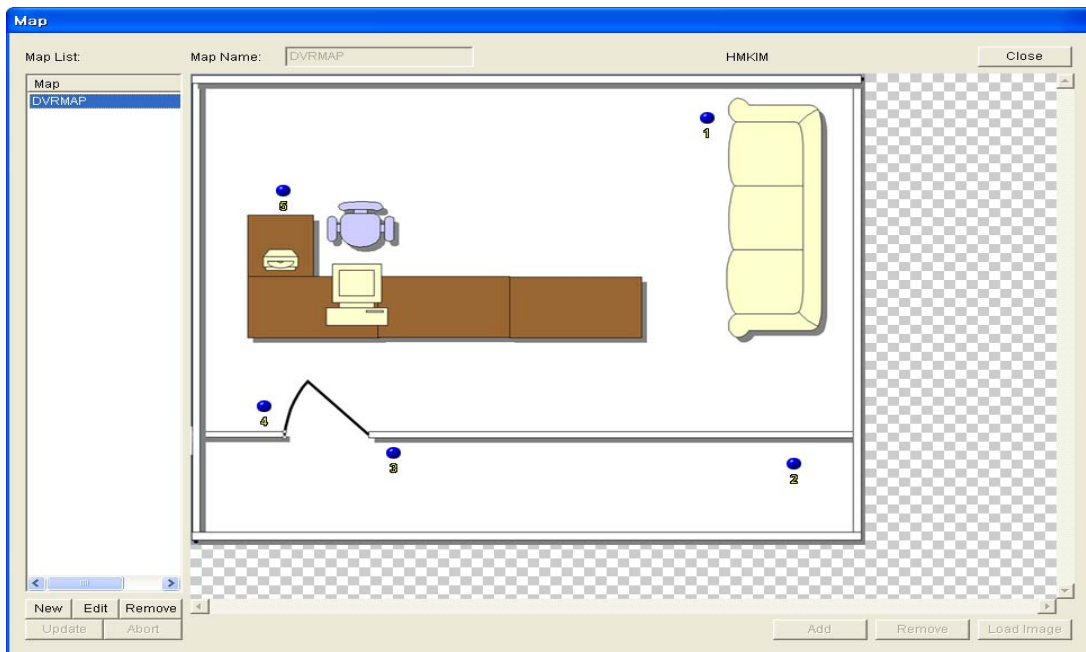


Manage Map : You can add/edit/remove the map using following dialog.

You can add multiple maps, and displays multiple maps.

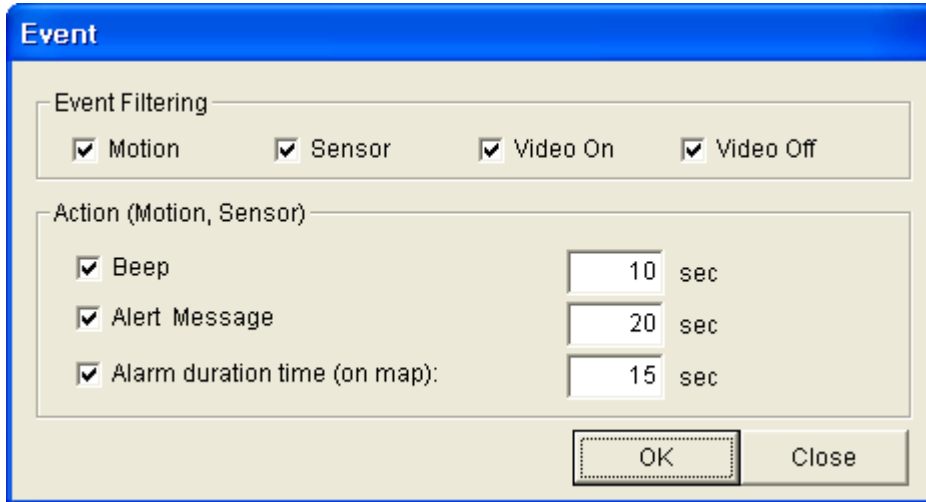
If you want add new map, click the New button. And then Click the Load Image button,

And last using Add button you can add the individual camera icons on the map.



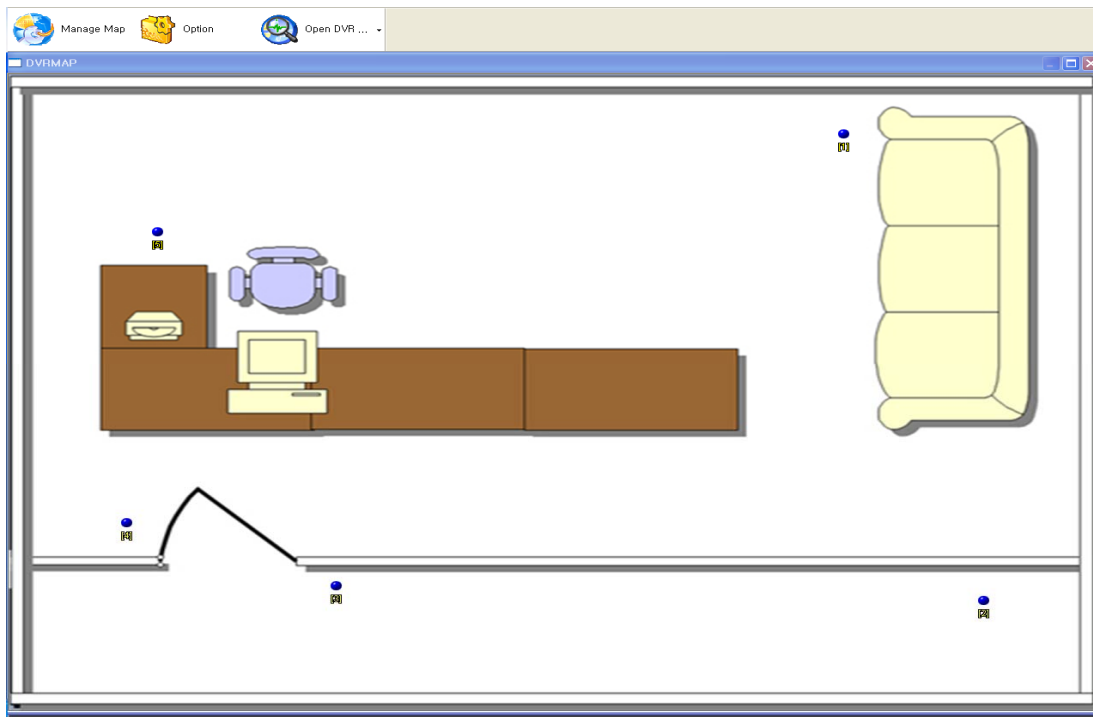
Option: Option dialog provide various options on the map display.

- Event Filtering: check the event which you want to see blinking icon on the map.
- Beep: When event come, Beep can be done during defined seconds.
- Alert Message: When event come, Alert Message dialog can be displayed during defined seconds.
- Alarm duration time: When event come, camera icon blinking during defined seconds.



Open DVR Map : Option dialog provide various options on the map display.

If you select the ▼ button of the Open DVR Map button, registered map list will be displayed using popup window, then select the map name which you want to open.



10) In the **32 channel view**, Camera 1 is the same as the middle image.



3. System Setting

3.1. Start System Setting

To start the Setting menu, click the SETTING button from the Action Buttons at the bottom of the live view screen.



1) Logon

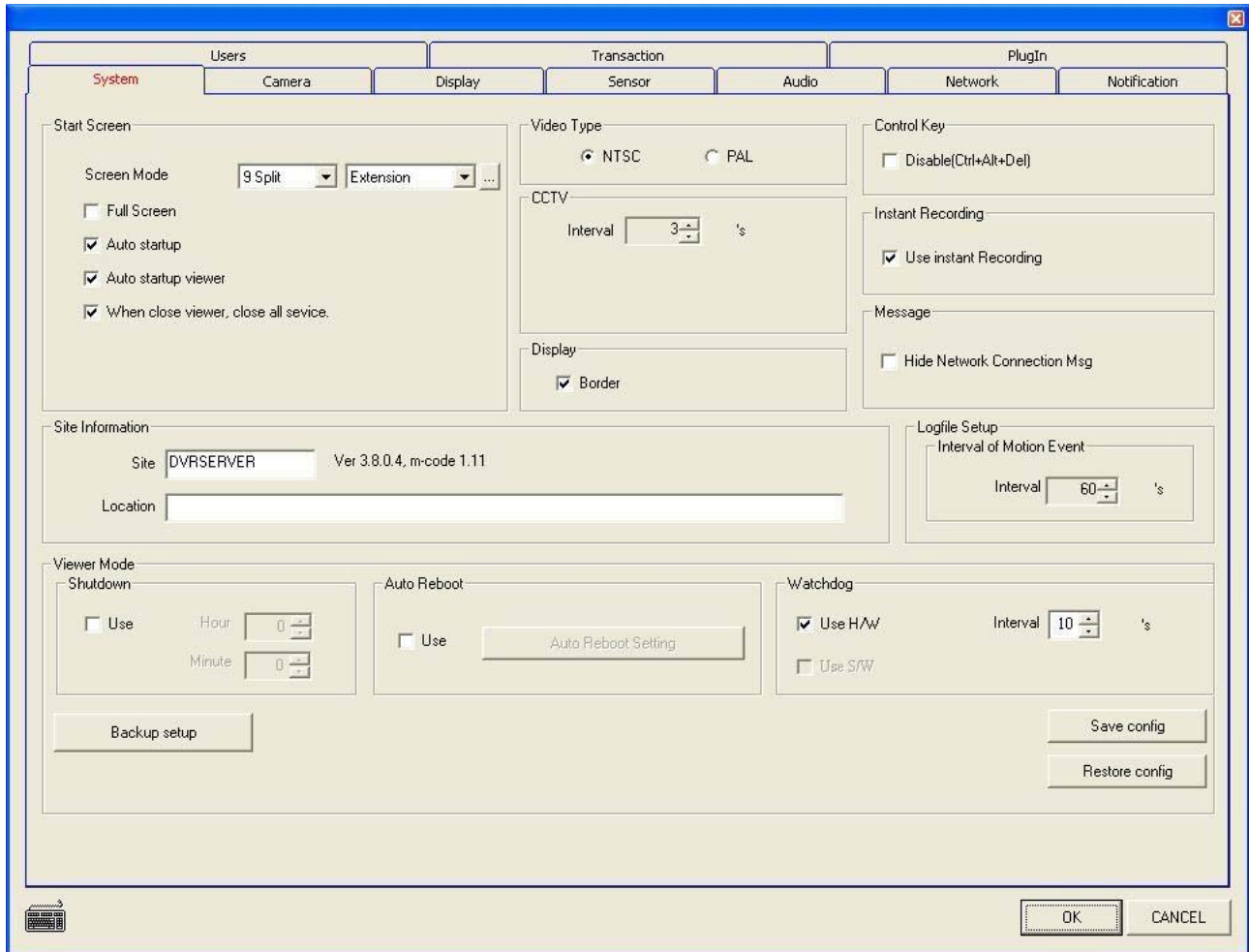
: To modify the System Configuration, you must have proper accessibility. Enter your LOGON ID and password. The system has Default Account ID of "1", and the password is blank. After entering Account ID and password, click "OK" button to start the Setting Menu.

A green dialog box titled "Insert your account and password !". It contains two input fields: "Account" with the value "1" and "Password" which is empty. Below the fields are two buttons: "OK" and "CANCEL". To the right of the password field is a small keyboard icon.

Note: Instead of using the keyboard, you can logon using only with mouse. Simply click the keyboard button (which is right below the password field), and the system will show the keyboard. A keyboard will come up as shown below; simply use click on the keys the same as typing on the keyboard. Either method will work.


3.2. System Setting

Click “System”, and the detailed system setting menu will be displayed.



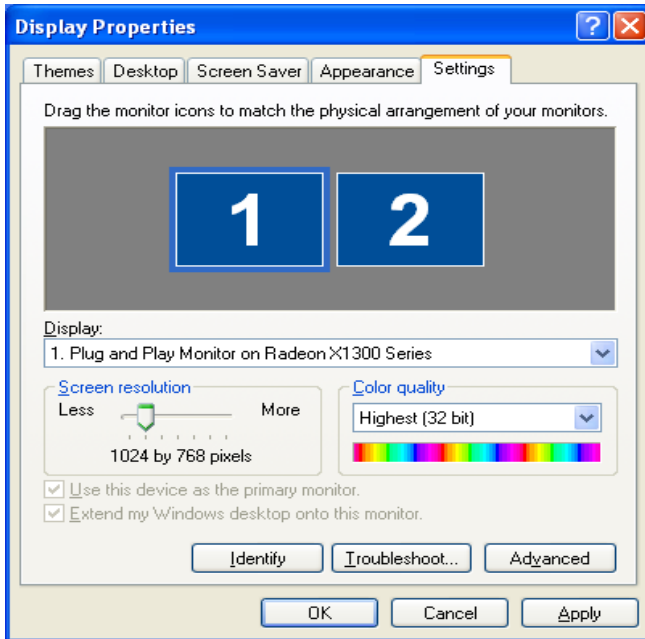
1) Start Screen

: You can choose the default startup screen from this location.

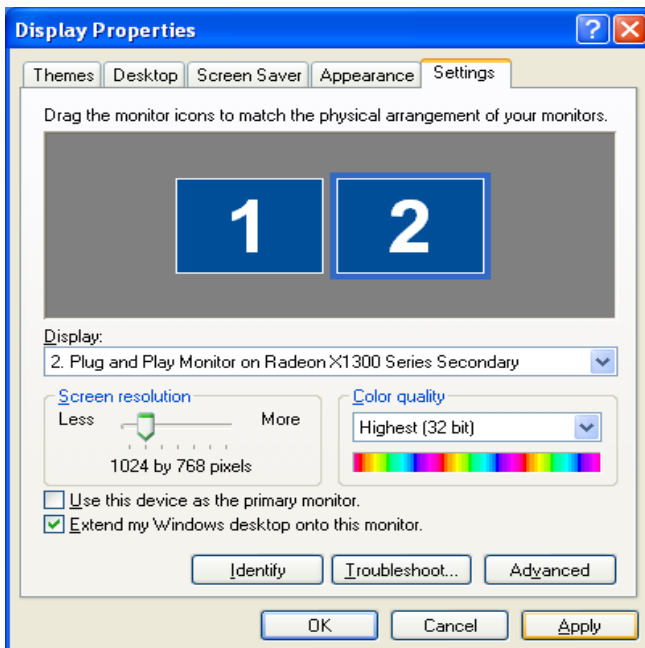
- ScreenMode
- Single: This supports only one monitor.
- Extension: This supports multi monitors.
-  : This button supports advanced functions about under Extension.
- If you want to select specific cameras on multi monitors, click this button. (Refer to Page 20)

How to use the Multi-Monitor

From the main Desktop screen, right click in an empty position and select “Properties”. Then select “Settings” for the dialog as follows.



Click monitor “2”, and select “Extend my Windows desktop onto this monitor.” Click “Apply”, and then “OK”



- Full Screen: Starts the system without any menu or buttons – full screen on the video only.
- Auto startup: Starts the main program automatically when the Windows system starts.
- Auto Startup Viewer: Starts the main video viewer with Windows startup. If only Auto Startup is selected, the system will record, even though the cameras are not viewing.
- When close viewer, close all service: Select this box to stop all the services when you exit the main screen. Note: The system will stop recording if you exit the main viewer screen.

2) Video Type

- NTSC
- PAL

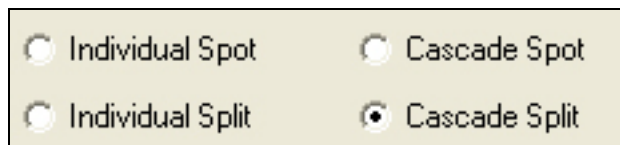
3) Display

- Border: Shows a white line between cameras.

4) CCTV

- Interval: Controls switching time for Composite TV screen and auto-switch mode from the main screen. The interval units are in seconds.

◆ H.Pro/U.Pro board



- Individual Spot: When you want to see every channel of multi boards with multi TV output, you can choose this mode.
- Individual Split: When you want to see the real-time video overlay of multi boards with multi monitors, you can choose this mode
- Cascade Spot: When you want to see every channel of multi boards with only one monitor, you can choose this mode. It requires analog cascade connection first and refers to the install manual. After analog cascade connection completed, you can choose one channel you want to see from all of the boards in the PC system (Camera tab).
- Cascade Split: When you want to see the real-time video overlay of multi boards with only one monitor, you can choose this mode. It requires digital cascade connection first and refers to the install manual.

5) LogFile Setup

- Interval of Motion Event: Sets the interval for logging motion to the log file. By setting the logging interval longer, the log file will be smaller (default = 60sec)

6) Site Information

- Site: Define the name of site.
- Location: Specify the system location.

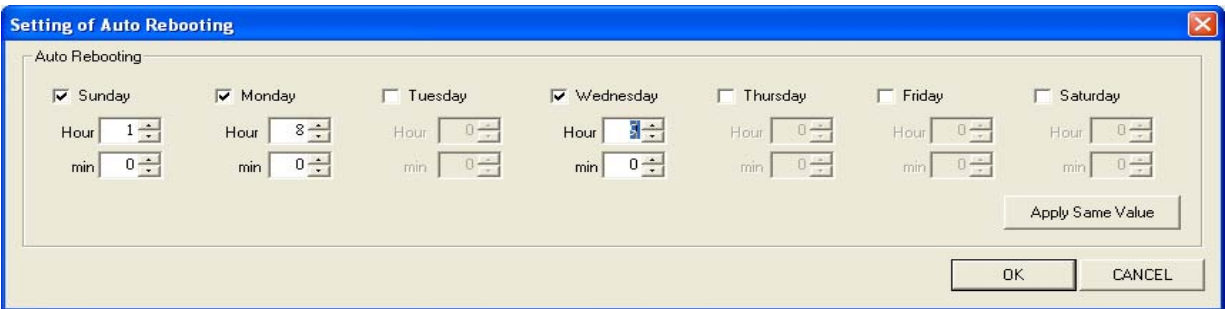
7) Shut Down

- Use: Check to select that you want the system to shut down at a particular time. Note: The system will need to be restarted manually.
- Time: Hour and Minute: Configure the time when the system will be shut down.

8) Auto Reboot

- Use: Check to select if you want the system to reboot at particular times.
- Day Selections: You can set up a schedule of time, date a day of the week

- Apply Same Value: If you set Sunday's options, you can apply this button to set all the days the same.



9) Watchdog

- Use H/W: In case there is a malfunction, the system will complete a hardware reset of the system to try and correct the error.
- Interval: You can choose the interval time for the system to check for defects.

10) Control Key

- Disable Ctrl+Alt+Del: Check this box to disable the use of Ctrl+Alt+Del to reset or disable programming functions in Windows. This also locks the Exit and Minimize buttons.

11) Instant Recording

- Use Instant Recording: Allows instant recording of cameras based on user intervention. This enables the instant recording button on the main viewing screen.

12) Message

- Hide RMS Message: Hide connect or disconnect message of RMS (notification of remote connectivity).

13) Backup setup

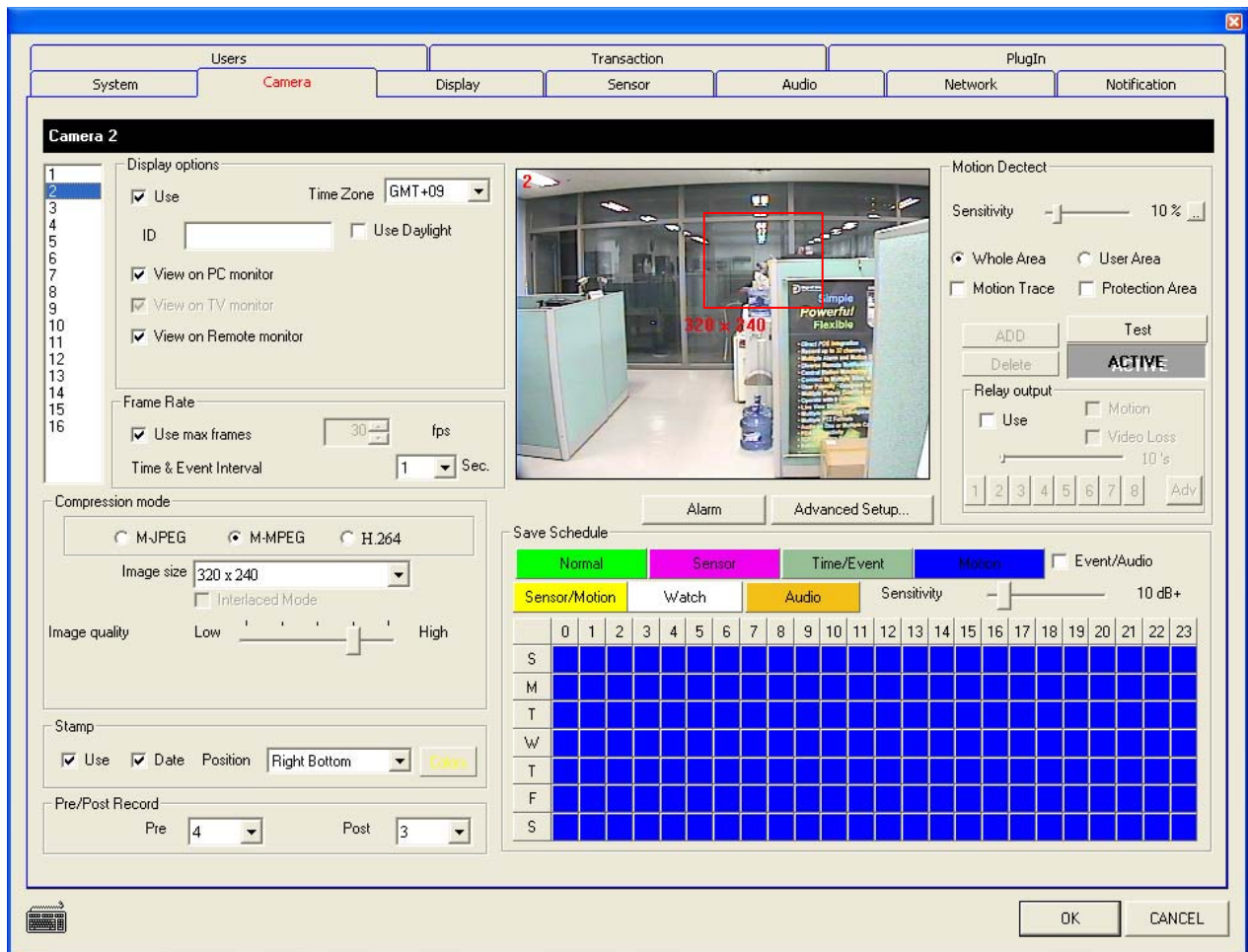
- Sets the Backup options or manages schedules for backups.(refer to section 7-5 Auto Back-up)

14) Save Config: User can save DVR configuration value to the *.ini file.

15) Restore Config: User can load DVR configuration value from the *.ini file. And user has to restart the DVR Viewer. But user must not use the *.ini file that user created on the other DVR system.(e.g. After saving A.ini file on system A, user must not load A.ini on system B. User have to use A.ini file on system A only)

16) Save & Restore the DVR Configuration Values.

3.3. Camera & Motion Setting



1) Display Options

- Use: Check this box to enable the chosen camera on the specified channel in the Camera box.
- ID: Individual Camera ID description.
- View on PC monitor: Check to enable the image to be viewed on the PC Screen.
- View on TV monitor: Check to enable the image to be viewed on the TV Screen.
- * IP servers can't use the external video out (View on TV monitor) expect for the DIP100 and DIP 400 network video servers.
- View on Remote monitor: If left unchecked, the camera can be disabled for remote viewing.
- Time Zone: Get the Local Time Zone
- Use Daylight-saving: Adjust clock for daylight
- Video loopback: 0-1/2-3
 - * This function supports to link one input to the other input using one video source

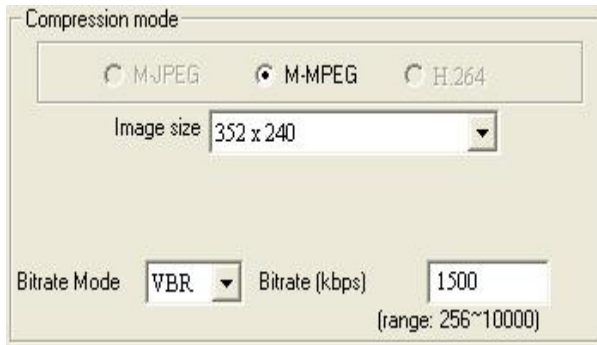
2) Frame Rate

- Use Max Frames: If this box is checked, the system will automatically record at the highest rate available for your system. If unchecked, you can specify the frame rate for the camera (below).
- Frame Rate: Defines the frame rate for the specified camera.
- Time & Event Interval: If the Time/Event recording method is chosen, this setting defines how often images are recorded if there is no motion.

3) Compression Mode

- Mode: Selects either M-JPEG (smaller files), or M-MPEG (full frame recording), or H.264.
- Image Size: Screen resolution.
 - ** If the system is set for NTSC, you can select 320x240 or 640x240 or 640x480
 - ** If the system is set for PAL, you can select 352x288 or 704x288 or 704x576
- **Interlaced Mode: If image size is 640x480, you can select the Interlaced Mode. This reduces image tear common to 640x480 images in most DVR systems.**
- Image Quality: Controls the quality of the image (Note: the higher the quality, the larger the files size)
- Birtate Mode:
 - VBR(Variable bitrate): This is an encoding method that is designed to achieve a better video quality vs. file size ratio than CBR encoding.
 - CBR(Constant bitrate): This is an encoding method that keeps the bit rate the same as opposed to VBR which varies the bit rate.
- Bitrate(kpbs): It depends on product.

● H.Pro board

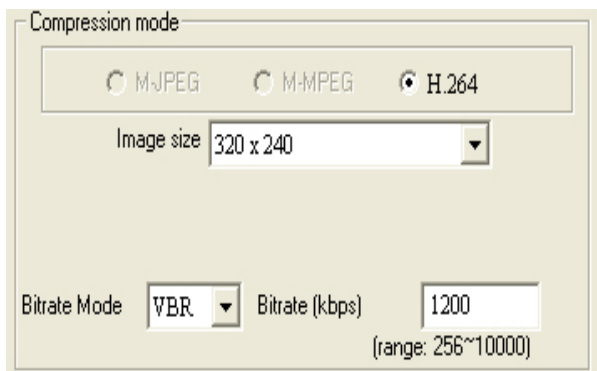


VBR-Bitrate (kpbs): range 256~10000, default is 1500

CBR-Bitrate (kpbs): range 256~10000, default is 1500.

(The more bitrate, the larger the file size and the better image quality.)

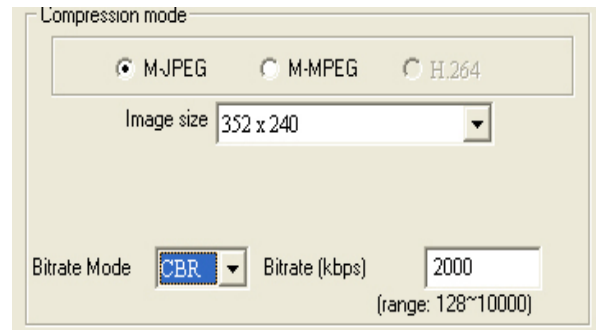
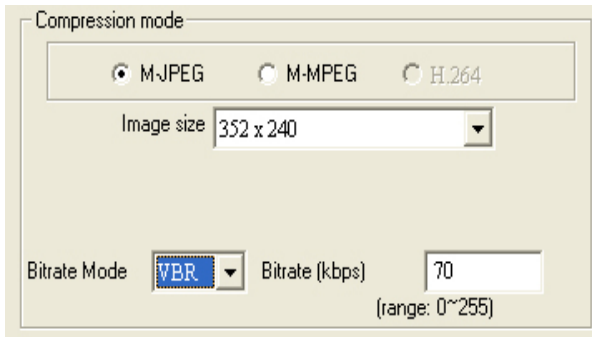
● U.Pro board



VBR-Bitrate (kpbs): range 256~10000, default is 1200

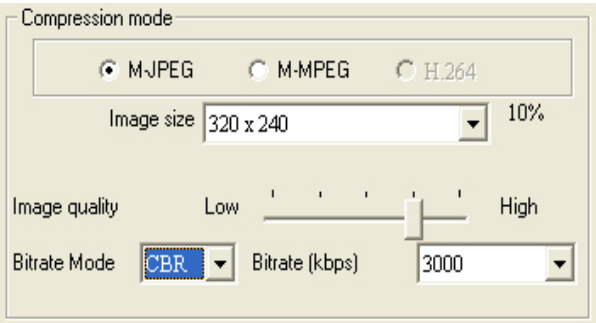
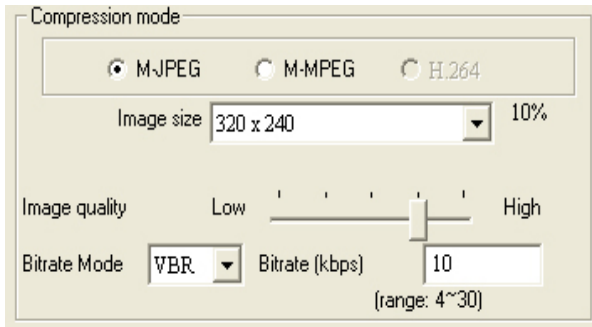
(The more bitrate, the larger the file size and the better image quality.)

- DIP/DIC series



VBR-Bitrate (kbps): range 0~255, default is 70.
 (The smaller bitrate, the larger the file size and the better image quality.)
 CBR-Bitrate (kbps): range 128~10000, default is 2000.
 (The more bitrate, the larger the file size and the better image quality.)

- Luxon

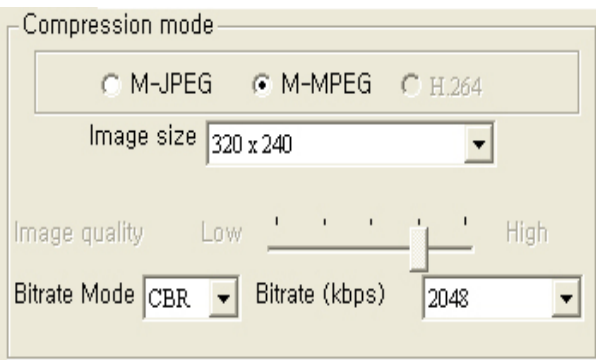
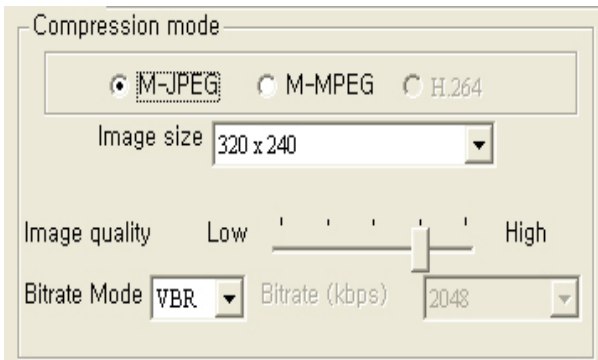


VBR-Bitrate (kbps): range 4~30, default is 10.
 (The smaller bitrate, the larger the file size and the better image quality.)
 CBR-Bitrate (kbps): range 32~4000, default is 3000.
 (The more bitrate, the larger the file size and the better image quality.)

- Zavio

- MJPEG : VBR/AUTO

- MPEG4: CBR/VBR/AUTO



4) Stamp

- Use: Select this box to have the time displayed on the recorded image.
- Date: Select this box to add the date to the recorded image.
- Position: Select the location of the Time/Date stamp.

5) Pre/Post Record:


You can define the number of frames that will be recorded before and after detecting motion

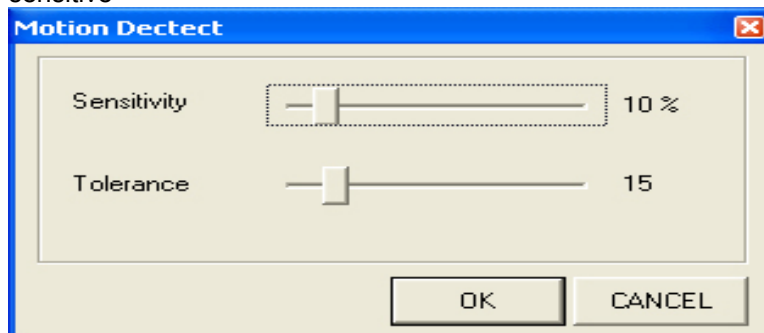
- Pre: Define the number of frames to record before detecting motion.
- Post: Define the number of frames to record after detecting motion.
Note: If you are recording audio, it is best to set the number of "Post" recording to 30 frames or more.

6) Motion Detect

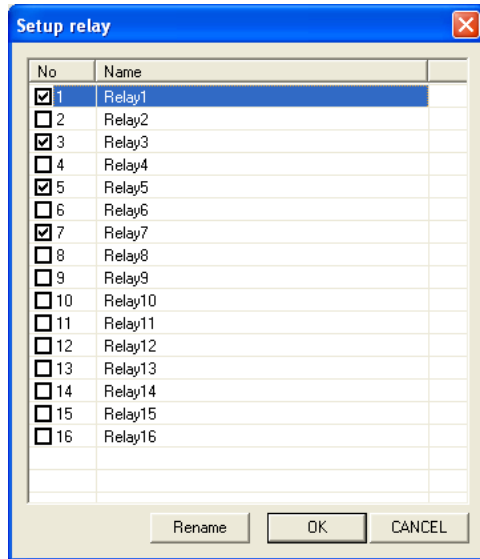
- Sensitivity: Defines the percentage of sensitivity—lower is more sensitive (the default value is 10%).



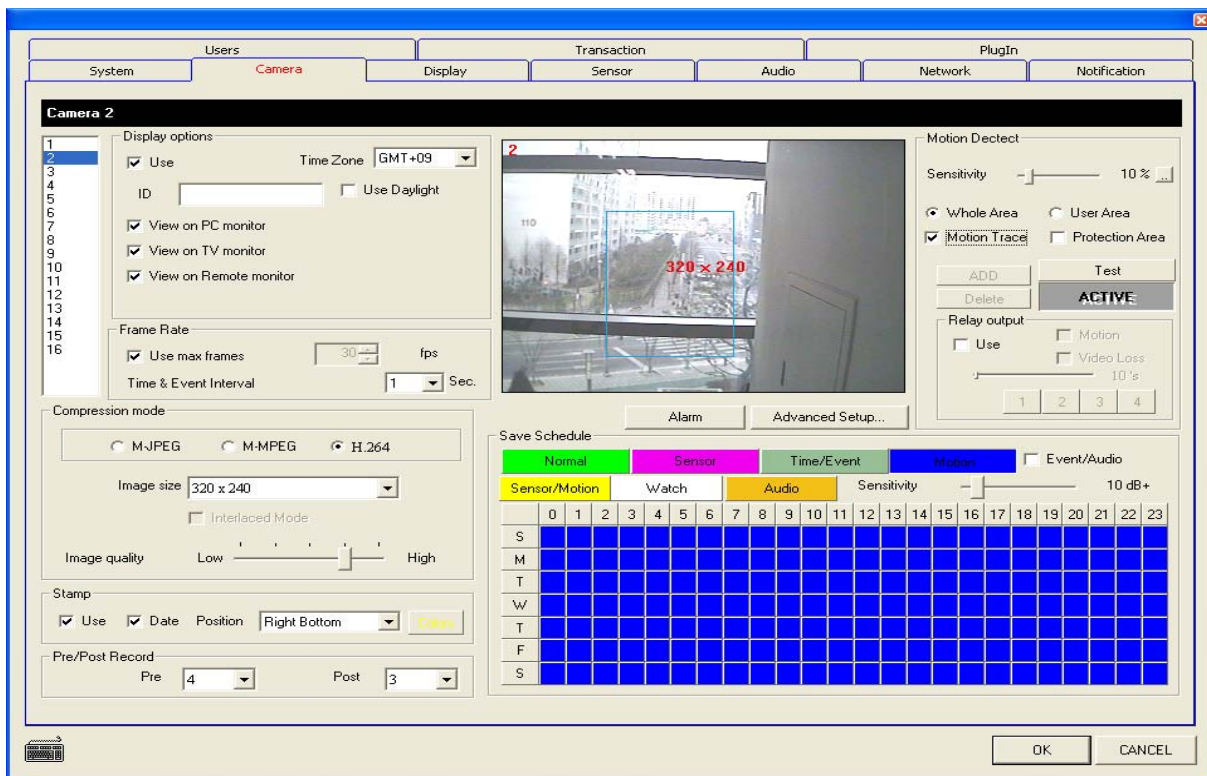
-  : This is advanced button about Tolerance limit
- Tolerance If there is a recording problem (always recording over night) due to the camera noise at night time, you can adjust the sensitivity by the control of "Tolerance". Lower value is more sensitive



- Whole Area: Motion will be detected anywhere in the screen.
- User Area: Motion will be detected in defined areas.
- ADD: To add an area for motion detection, click the ADD button, and define the range by clicking the area and making a box around the area you want for detection. The system will display a red box around the new area (see the sample picture below).
- Delete: To delete an area previously defined, select the defined box, and then click the DEL button.
- Test: Activate this button and the screen will display detected areas as red dots. This is useful in defining motion areas.
- ACTIVE: When the motion is detected, this button will highlight and indicate that the system will record. Use this to verify that the Sensitivity is set correctly.
- Relay Out: If you want motion to trigger a relay, activate the settings here. (Additional equipment is required to send the Output.
- Relay Out: Defines how many seconds are set between triggering the relays.
- Relay Out: Relay Ports: Defines which port will be used by the output (1, 2, 3, 4, 5, 6, 7 or 8)
Use to extend relay or rename relay, click "Adv" button



- Video Loss: You can use a video loss event to trigger a relay output



- Protection Area: You can mask an area on fixed cameras for privacy.(defined the same way as with Motion Detection); Not used with HW compression cards and IP Cameras. e.g.2400H.Pro, 4800H.Pro, IP100, DIP-series etc



- Motion Trace: If motion is activated, the area of motion is shown in the DVR Viewer as seen below.

Relay LogViewer Backup Color Control Search Setup

1

VEILUX.
7-17-2008
10:22:33
Protection 1 10:38:47
Protection 1 10:38:47
Protection 1 10:38:46
Protection 1 10:38:46
Protection 1 10:38:43
Protection 1 10:38:42
Protection 1 10:38:41
Protection 1 10:38:41

PTZ

1 8.22.2007 10:38:47

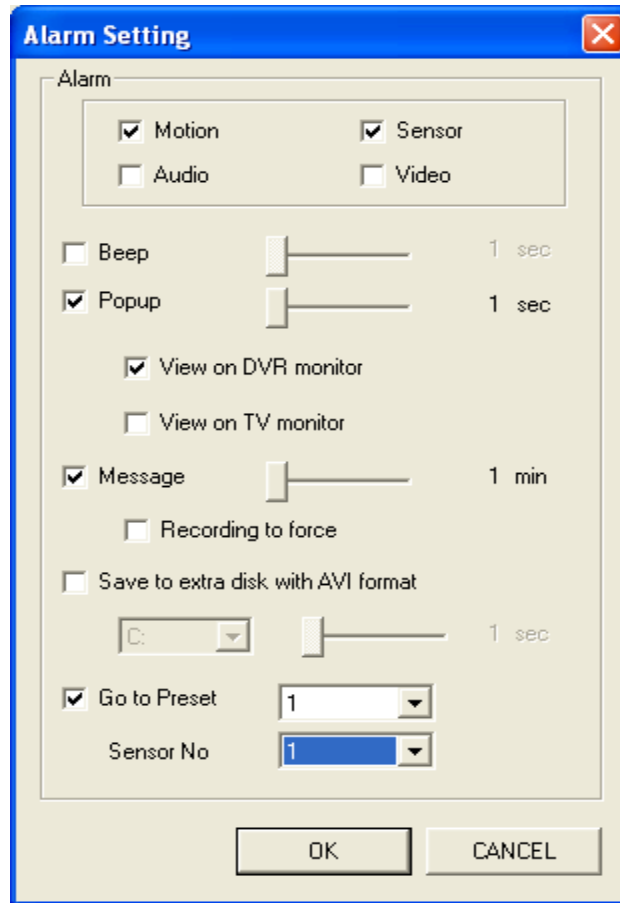
Cameras
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

POWER RECORD

Alarm ●●●●●●
Network ●●●●●●

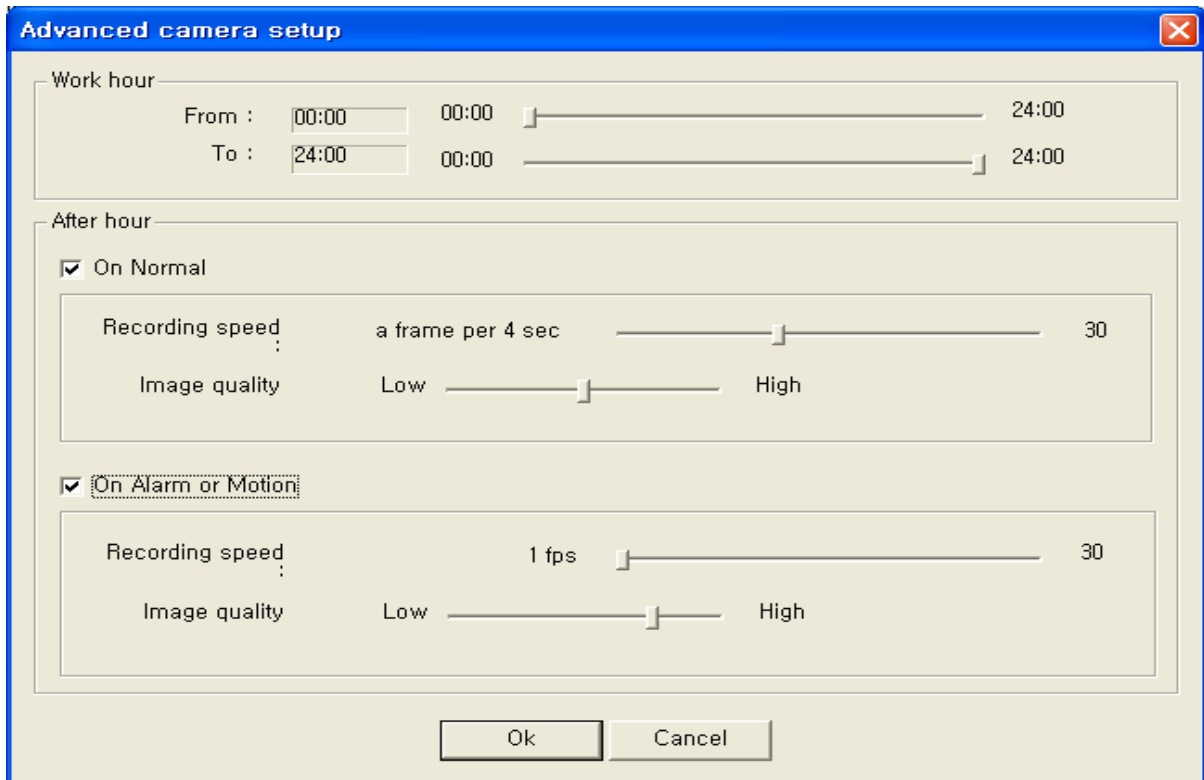
Cameras Status
6.14.2007 18:00:05 PM

7) Alarm Setting



- Check the event which you want to take Beep or popup and so on.
- Beep: Creates an audio alert if an alarm event occurs for the defined number of seconds. The audio occurs through both the external and internal speaker.
- Popup: If a motion, sensor or video loss event occurs, the corresponding camera will popup for the set amount of seconds.
- View on DVR Monitor: If a motion or sensor event is occurs, the corresponding camera will popup for the set amount of seconds.
- View on TV Monitor: If a motion or sensor event is occurs, it can be displayed on a TV monitor connected to the composite output for the set amount of seconds.
- Message: A visual ALERT message can be displayed on the screen, for the defined number of seconds. The alert can be turned off by user input. This is only controlled by a video loss or sensor event.
- Recording to force: After sensor event occurs, the camera will be forced to record by full frames. To stop the forced recording, click the "Alarm Area" (in red) on the DVR Viewer screen.
- Save to extra disk with AVI format: If a motion or sensor event is occurs, the system can save current images as an AVI file during the event interval to disk.
- Go to Preset: If a motion or sensor event occurs, it can move a camera to preset.
- Sensor No: If you select sensor no, when sensor event occurs, camera will move as preset no to be set.

8) Advanced Setup



- Work Hour
 - . From: Start Time
 - . To: End Time
 - . This is the time that the system records under the normal configuration.
- After Hour
 - . The system will record based on the advanced setup settings during the time outside the time zone established as Work Hour.
- On Alarm or Motion
 - . The system will record at a different rate of motion during the After Hour setting based on the settings configured here.

3.4. Recording Setting

Your DVR has 6 different recording modes that you can choose from. The recording schedule is based on a one week schedule. Define the schedule according to the day and hour in each day.

- 1) Normal Mode
 - In this mode, the DVR continuously records images from the selected camera.
- 2) Sensor Mode
 - In this mode, the DVR will record the images only if any event occurs from a sensor connected to the system.
 - If you select Event/Audio, system will record the images whether audio is detected or sensor does.
- 3) Event/ Normal Mode
 - The system will continuously record one frame per period set (in seconds) (1,2,3,,20,30 max.).
 - If there is motion or sensor detection, the DVR will begin recording the set frame rate.
 - Select the Event/Audio option to record at the higher frame rate if only audio is detected.

- 4) Motion Mode (most commonly used mode)
 - In this mode, the system will record images only if motion is detected within the defined areas.
 - Select the Event/Audio option to record at the higher frame rate if only audio is detected.
- 5) Motion Sensor Mode
 - In this mode, the system will record images when a sensor event has occurred and/or if motion is detected.
 - Select the Event/Audio option to record at the higher frame rate if only audio is detected.
- 6) Watch Mode
 - In this mode, system will not record any images from the selected camera, and will only display the live image on the screen.
- 7) Audio Mode
 - In this mode, the system will record images only if audio occurs.

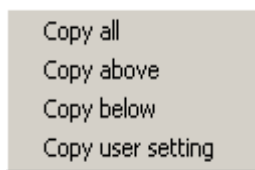
● Recording Schedule example

Save Schedule																								
Normal				Sensor				Time/Event				Motion				<input checked="" type="checkbox"/> Event/Audio								
Sensor/Motion				Watch				Audio				Sensitivity				4 dB+								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
S	Green	Green	Green	Green	Pink	Pink	Pink	Pink	Green	Green	Green	Green	Blue	Blue	Blue	Blue	Yellow	Yellow	Yellow					
M	Green	Green	Green	Green	Pink	Pink	Pink	Pink	Green	Green	Green	Green	Blue	Blue	Blue	Blue	Yellow	Yellow	Yellow					
T	Green	Green	Green	Green	Pink	Pink	Pink	Pink	Green	Green	Green	Green	Blue	Blue	Blue	Blue	Yellow	Yellow	Yellow					
W	Green	Green	Green	Green	Pink	Pink	Pink	Pink	Green	Green	Green	Green	Blue	Blue	Blue	Blue	Yellow	Yellow	Yellow					
T	Green	Green	Green	Green	Pink	Pink	Pink	Pink	Green	Green	Green	Green	Blue	Blue	Blue	Blue	Yellow	Yellow	Yellow					
F	Green	Green	Green	Green	Pink	Pink	Pink	Pink	Green	Green	Green	Green	Blue	Blue	Blue	Blue	Yellow	Yellow	Yellow					
S	Green	Green	Green	Green	Pink	Pink	Pink	Pink	Green	Green	Green	Green	Blue	Blue	Blue	Blue	Yellow	Yellow	Yellow					

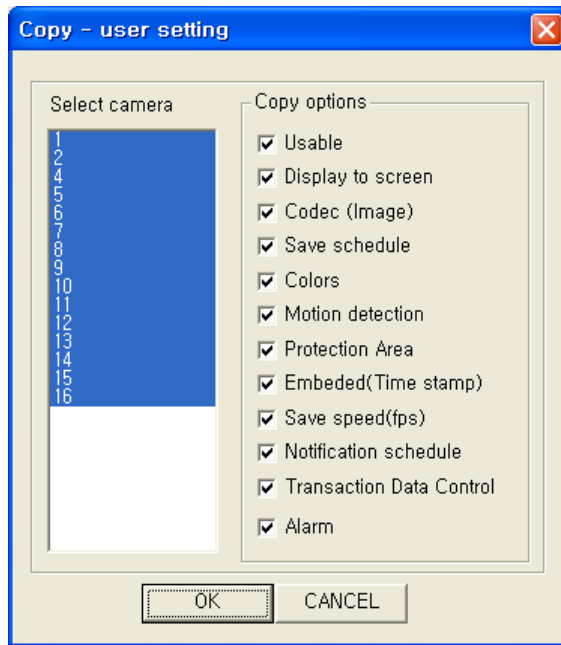
- Sunday – Saturday (00:00 – 03:00): The system will record all captured images.
- Sunday – Saturday (04:00 – 07:00): The system will record only if a sensor event is detected.
- Sunday – Saturday (08:00 – 11:00): The system will record based on the Event & Normal Mode and at the frame rate indicated in that section. If there is motion, the system will record at the faster rate.
- Sunday – Saturday (12:00 – 15:00): The system will record captured images, but only if any motion is detected.
- Sunday – Saturday (16:00 – 18:00): The system will record if a sensor event is detected, or if there is motion detected.
- Sunday – Saturday (22:00 – 24:00): The system will record captured images if audio is detected.

* Note

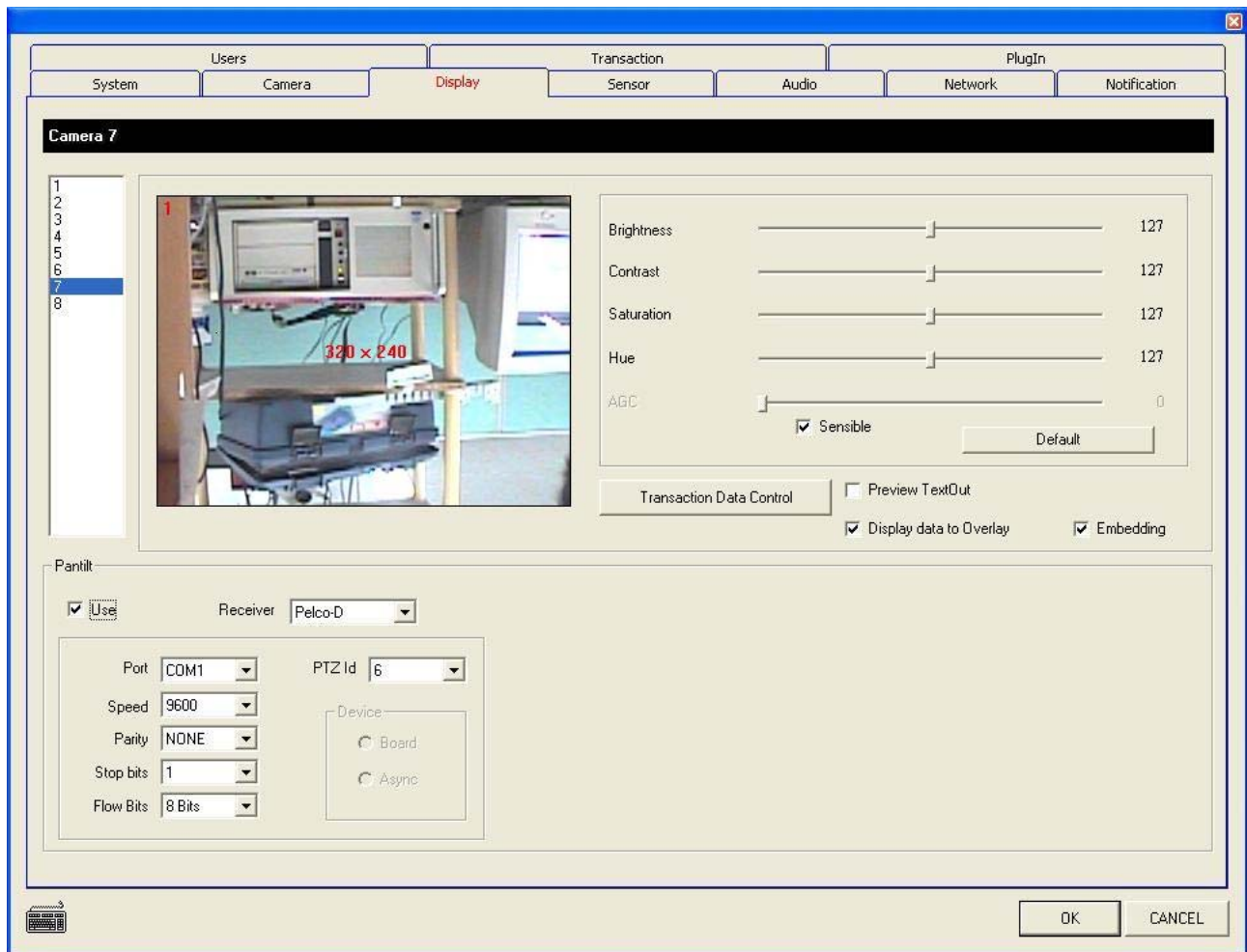
If you are settings any or all of the cameras the same, you can set one camera and then copy it to others by right clicking on the screen to bring up the following window. Then choose the appropriate selection to copy the settings to other cameras. .



Choose the options from the following window. The blue highlighted cameras will receive the copied settings.

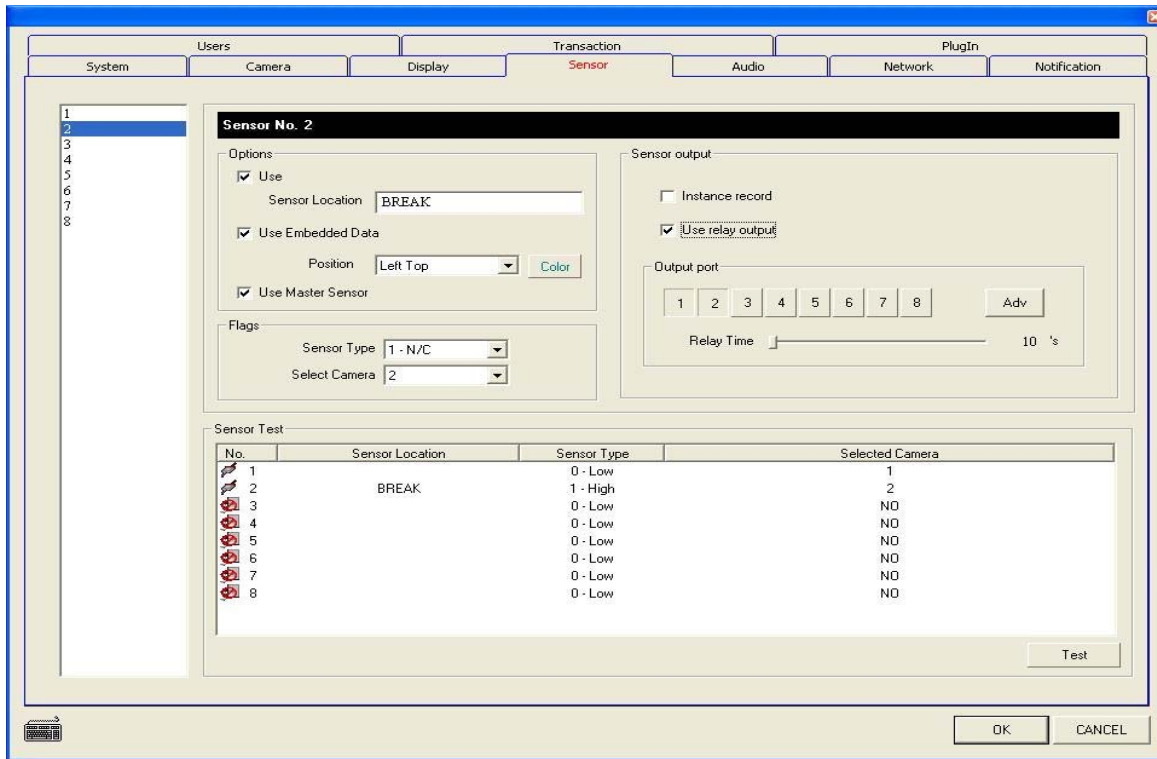


3.5. Display & Pan Tilt Setting



- 1) Screen Control Options
 - Changes the brightness, contrast, saturation and hue of each camera.
 - Note: The automatic gain control feature is only available on some systems, and should only be used in circumstances where the video signal is too weak or too strong.
- 2) Transaction Data Control
 - If the system has been built to support the POS function, this button will be active (*Refer to the "POS Manual"*)
 - Preview Textout displays a sample of what the overlay text will be for the POS.
 - Display data to overlay turns on or off the POS display on the live screen.
 - Embedding: If a capture board supports POS function, Video and Pos data will be displayed separately or embedded into the video.
- 3) Pan Tilt
 - Select the settings to match your PTZ camera, if any.

3.6. Sensor Setting



1) Options

- Use: Select this box to enable the sensor function on the DVR.
- Location: This is a description of the sensor location.
- Use Embedded Data: When sensor is active, sensor location will be embedding on image until event is inactive,
- Use Master Sensor: If you select one sensor as master sensor, when master sensor is active, other sensor will be unused. When master sensor is inactive, other sensor will be changed as use.

2) Flags

- Sensor Type: Defines the type (high or low) of signal from the sensor.
High – Normally Open Low – Normally Closed
- Selected Camera: Configures a sensor to a specific camera.

3) Sensor Output

- Instant record: if you want to record all camera when sensor event, check this box.
Recording to stop use main UI instant recording button.
- Use Relay Output: If you want to use the sensor to activate a relay, check this box to define the output. (Additional equipment is required to send the Output.)
- Relay Time: Defines how many seconds are set between triggering the relays.

4) Sensor Test

- If you click the “Sensor” test button, the system will show the active status of each sensor. .



: Active

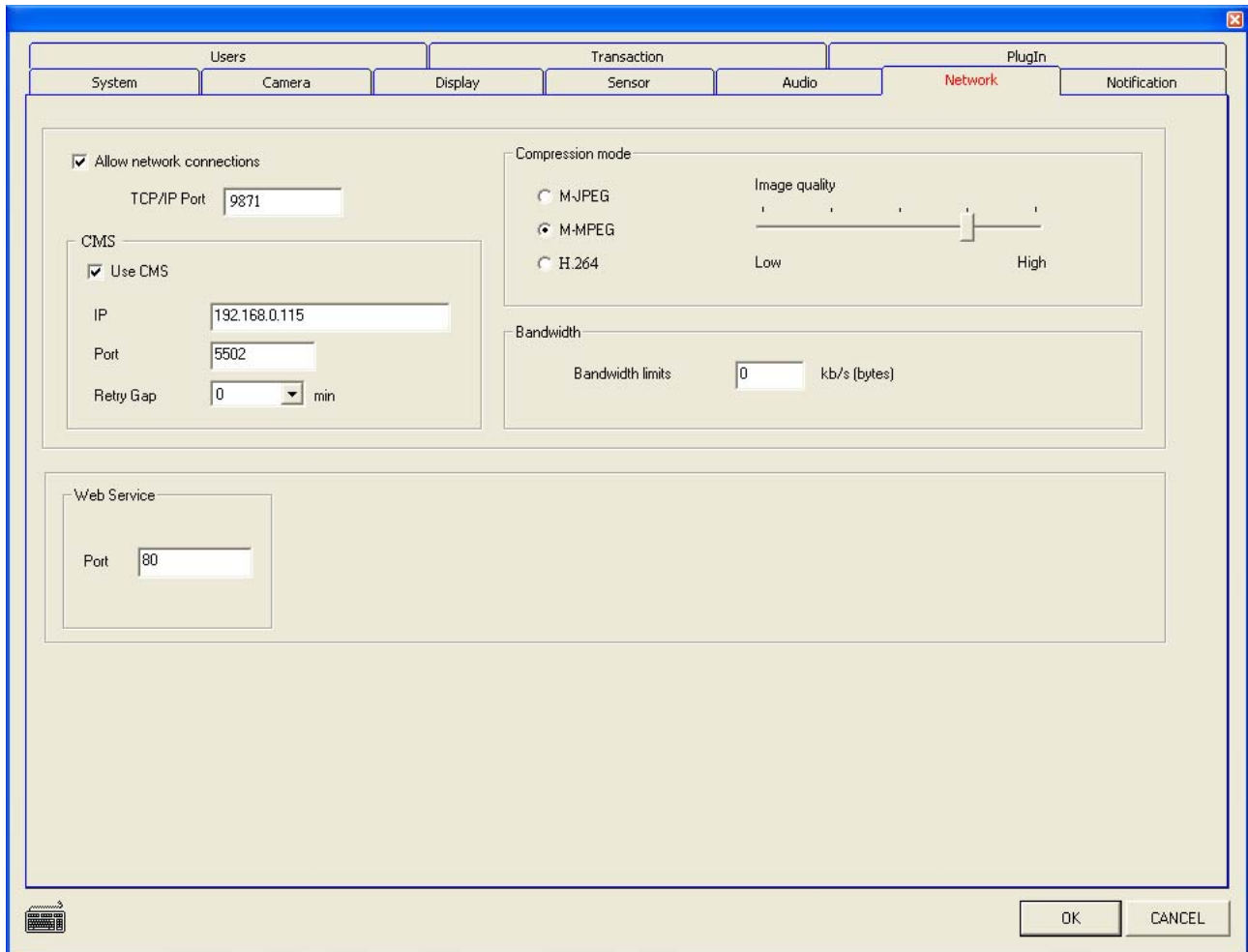


: Not active

5) Saving & Searching GPS Data

- Master Sensor – One sensor control the other sensor by input
- Display (& embedding) text when input sensor

3.7. Network Setting



1) Use Network Connection

- Check the “Use” box to allow network (remote) connections to the DVR.
- Select the TCP/IP Port: TCP/IP port number. (The default port is 9871). Note: this feature can be useful if you are using multiple DVRs with only one static IP address. Each DVR should have at least 10 ports between them (i.e., DVR1 = 9871, DVR2 = 9881, etc.). If you use different TCP/IP ports, you can port map the incoming connections to specific DVRs. See your network administrator for more information.

**** If you want to use RMS through the WAN(Internet), you have to forward the port number 9871~9876 to connect on DVR server side before anything else.**

2) Compression Mode

- Chooses the video transmission compression method, either M-JPEG (faster) or M-MPEG (full screen update), or H.264
- Image Quality: Controls the quality of the images that will be sent to the remote site.

3) Bandwidth limits: 0 kb/s (bytes)

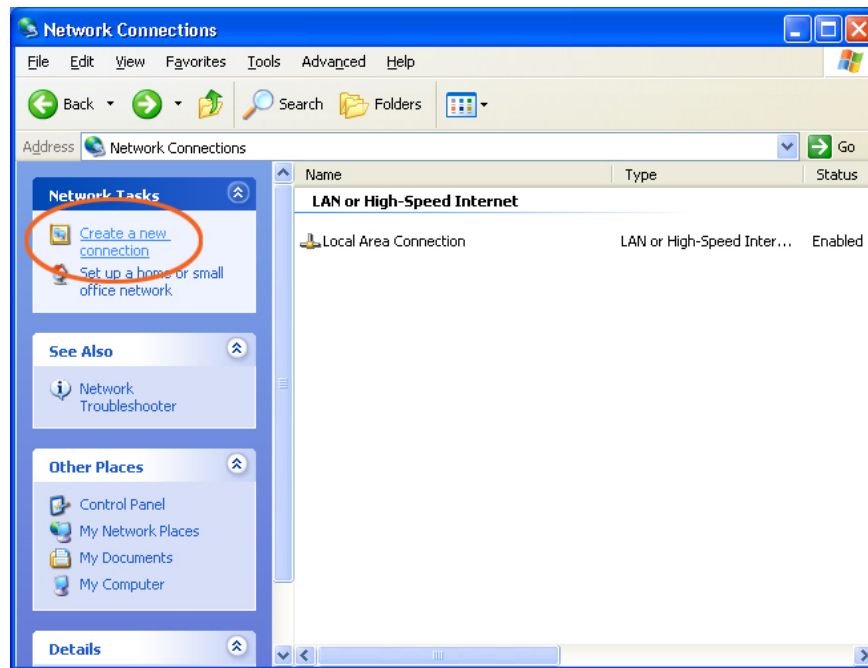
- Default: 0 (Maximum Bandwidth)
- Other input values limit the bandwidth the system uses for transmission. It is input as kbytes/sec. I.e., 128 = 128Kb per second of bandwidth.

- 4) CMS (Central Monitoring Software)
 - Use CMS: If this box is checked, the DVR Server try to connect with the CMS server once it is started. After the connection is established, it will send alarm notifications to the CMS server and interact with CMS server.
 - IP: Enter the CMS server IP Address
 - Port: Enter the CMS server Port number.(default 5502)
 - Retry Gap: Select the number of minutes between retries when connection is lost. A selection of 0 minutes means that the DVR will not retry when if a connection fails with CMS server.

- 5) Web Service:
 - Port: Default HTTP port is 80

Modem (Dial-up) Connection Settings (only for systems with a modem connection)

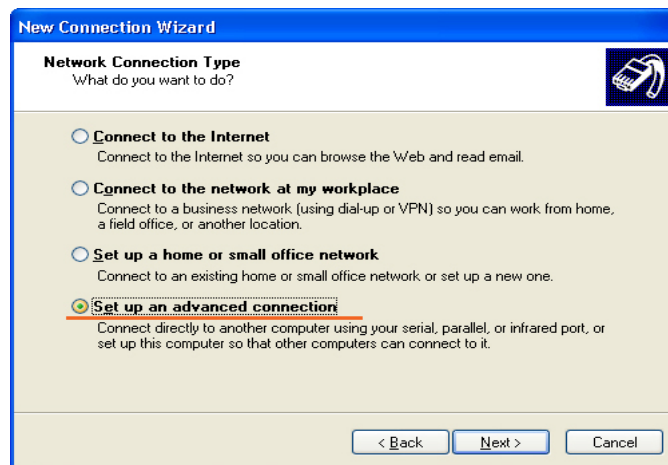
- The following settings occur in the operating system (Windows XP is shown)
- ① Control Panel → 'Network Connections' → 'Create a new connection'.



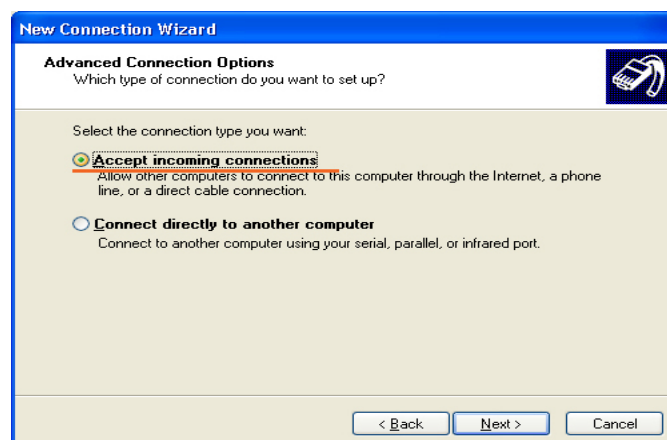
② When the 'New Connection Wizard' shows, click 'Next'.



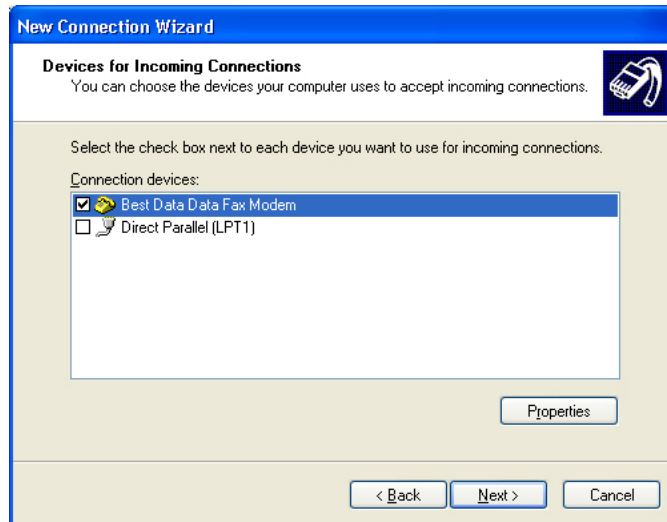
③ Select 'Setup an advanced connection' as "Network Connection Type" and click 'Next'.



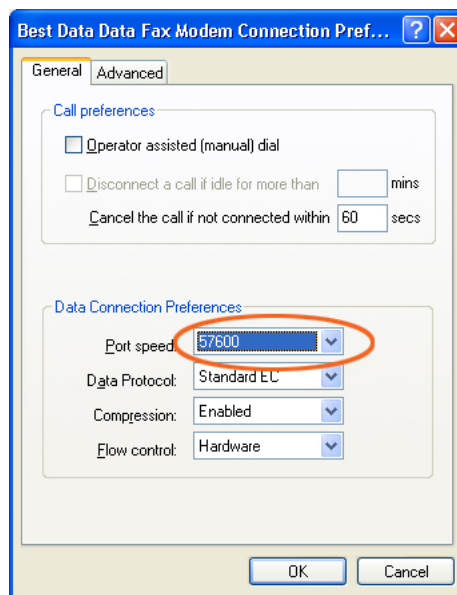
④ Select 'Accept incoming connections' as "Advanced Connection Options" and click 'Next'.



- ⑤ Select the modem corresponding with 'Incoming Connections' and click 'Properties'.



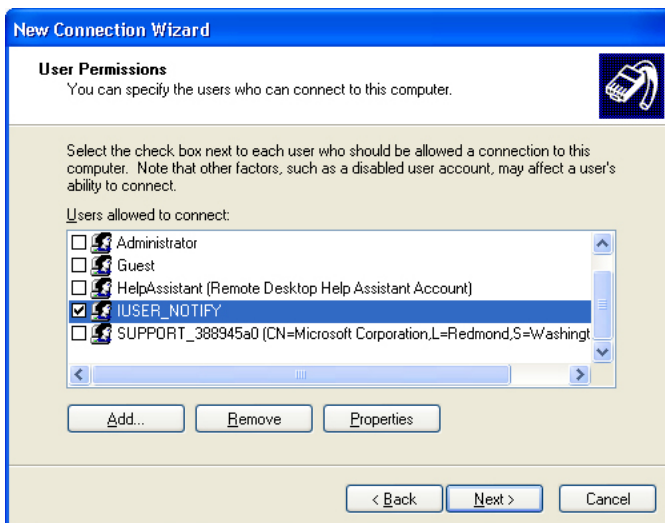
- ⑥ Click Properties and check that the port speed is the same as installed Modem. If yes, return to the 'New Connection Wizard' and click 'Next'.



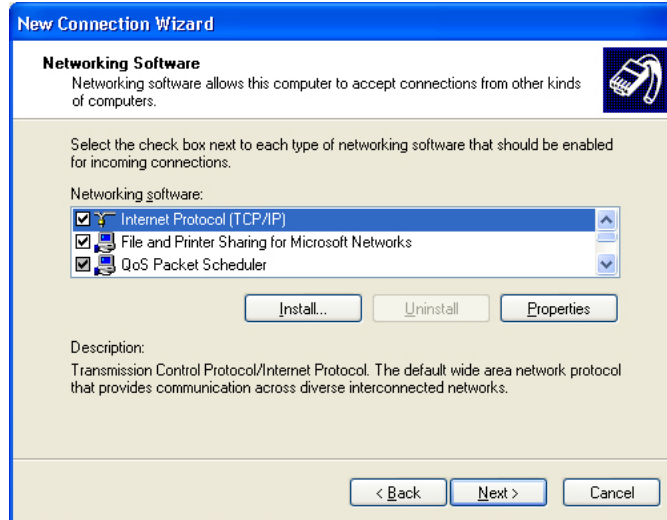
⑦ Click on the 'Do not allow virtual private connection' and then 'Next'.



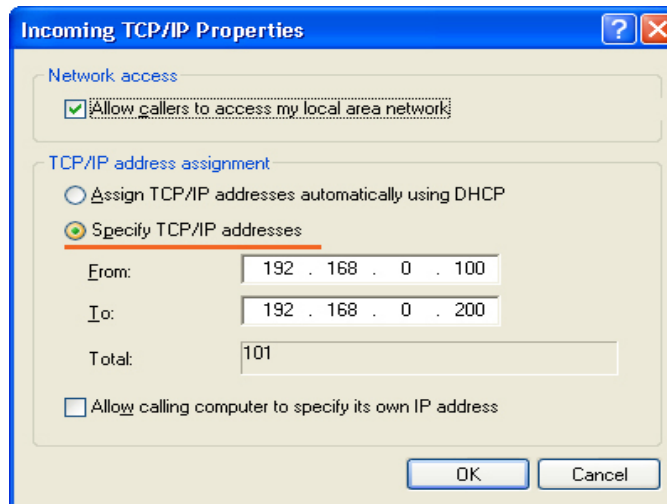
⑧ click 'Add' to register a new user for Dial-up Networking connection. Please enter a User ID & Password and click 'OK'. Click on the new user and click 'Next'.



- ⑨ Select 'Internet Protocol(TCP/IP)' and then 'Properties'.



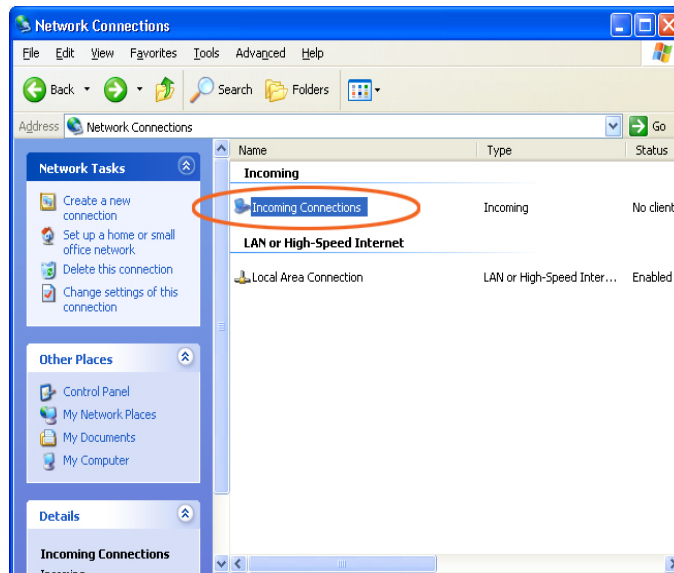
- ⑩ Please specify TCP/IP address for remote connection. (See your network administrator for an IP address)



- ⑪ Click 'Finish', to complete the settings.

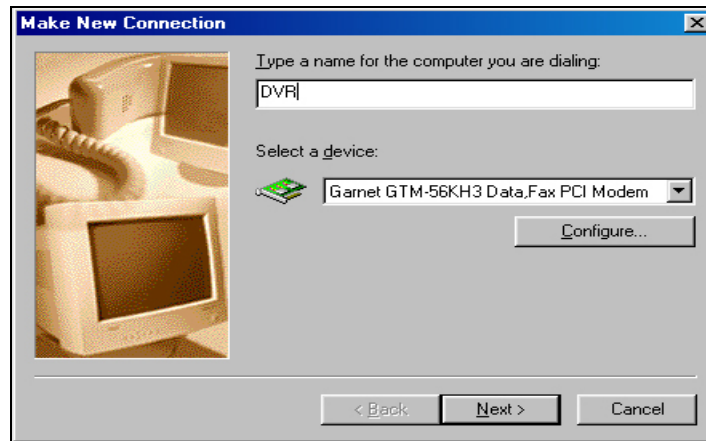


- ⑫ Look in 'Network Connections', to see your new 'Incoming Connections'.

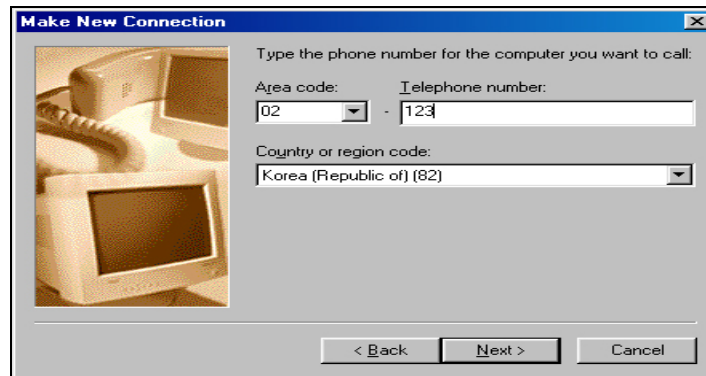


- If there is no Modem connection listed and you are using Windows98 SE, correct the connection setting as follows (not needed in Windows XP)

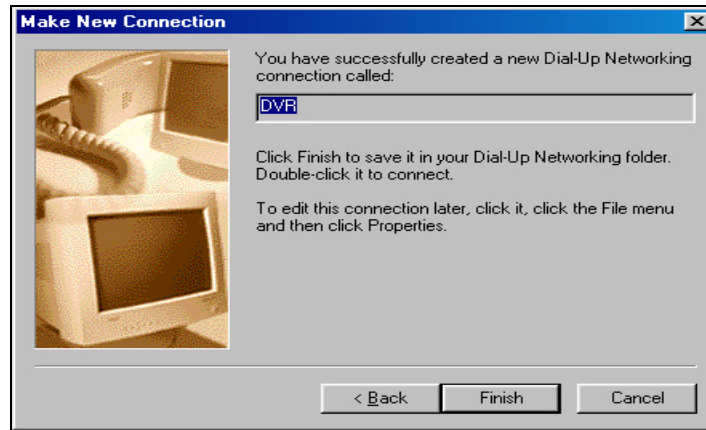
① Start→Programs→Accessories→Communications→Dial-Up Networking. Under 'Make New Connection', insert the computer name, select a proper Modem and click 'Next'.



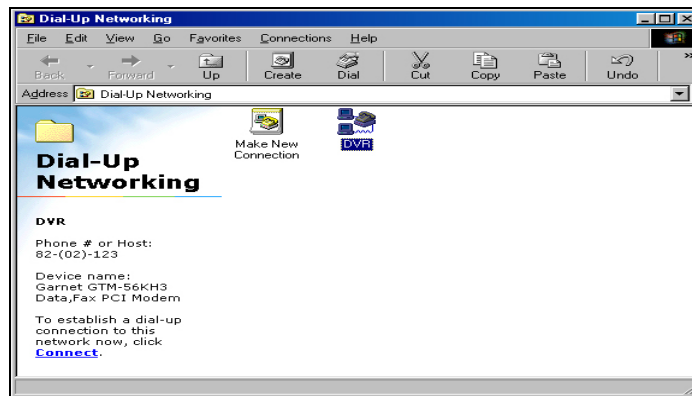
② Insert telephone number and click 'Next'.



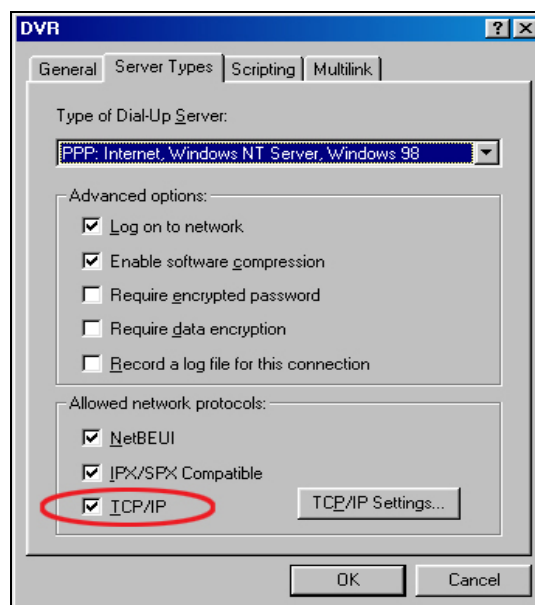
③ **Click** 'Finish'.



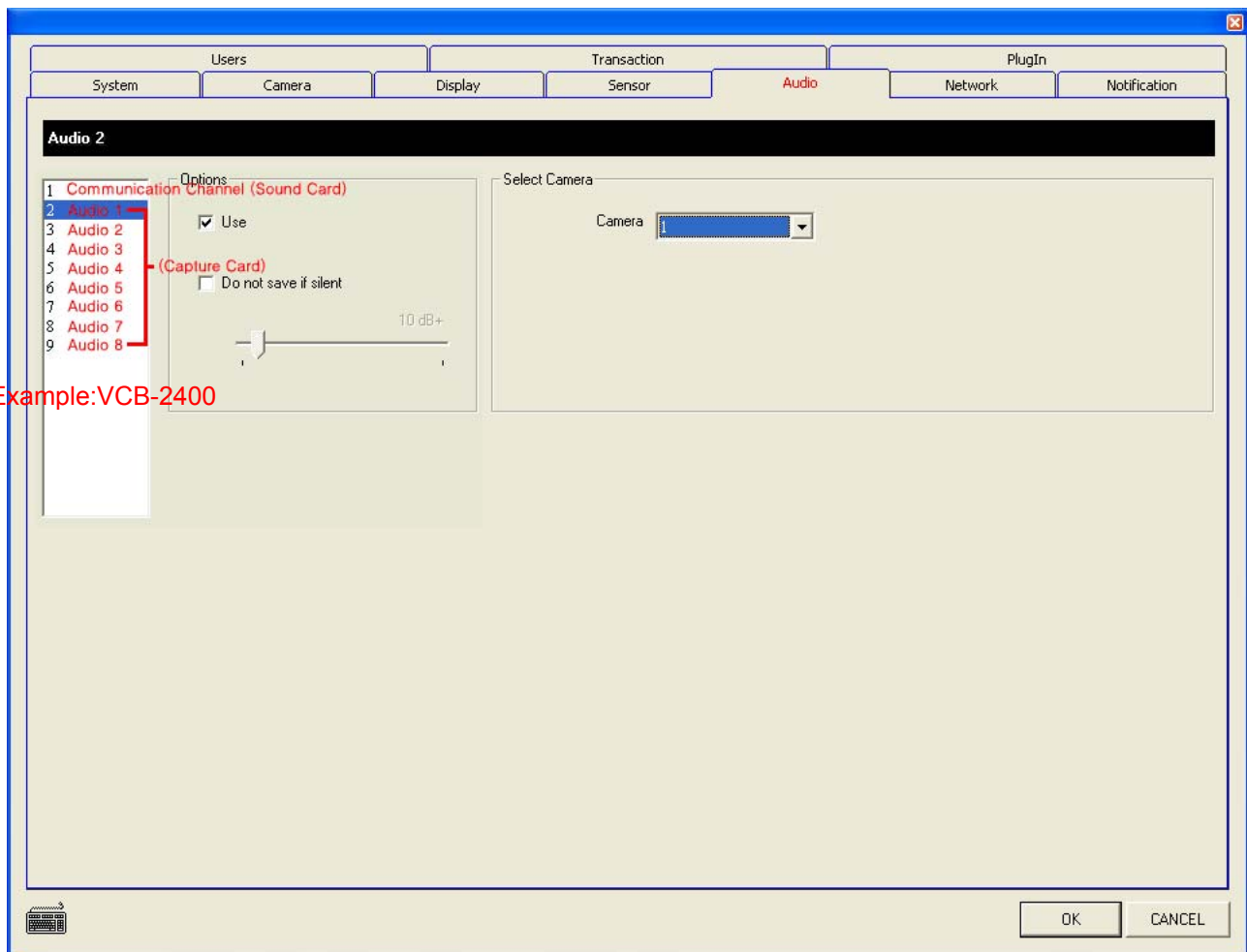
④ **Again** Start→Programs→Accessories→Communications→Dial-Up Networking. You should see a new icon for the connection.



⑤ **Double click** the new icon, select 'Server Types' and check that " TCP/IP" is checked.



3.8. Audio Setting



1) Options

- Check "Use" to enable audio on a particular channel. Note: Channel 1 is the audio from the sound card. Higher channels are from the DVR components. Channel 1 is the only channel that is available to listen to live – the other channels record and can be played back only.
- If you check the "Do not save if silent" box, the system will not use the audio to start recording. Motion and sensor recording will continue to be in effect, however.

2) Select Camera

- This will associate audio to a particular camera.

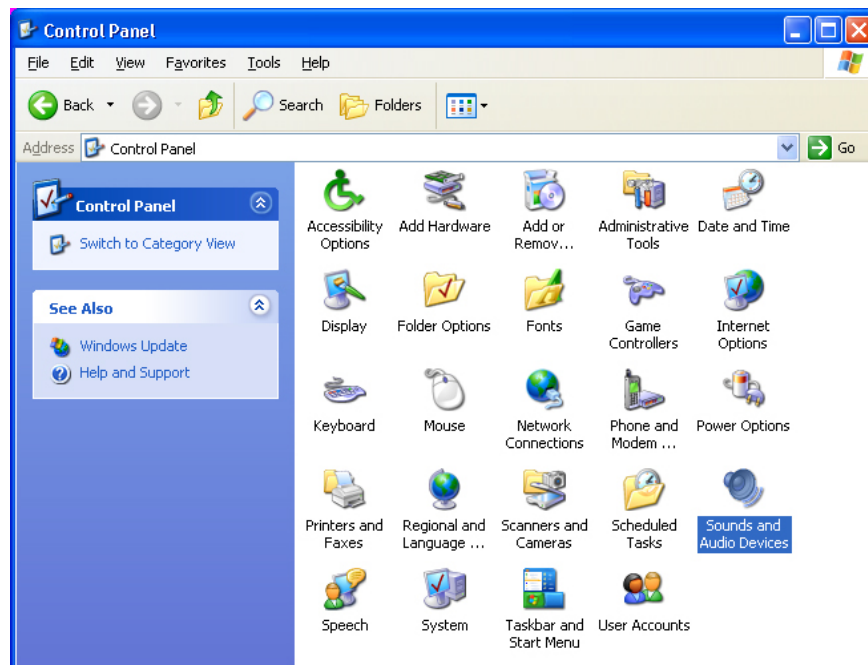
Note: Model VCB-4 PRO & VCB-1200 will support 4 channels of audio recording. If the DVR system has a separate sound card, the system will support 5 channels of audio recording. Other models may have more audio channels. Please see your dealer for more information.

If you want to communicate from the remote site to the DVR using audio, you must have a sound card. In the case of two-way audio, the sound card channel does not record that audio. You must use channel 2 or above for recording audio on the DVR.

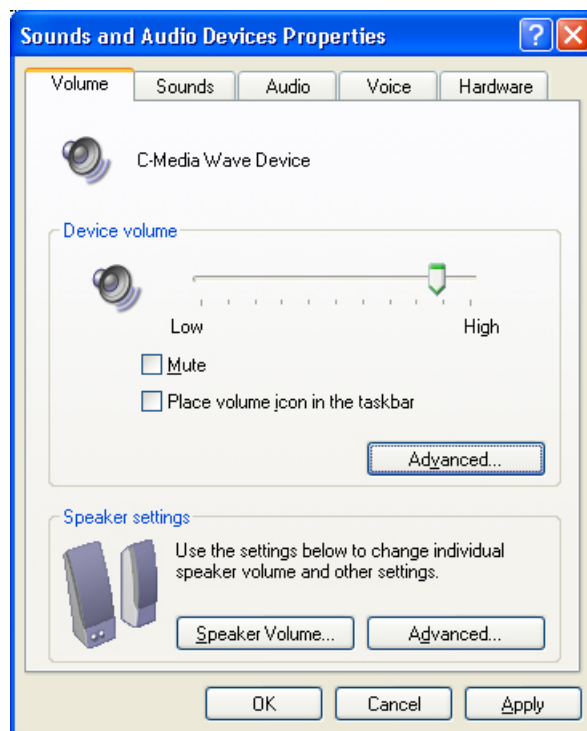
How to check the audio if it is not working properly:

- Problem 1: Check if there is another recording program is running. If there is another recording program running, the recording function on the DVR system will not work.
- Problem 2: Check the path for input signal and make sure it is set up as Microphone. Review the following steps. (OS: Windows XP)

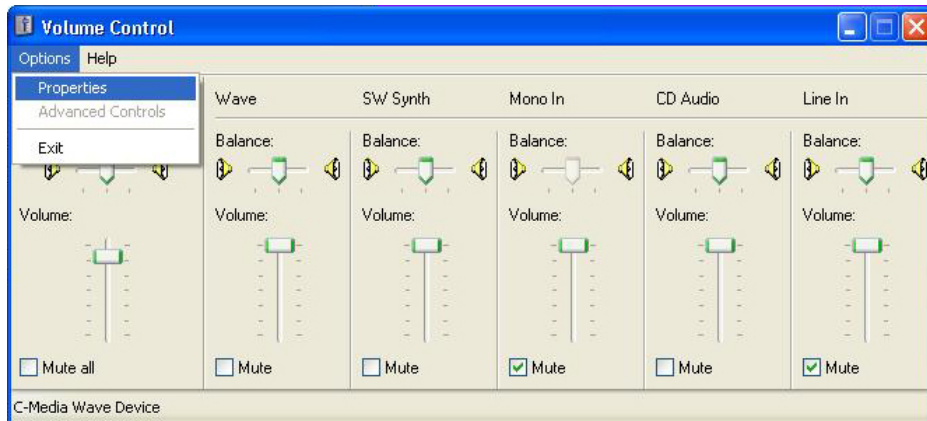
- ① Run 'Sounds and Audio Devices' in the Control Panel.



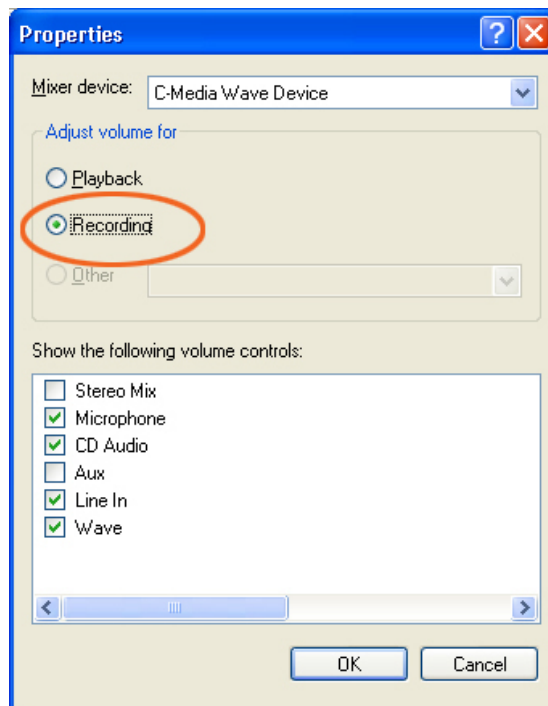
② Click Advanced in under “Sounds and Audio Devices Properties”.



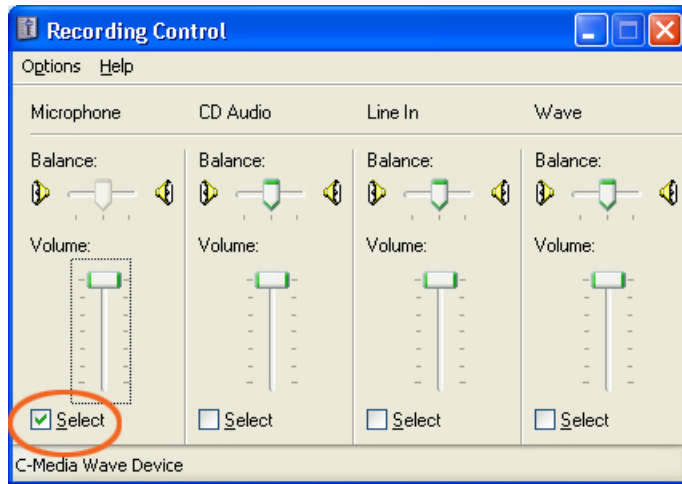
③ Select Options → Properties.



- ④ Select 'Recording' and click "OK".



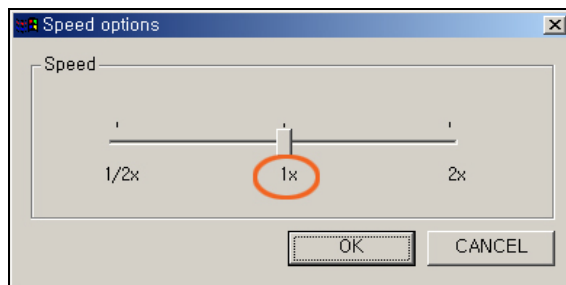
- ④ Click the "Select" box for the Microphone. If you want to playback the video with audio on the remote site, you also need to take the above steps on the remote PC.



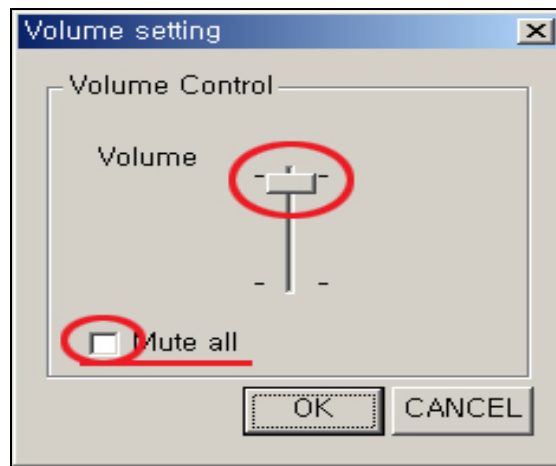
- ⑤ After setting, test if the setting is correct or not as follows.
Start→Program→Accessories→Entertainment→Sound Recorder.



- Note: From the DVR software, when you playback the recording data with sound, you must set the playback speed to 1x.

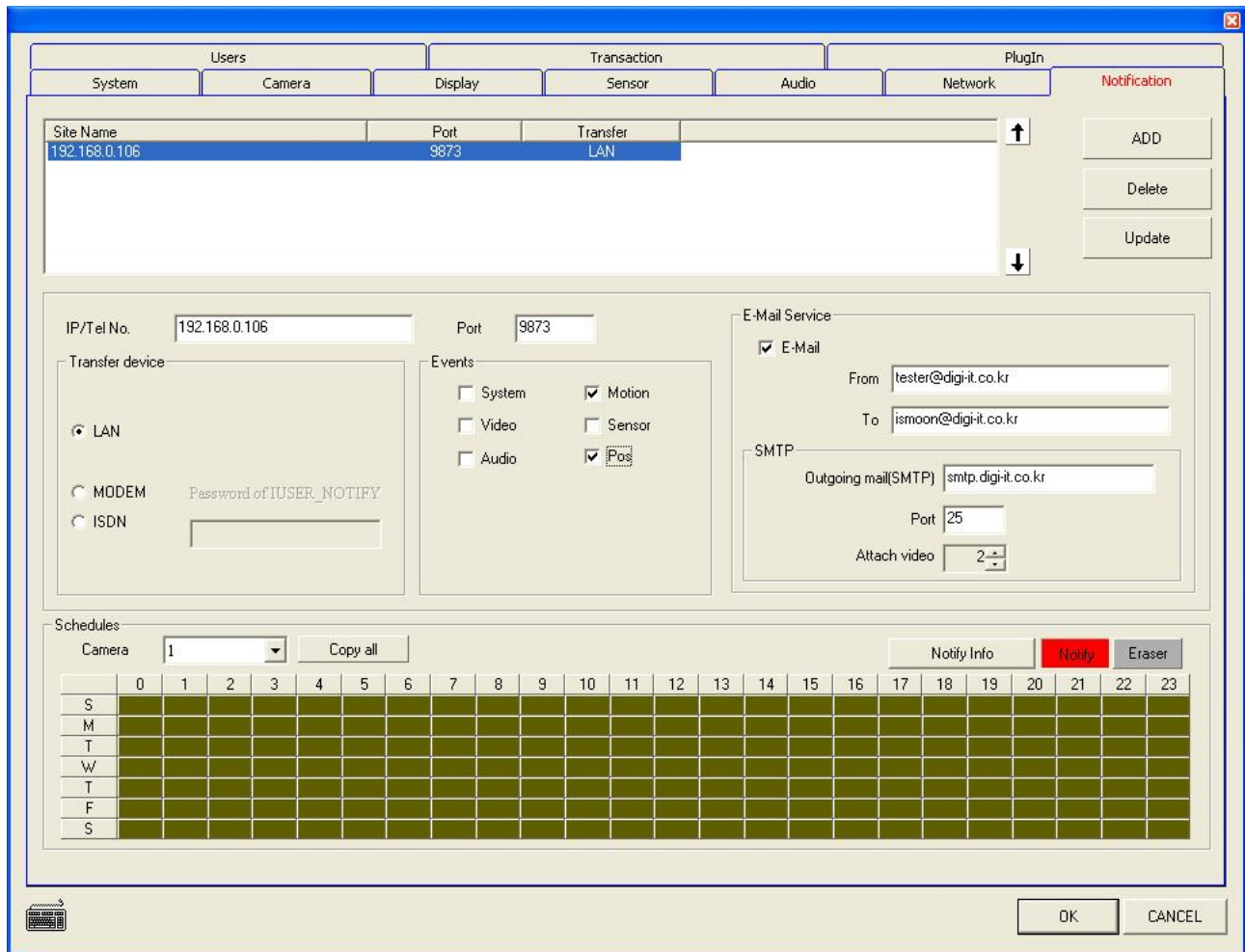


Also, please check the “Mute all” settings and volume level.



3.9. Notification Setting

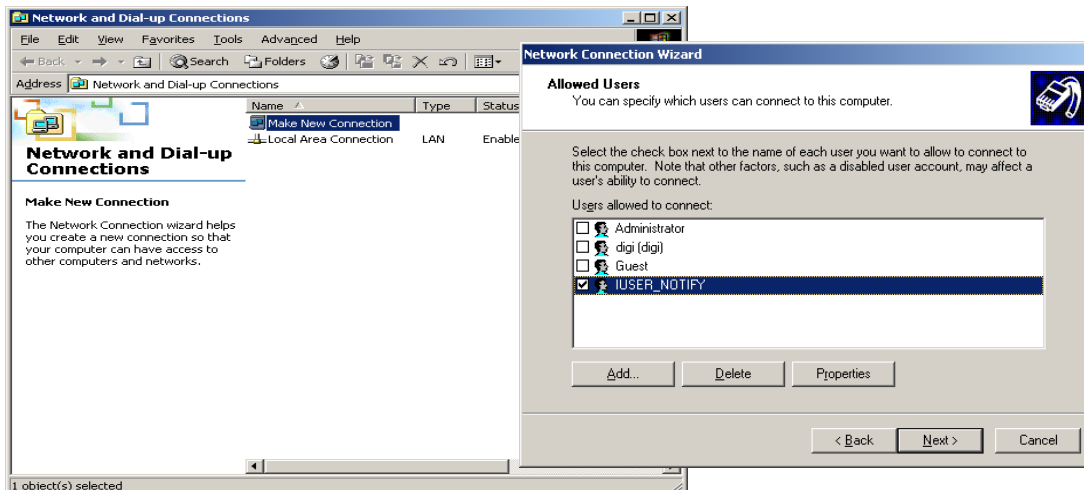
You can configure Notifications that will alert users or the remote site directly when motion is detected, sensors are triggered, or other events occur.



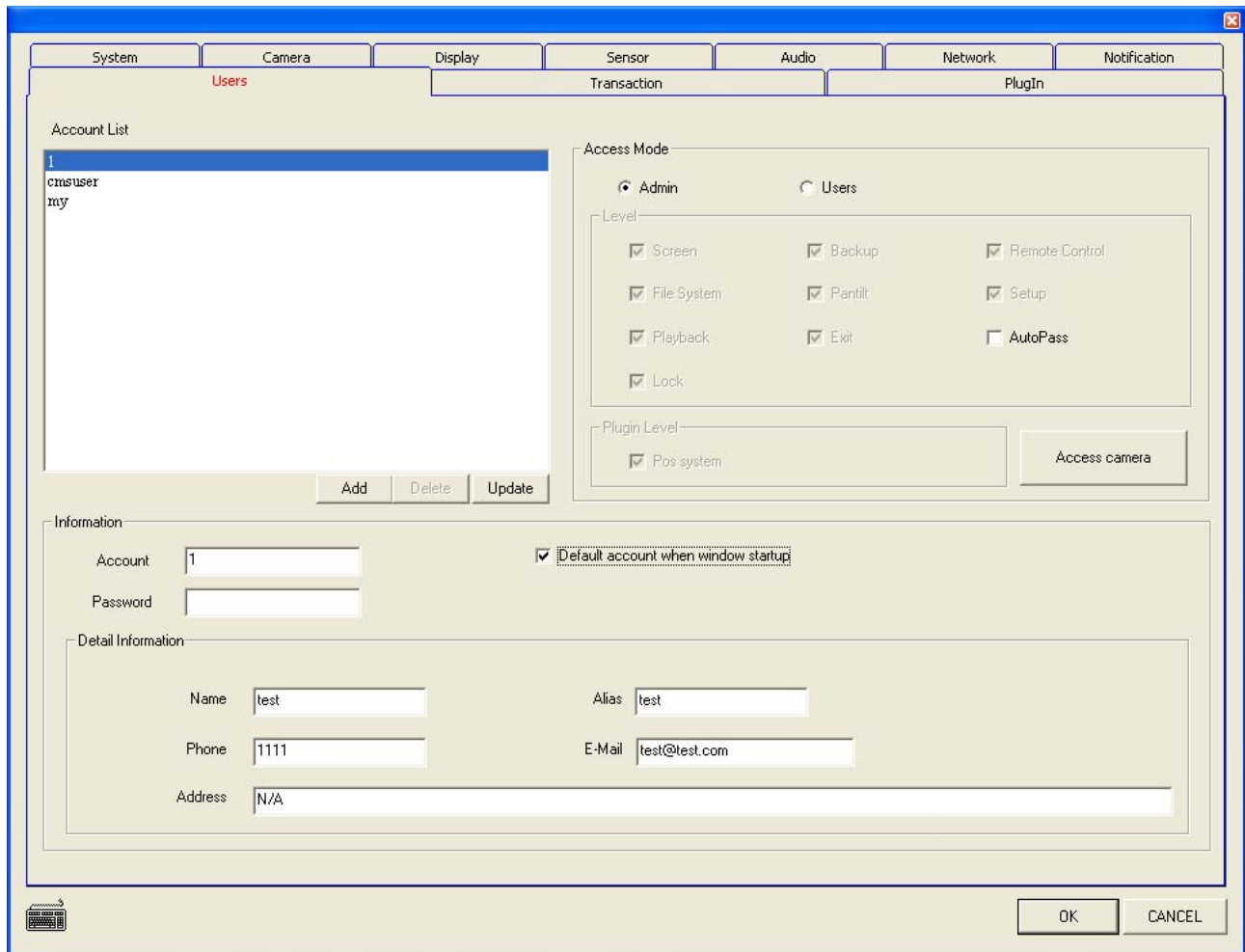
- 1) ADD
 - : ADD a remote site with following information
 - IP/Tel No: The IP or Telephone number of the remote site.
 - Port: TCP/IP Port number.
 - Transfer Device: Choose a network type for the connection (LAN, Modem, ISDN)
 - Password of IUSER_NOTIFY: If you select MODEM or ISDN, you will need a password to login to the Remote Surveillance System.
 - Events: Check the types of events you want to create a notification for.
 - E-Mail Service (This function isn't supported for MODEM, ISDN)
 - E-Mail: Check to send e-mail for the event.
 - From: Type the individual's e-mail address to send the notification.(default DVR@Server.com)
 - To: Type the individual's e-mail address to receive the notification
 - Outgoing mail (SMTP): Type Outgoing mail Server (see your administrator if you need this information)
 - Port: Type Port number (standard port is Port 25)
 - Attach video: Choose the number of images to attach (if none, there will still be a detail report of the event sent to the user).
- 2) Update
 - : Select this option if you are modifying a notification that has already been defined. .
- 3) Delete
 - : Select this option to delete a notification that has already been defined.

- 4) Events:
 - System: When a user changed setting value of DVR, it notifies to RMS
 - Motion or Sensor or Audio: When motion or sensor or audio events happened to DVR server, it notifies to RMS.
 - Video: When video on/off happened to DVR server, it notifies to RMS.
 - Pos: It is possible to notify to RMS if DVR server enable to popup of POS action code. (Refer to 111p)
- 5) Schedules
 - Camera: Select a specific camera
 - Notify: Click the "Notify" button and define a schedule for notification.
 - Eraser: Erase selected time zone.
 - Copy All: Apply to all cameras.
- 6) Notify Info

- Dial up connections cannot notify more than one RMS at a time.



3.10. User Setting



1) ADD

: Authorized users can ADD additional users.

- Access Mode: Admin: Administrators have full access to the entire system.
Users: Users have partial access to the system (defined by an Admin).
- Access Level: When "Users" is selected, this category highlights. You can then define accessibilities for a specified user.

** AutoPass: If you check this box, the system will assume that whoever logged into the system first is the current user, and will grant access based on their level. Note: The system may not require passwords in this case. Also, if you choose this function, the DVR must be restarted to begin the function.

- Information: Account: User ID (used when a user logs on to the system)
- Information: Password: Password (used when a user logs on to the system)
- Detail Information: Detail Information: Name, Alias, Phone, E-Mail, Address

2) Delete

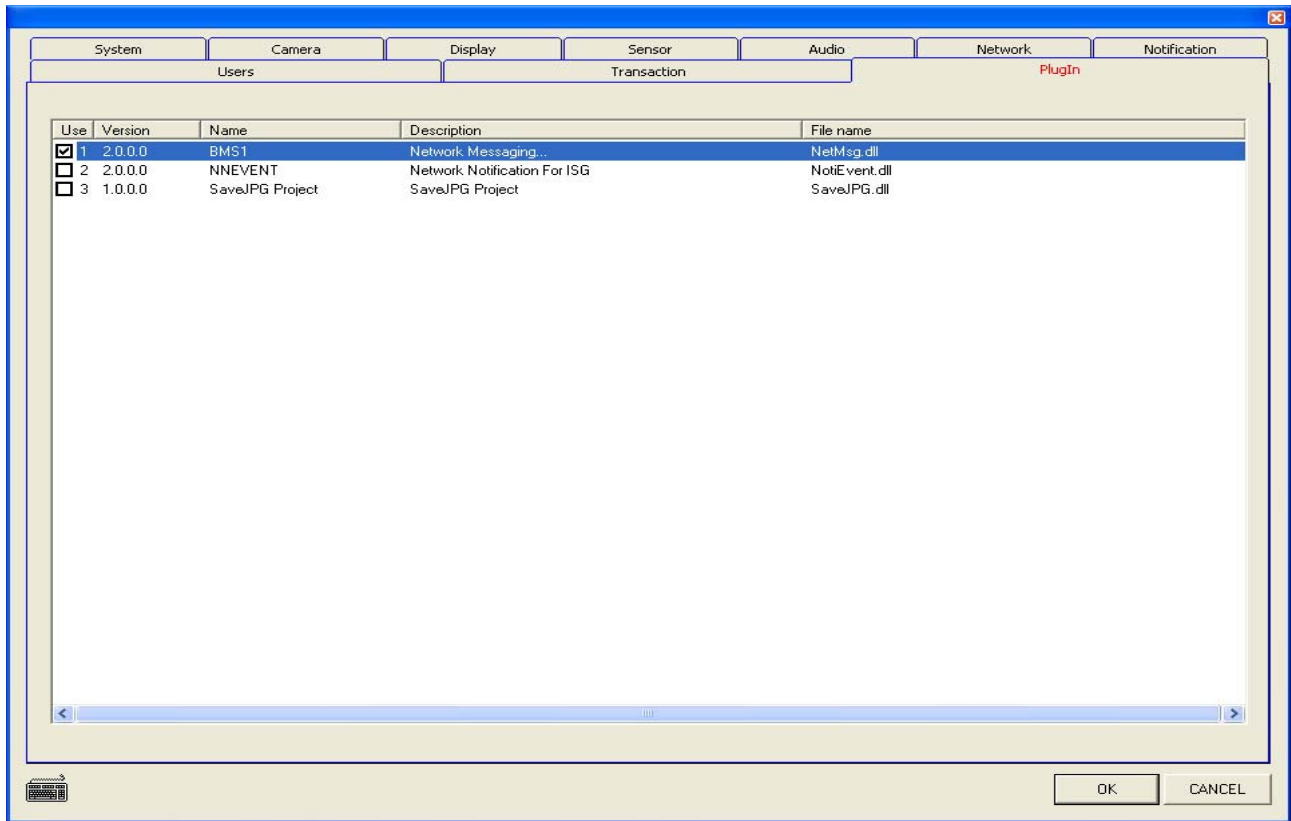
: Select this option to delete an account that has already been defined.

3) Update

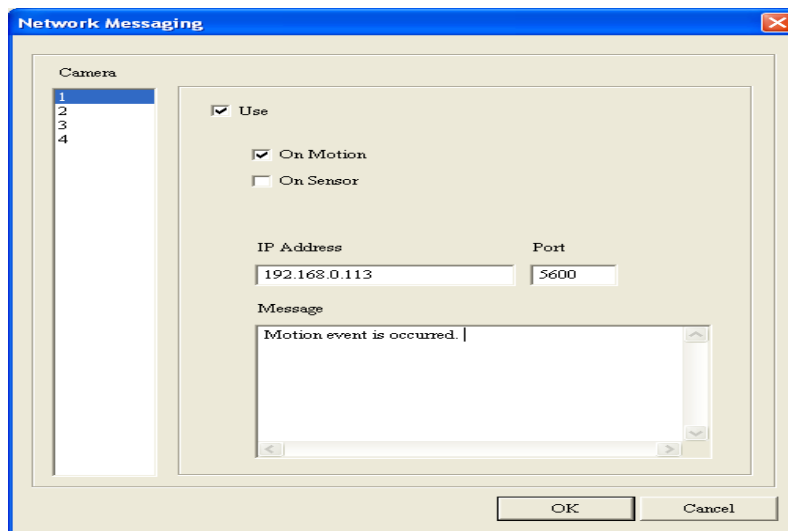
: Select this option to modify an account that has already been defined.

3.11. Plugin

This is User SDK for integration into other software packages, such as access control.



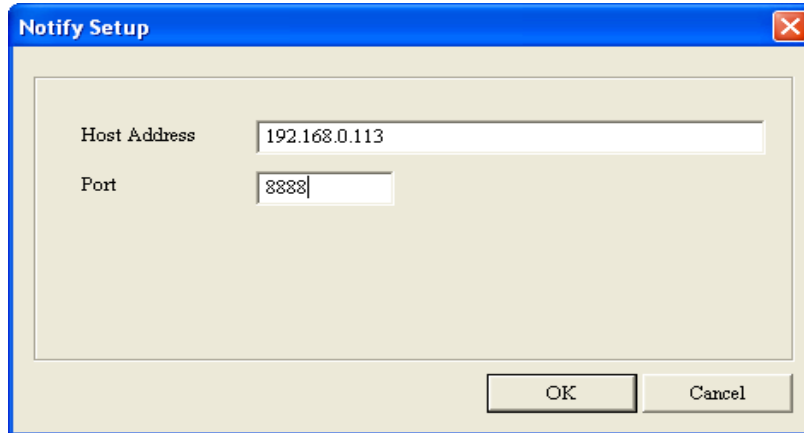
- 1) BMS1 : When motion or sensor event is detected, It will send a message to particular Server. You can edit source code of NetMsg.dll. We support the NetMsg SDK.



- Camera : Camera no
- Use : If you want to send a message, check "Use"
- On Motion : Motion Event
- On Sensor : Sensor Event
- IP Address : Enter the IP address of the specific server to notify.

- Port: Enter the Port of the Server.
- Message: Enter the message you want to send.

2) NNEvent : Send a jpg image to particular Server. You can edit source code of NotiEvent.dll. We support the NotiEvent SDK.



- Host Address: IP address of particular Server
- Port : Port of particular Server

3) SaveJPG Project : The user can get current jpg image from each camera using an application programmed through httpsvr.exe You can edit source code of SaveJpg.dll. We support the SaveJPG SDK.

4. PLAYBACK (DVR Search)

To play back the recorded video, execute the search program (at the bottom of the main screen).

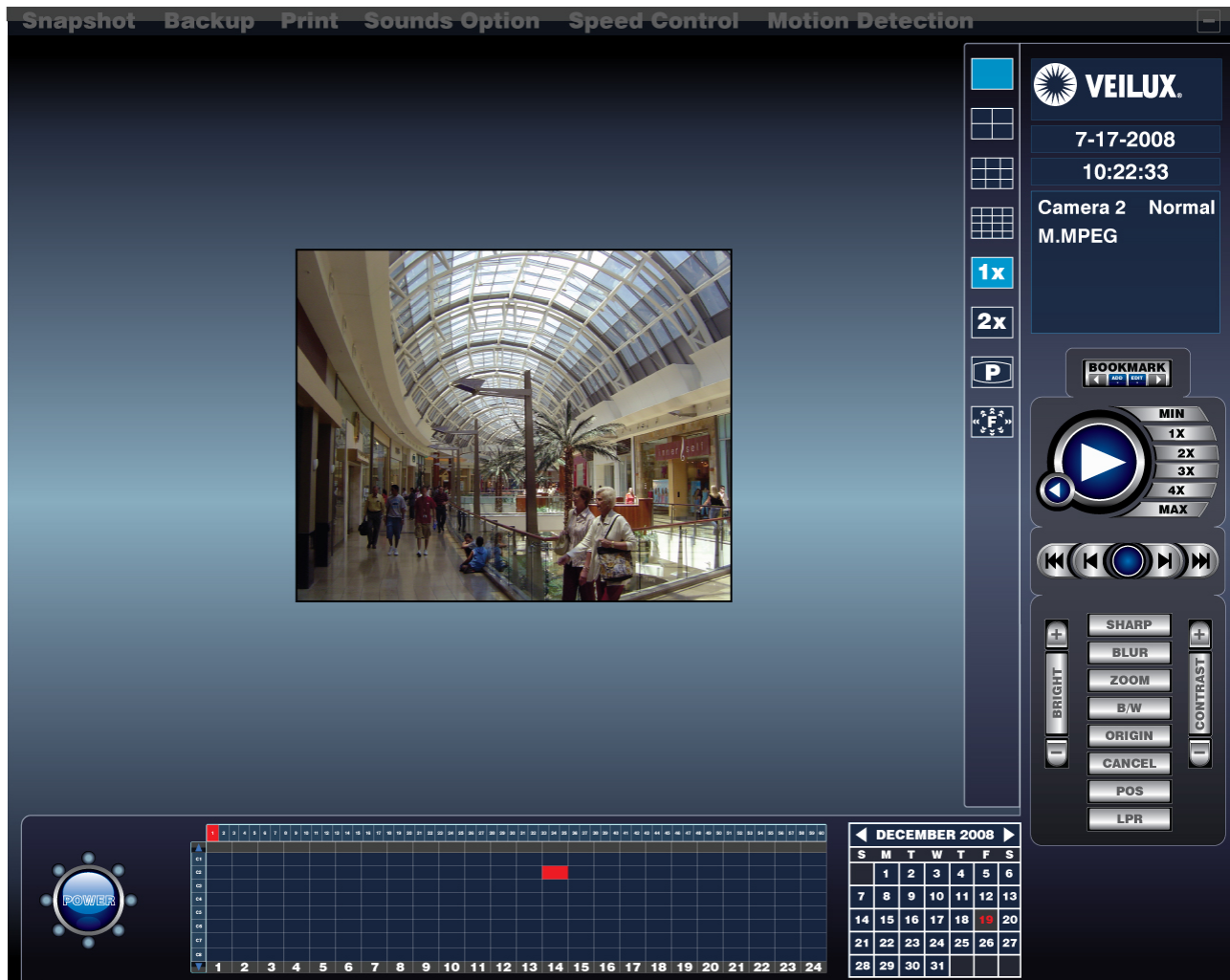


Enter an Account ID and password, then click “OK” to start the Search program.

A green dialog box with a white border. At the top, it says "Insert your account and password!". Below this, there are two input fields. The first is labeled "Account" and contains the number "1". The second is labeled "Password" and is empty. To the right of the password field is a small keyboard icon. At the bottom of the dialog, there are two buttons: "OK" and "CANCEL".










4.1. PLAYBACK Default Screen

: A new PLAYBACK window will be displayed as follows;



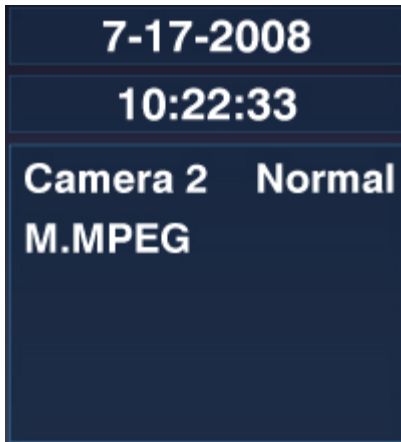
4.1.1. Screen Mode Icons

: Beside the capture image, there are 9 different display type buttons.

- : Single-Screen-Mode: Display the recorded video from one camera,
- : Multi-Screen-Mode: Display 4 the recorded video from 4 different cameras
- : Multi-Screen-Mode: Display 9 the recorded video from 9 different cameras
- : Multi-Screen-Mode: Display 16 the recorded video from 16 different cameras
- : Panorama-Mode: Views sequential still images from one camera.
- : Regular-Size-Mode: Recorded video will be displayed the same size as the captured image.
- : Double-Size-Mode: Recorded video will be displayed 2 times larger than the captured image.
- : Full-Screen-Mode: Playback the video in full-screen. Controls still appear.
- : Min-Screen Mode: Minimize the Window.

4.1.2. Status Information Window

: This window will show the status of displayed video and captured time information.



- Date and Time information of the captured image.
- Camera Number.
- Recording mode used.
- Type of Image compression used.

4.1.3. Calendar Window

The calendar represents the dates when video is recorded. If the color of a date is RED, there has been video recorded on that date, otherwise the dates will be black if there is not recorded data.

When you click on a specific date, the Record Table (Section 4.1.7) will show what data has been recorded that day.

◀ DECEMBER 2008 ▶						
S	M	T	W	T	F	S
	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			

- Month and Year
- Left Arrow: to move to the previous month, click this button.
- Right Arrow: to move to the next month, click this button.

4.1.4. Image Control Menu

: You can modify the captured images using these controls.



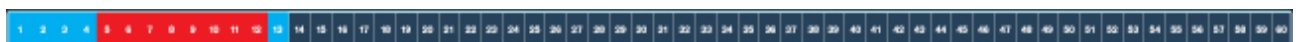
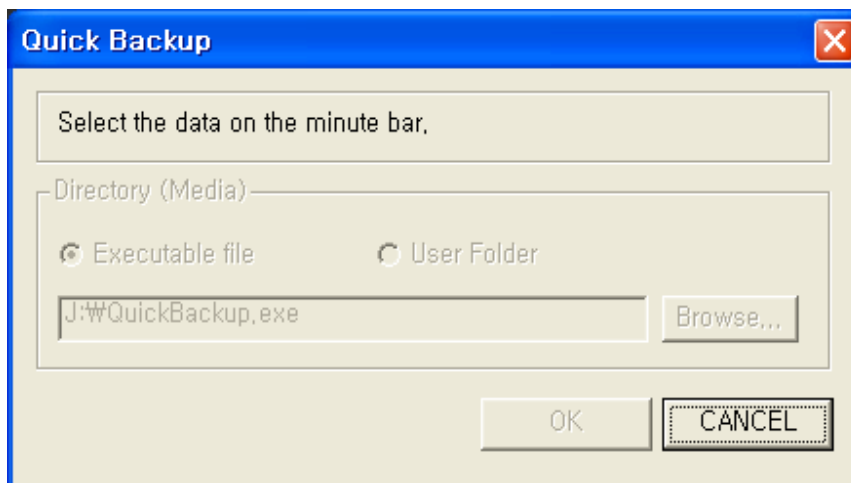
- SHARP: control the sharpness of the captured image
- BLUR: control the blur of the captured image
- ZOOM: zoom into a specific area of the captured image
If you select a specific area of the image, the selected area will be maximized in the window.
If no select, the image will be enlarged each 10% per clicking based on the center.
- B / W: convert the image to black & white
- ORIGIN: goes back to the original image
- CANCEL: cancel previous commands one by one
- BRIGHT: control brightness -/+
- CONTRAST: control contrast -/+

4.1.5. Utility Menu

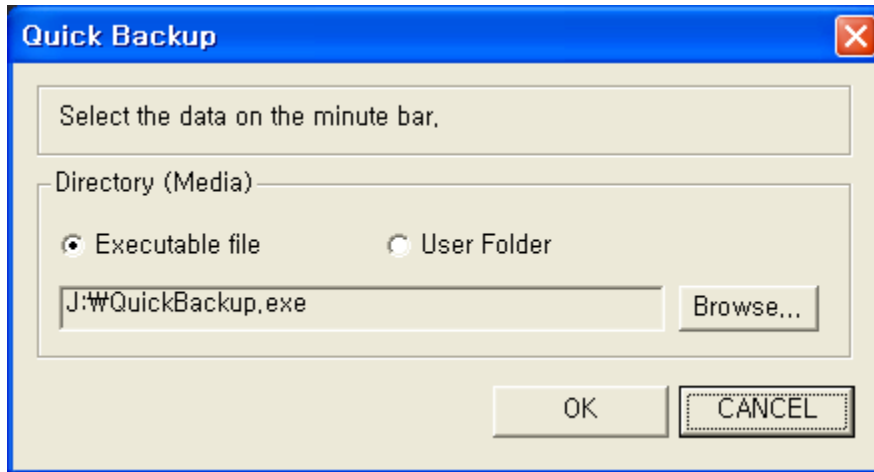
: Control the speed, save images or video, and print the displayed image.



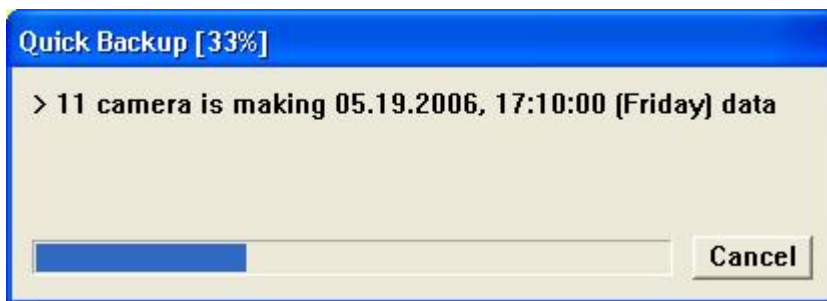
- **Snapshot** SAVE: Save captured images or back up specific video to AVI files.
- **Backup** QUICK BACKUP: Backup Data quickly to CD (requires Nero CD software).



- Select the data on the minute bar by dragging, and then the following window will be activated.



- Directory (Media): Files saved from backup the application will be put into the folder you specify here. The default is your CD/DVD Drive.
- If you choose the executable file option, the player will be written with the video for easy distribution to other computers that do not have the DVR software on them.



- **Print PRINT:** Prints out the current image on the screen. Note: The size of the image displayed (i.e., 1x or 2x) makes a difference on the size of the image printed.
- **Sounds Option SOUND:** Adjusts play back volume.
- **Speed Control SPEED:** Adjusts play back speed

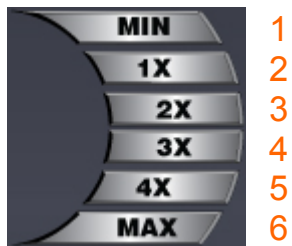
4.1.6. Play Menu

: The controls select forward, backward, play and stop.



-  The first image
-  Backward one image frame:
-  Stop
-  Forward one image frame
-  The last Image
-  Backward Play
-  Forward Play

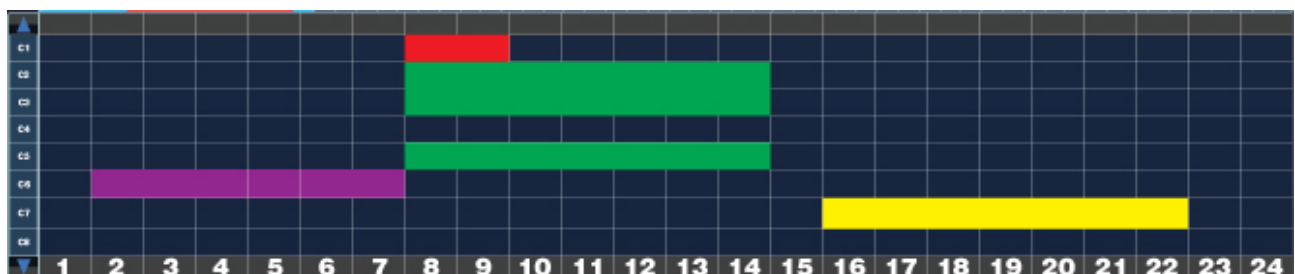
Speed Bar



1) Min Speed, 2) 1/2x Speed, 3) 1x Speed, 4) 2x Speed, 5) 4x Speed, 6) Max (skips frames)

4.1.7. Record Table

When you select a Date from the Calendar, system will show the recording information below the video screen.

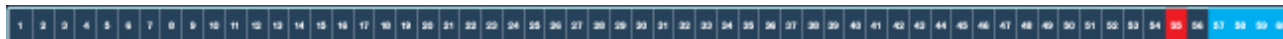


- Camera: C1, C2, etc. represents the camera number chosen.
- Time Cell: show time zone for 24 hours (00 to 24)

* The color of the cell represents the type of recording that the system made. Darker versions of each color mean that audio was recording during that time.

4.1.8. Record Table (Minutes Bar)

: When you select a time from the Record table, the system will show the minutes of that hour (0 to 60).







4.1.9. Exit Button

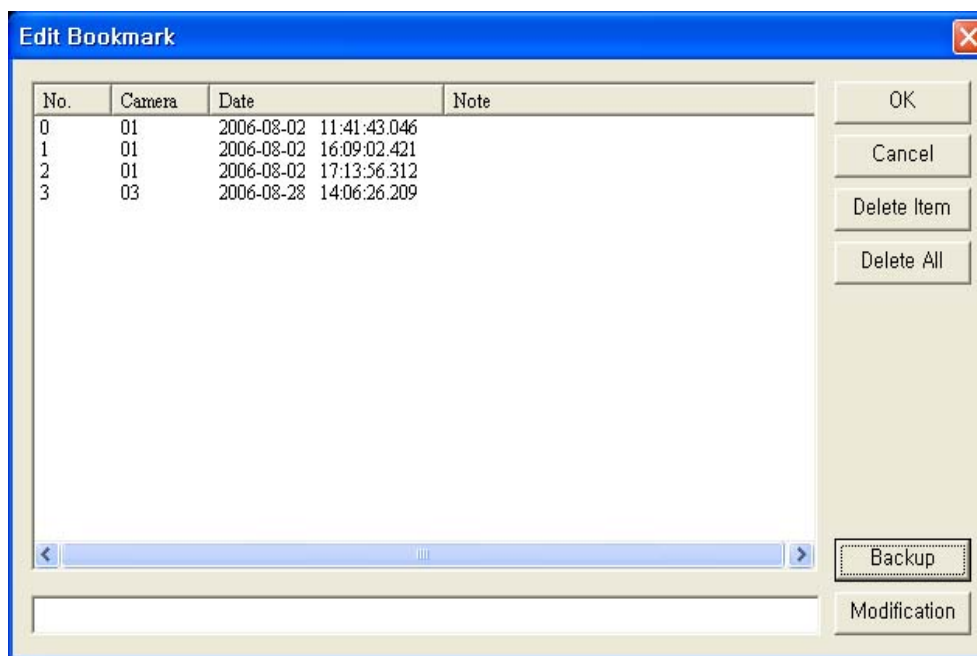


: Select this to exit from the playback screen.

4.1.10. Bookmark

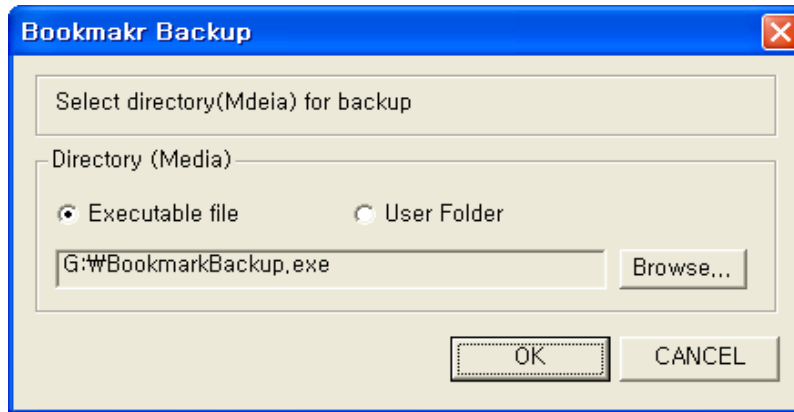
: You can make a bookmark of selected images for reference or review later. This does not save the data and the video drops off in the normal course of recording if not saved.

- 1)  : Review previous bookmarked images.
- 2)  : Review next bookmarked images.
- 3)  : Make a bookmark for an image on the playback screen.
- 4)  : List the current active bookmarks. The following screen will appear:



- OK: Select and view an active bookmark.
- Cancel: Cancel the list of bookmarks.
- Delete Item: Delete selected item.

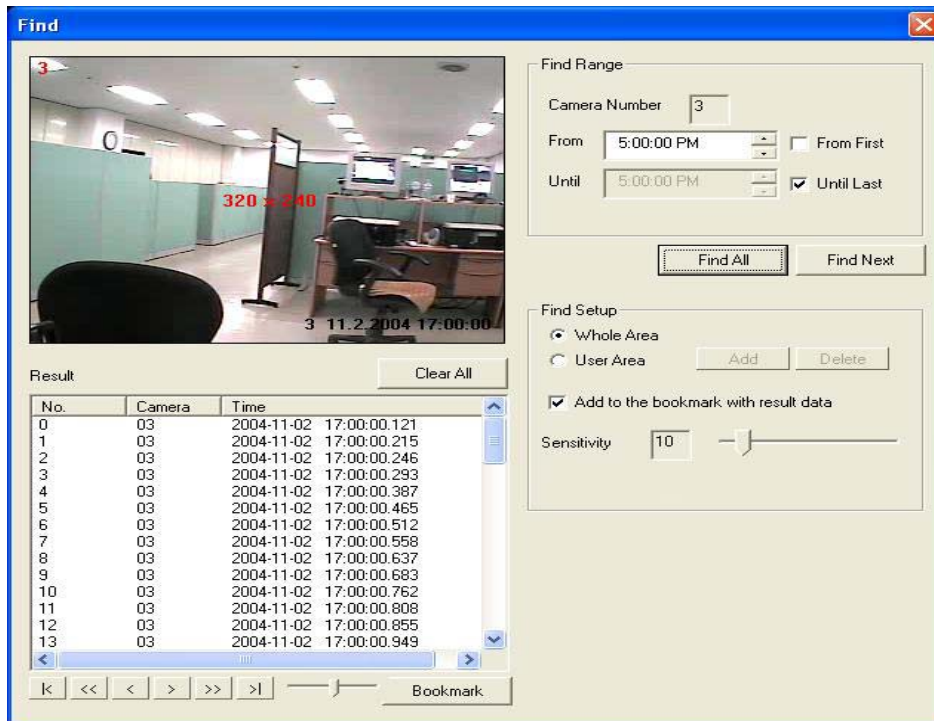
- Delete All: Delete all items.
- Backup: Save a copy of the selected bookmark.
- Modification: Add a note for the selected item.



- Directory (Media): Files will be saved to this folder. (default = CD/DVD Drive)

4.1.11. Motion (Object) Search

: You can set a section of video for motion detection based on existing recorded data, and search for data within that area (object search). Click the **Motion Detection** button and the following window will pop up.



1) Find Range

- Camera Number: Select camera number.
- From: Start time.
- Until: Finish time.
- From First: Selects from the first minute of recorded data that day.
- Until Last: Selects to the last minute of recorded data that day.

2) Find Setup

- Whole Area Mode: Motion will be searched in the whole area.
- User Area Mode: Motion will be searched in the area you define.
- Add: Use this to define an area for searching. Click the "Add" button, and then drag an outlined square around the area you want to search. More than one area can be defined.
- Delete: Used to delete defined areas that you do not want.
- Add to the bookmark with result data: Check this box to store the images as bookmarks, automatically.
- Sensitivity: Define the Rate of Sensitivity (the default value is 10%). A lower percentage is more sensitive.








3) Find All: Find all image data during setting time.

4) Find Next: Find image by image.

5) Clear All: Clear bookmarks for all items.

6) Bookmark: Make a bookmark for selected items.

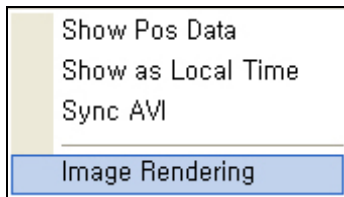
7) Search result

- : Move to first item.
- : Move to previous item.
- : Move to previous item in sequence.
- : Move to next item in sequence.
- : Move to next item.
- : Move to last item.
- : Adjust the speed.

4.1.12. Search selected cameras only on playback

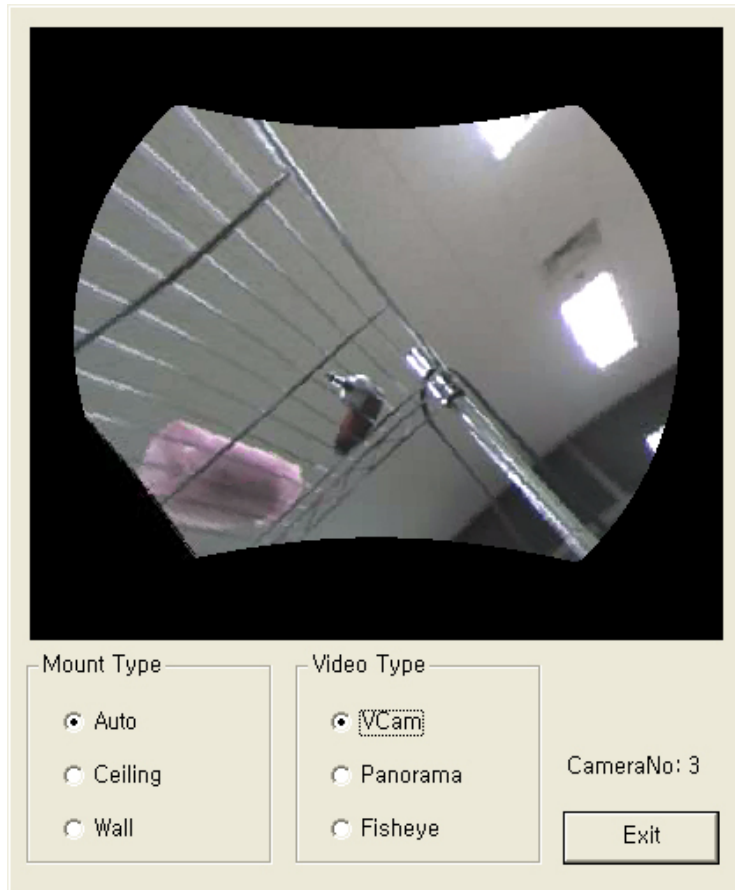


If you want to search certain cameras only, you can add or remove the cameras by right clicking in the time table. You can also drag cameras in the display screen to arrange them in any order.



- Show Pos Data: If you want to see Video and Pos data embedded, check "Show PosData"
- Show as Local Time: If you want to search to get local time, check this function.
- Sync AVI: If you want to save image synchronize with time, click Sync AVI. This method has dump images to synchronize with time. So if you don't want it, don't check.

- Image Rendering: If you use Grandeye IPCamera, you can control this function. This function allows fisheye image to be rendered as VCams(Virtual camera) or panorama views



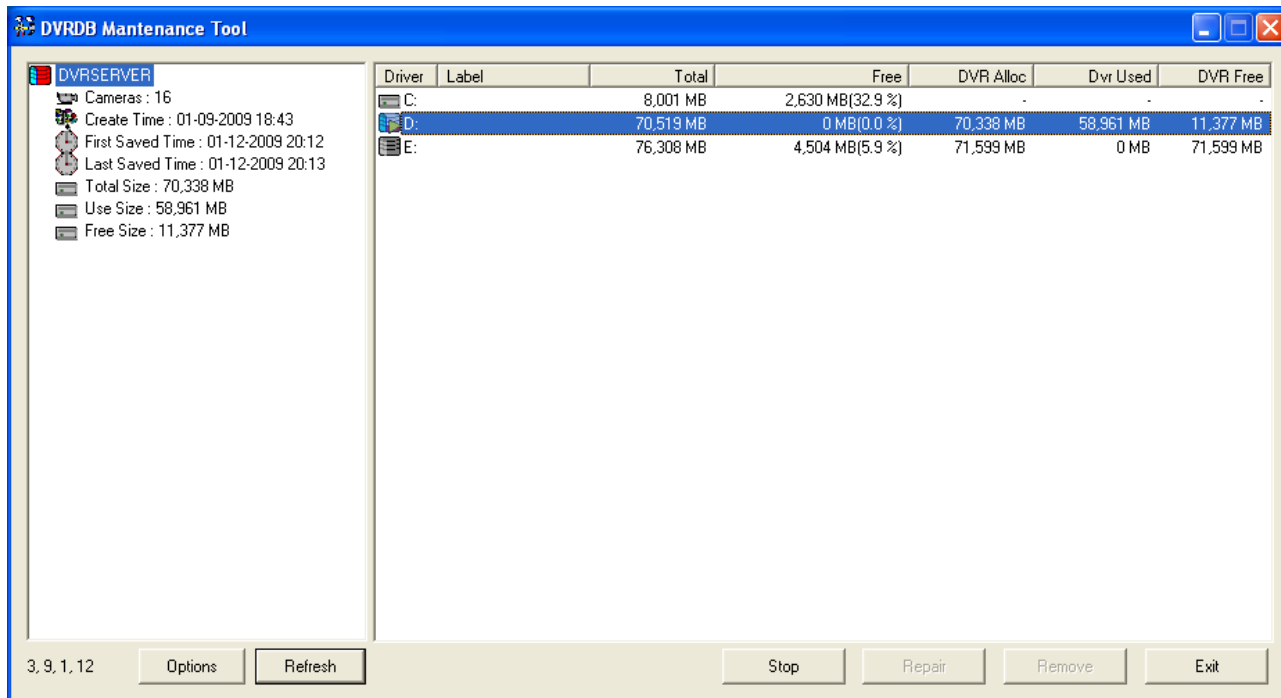
- You can control the size of this dialog.
- Mount Type:
 - Auto:
 - Ceiling:
 - Wall:
- Video Type
 - VCam: VCams can be retrospectively panned, tilted and zoomed in the same way as an ordinary motorized dome camera but do not suffer from the same limitations.
 - Panorama: Panoramas are rendered as two 180 degree views.
 - Fisheye: Fisheye views allow the camera images to be seen without geometric processing, but with the option to zoom and pan.
- CameraNo: Number of camera that you are searching.

5. PLAYBACK (using Removable HDD)

In some cases, you may want to remove the original hard drive and play it back in another PC (sometimes the courts may require the original drive as evidence).

5.1. Export Data (DVR Side)

1) Run the FsUtil.exe utility: (Start->Programs->DVR->Main->File Manager) and click "Stop".



2) Moving POS Data.

If you have to move POS data, Set the POS save Directory on the Removable Hard disk.

You can set the POS save Directory using setup Dialog(Setup->Transactions->Save Directory)

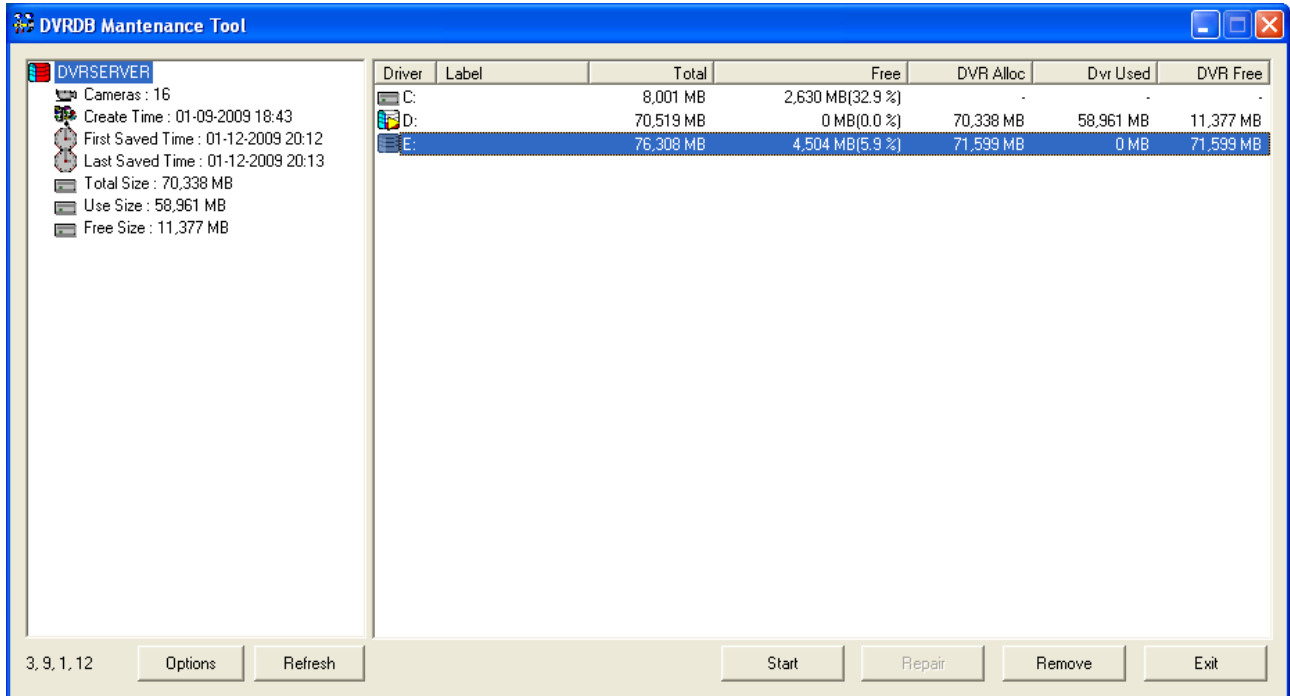
For Example if you set the video DB on the D:\ Drive, Set the POS Save Directory on D:\ Drive too.
Then POS data is exported with video data, and you can search the POS data on third PC.

5.2. Import (3rd PC Side)

1) Install the Playback program from provided on the CD. (CD\Playback\DISK1\setup.exe)

* Note: You need to install the imported hard drive in the 3rd PC first. Please follow the steps below to import a hard drive.

2) Run FsUtil.exe. (Start->Programs->Playback-> Main->File Manager) and click "Start".



3) Run Search.exe (Start->Programs->Playback-> Main->Playback). You can now search the imported DB.

Snapshot Backup Print Sounds Option Speed Control Motion Detection



VEILUX.

7-17-2008

10:22:33

Camera 9 Normal

MPEG

1x

2x

P

BOOKMARK

MIN

1X

2X

3X

4X

MAX

SHARP

BLUR

ZOOM

B/W

ORIGIN

CANCEL

POS

LPR

BRIGHT

CONTRAST



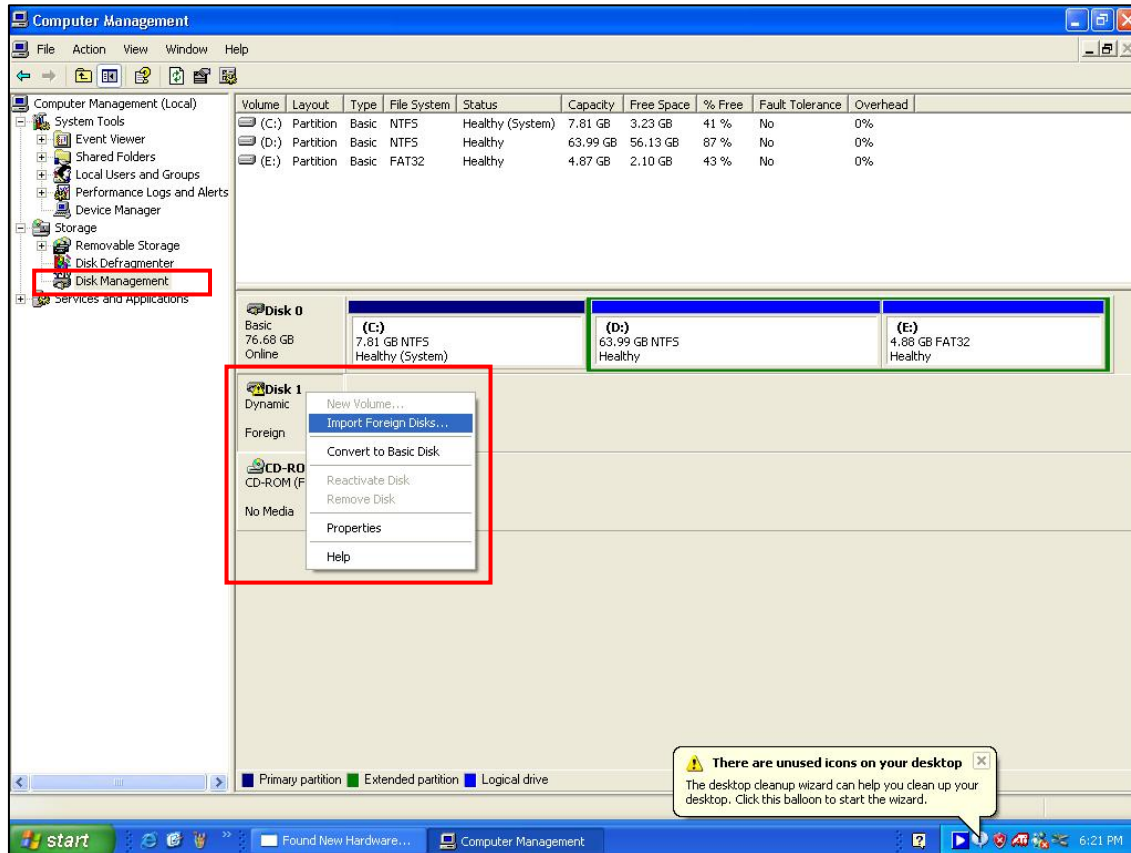
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

DECEMBER 2008

S	M	T	W	T	F	S
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			

< Installation of An Imported Hard Drive >.

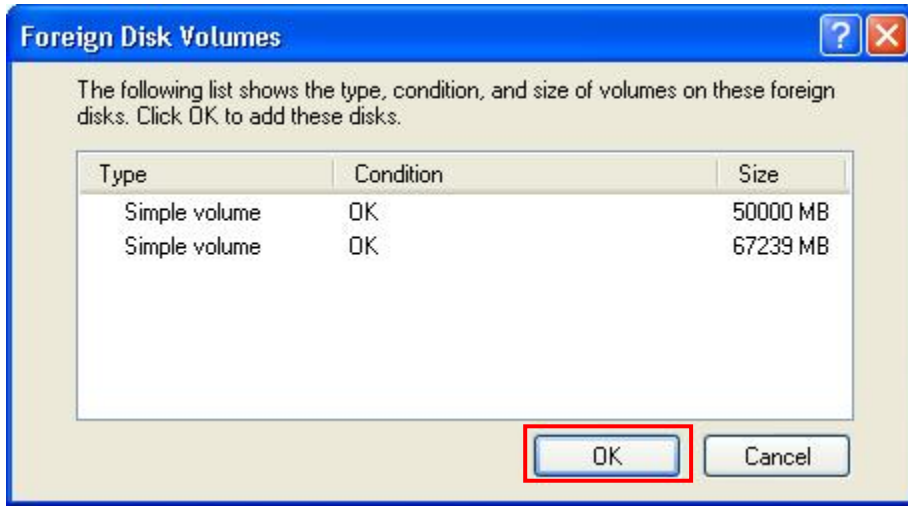
1) Right click on “My Computer”->Manage->Computer Management->Storage->Disk Management (select). Place your mouse on the “Disk 1” as below and right click to choose ->Import Foreign Disks.



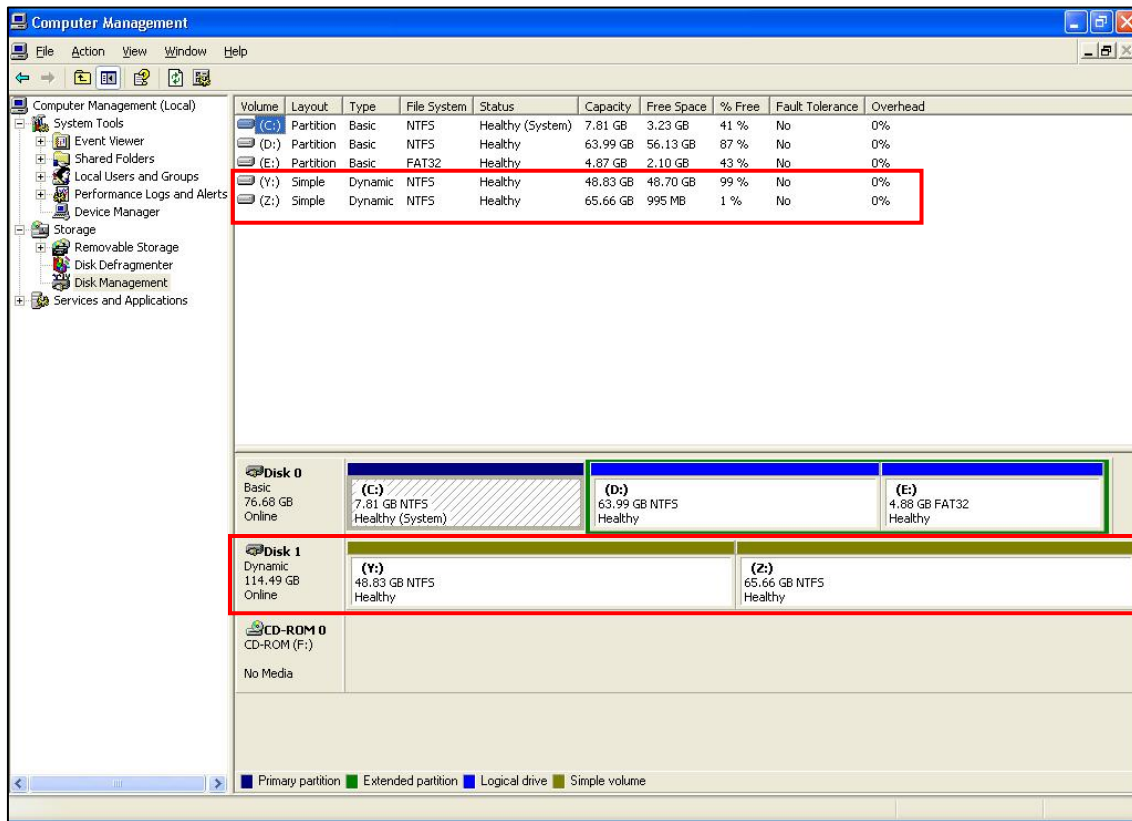
2) Select “Disk group” as below and click “OK”.



3) After checking the disk volumes information as below and click “OK”.



4) The hard drive is added into the system.



5.3 Import (3rd PC Side) – Using DVR Program

- 1) You can Import exported disk on the DVR system, but the DVR system will need to be changed to a Playback System. Run the “dvr_playback.reg” (included on the installation CD) to modify registry value of DVR system. After executing the file, the DVR System operates as a Playback System.
- 2) Execute the FSUtil.exe and import the removable disk.(See section 5.2 Import – Using Playback Program)
- 3) You can now playback exported video data using your PC.
- 4) If you want to playback POS data, set the POS save directory the same as the directory it was exported from. For example, If POS data exists on the D:\POSDATA, set that directory as POS save directory. You can set POS save directory using SETUP dialog. (Setup.exe->Transactions->Save Directory).

6. Remote Surveillance

6.1. Start Remote Program (Single Mode)

To use the remote service from a remote site, install the “DVR Remote” program. Once installed, start the program from the Windows Desktop, or run the DVRHost.exe program in C:\Program Files\DVR\Remote folder.

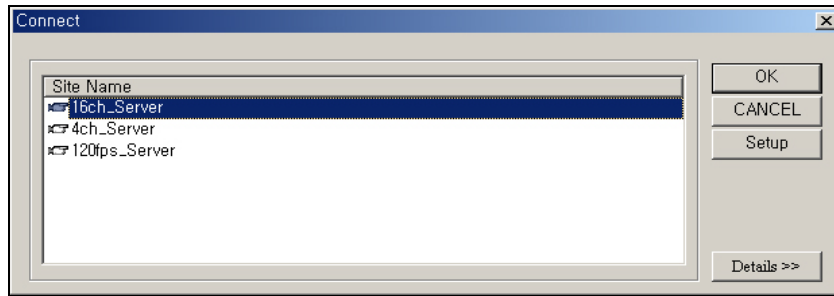


6.2. Connect Main System

The first screen of DVR Remote program is nearly the same as the DVR Main screen. The Remote Screen also has the “CONNECT” and “DISCONNECT” buttons as follows:

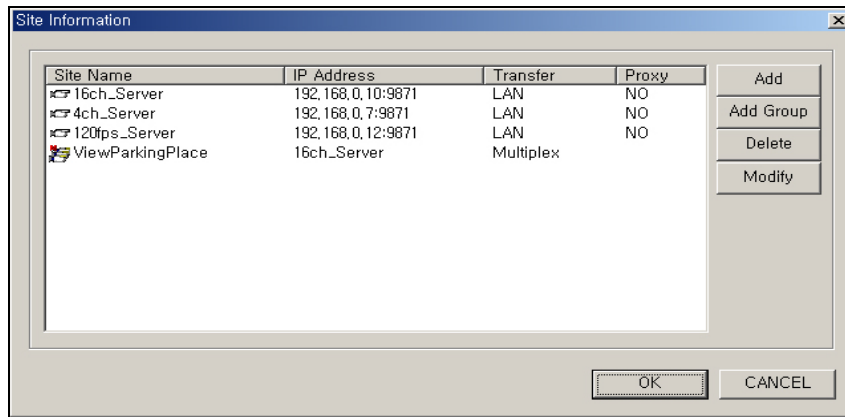


Click the “Connect” button to display the connection dialog box with the list of established servers. From here, you can connect to the site of your choice. After selecting the Site, click “OK” to start the remote session. If this is the first time to using the Remote program, you will need to setup the Site first.



6.3. Setup Site

Click the “Setup” button from the Connect window, and the Site Information Window will be displayed as follows:



- 1) Click the “ADD” button, for the Site Information window:

- Site Name: Enter a descriptive site name – you can define any name you can recognize easily.
- IP Address: Enter the IP address of the site.
- Port: Enter TCP/IP Port number, the default port number is “9871” and typically does not need to be changed
- Use Auto Logon: You don’t need to logon every time you try to connect to DVR,
- Account: Enter a account of DVR you register.
- Password: Enter a password of DVR you register
- Network: If you use dial up modem, check “Modem, ISDN” and enter the phone number, Windows user ID and password for the DVR server.

2) Add Group

You can use the “Multi-Channel” connection to make a grouping of multiple servers and cameras that you want to connect to by the remote surveillance program. When you click “Add Group”, you will see following window and can make your own group from a list of available servers and cameras.

Screen	Site Name	IP Address	Camera
1	16ch_Server	192.168.0.10:9871	10
2	16ch_Server	192.168.0.10:9871	3
3	4ch_Server	192.168.0.7:9871	4
4	16ch_Server	192.168.0.10:9871	9
5	16ch_Server	192.168.0.10:9871	5
6	120fps_Server	192.168.0.12:9871	11
7	4ch_Server	192.168.0.7:9871	2
8	16ch_Server	192.168.0.10:9871	7
9	16ch_Server	192.168.0.10:9871	11
10	120fps_Server	192.168.0.12:9871	12
11	4ch_Server	192.168.0.7:9871	1
12	120fps_Server	192.168.0.12:9871	3
13	16ch_Server	192.168.0.10:9871	15
14	120fps_Server	192.168.0.12:9871	14
15	4ch_Server	192.168.0.7:9871	3
16	120fps_Server	192.168.0.12:9871	2

3) Delete

Click on any Site that you want to delete from the list, and then simply click the “Remove” button.

4) Modify

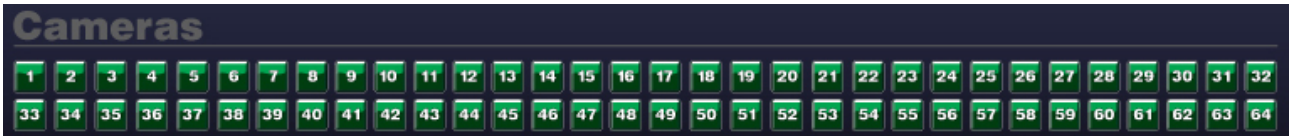
From the Site Information Window, Click any site from the list that you want to modify, and click the “Modify” button. You can then modify any information attributes in the window, except the Site Name. To change the Site Name, you must delete the site and re-add it with the correct name.

6.4. Remote Navigation



1) Action Buttons
















- **Remote Playback** R. PLAYBACK “Remote Playback”: Used to search recorded images from Server DVR. When you click the R. PLAYBACK button, the Playback window will be displayed and operate the same as Main DVR’s Playback Menu. **(Note the action button Backup. If you click this icon during the remote search, the icon will change to green and the transmitting images will be recorded at your PC).**
- **Setting** SETTING: Configure any of the system parameters on the DVR from the Remote system. By clicking the SETTING button, the Setting Menu window will be displayed and operates the same as Main DVR’s Setting Menu.
- **Local Playback** L.PLAYBACK “Local Playback”: Searches the recorded images from local client system. By clicking the L. PLAYBACK button, the Playback window will be displayed and operates just like the Main DVR’s Playback Menu.
- **Disconnect** DISCONNECT: Disconnects the current session.



2) You can turn on or off individual cameras by right clicking on the camera button at the bottom of the screen.

3) Screen Mode Icons

There are 14 different display type buttons as follows:

- : Single-Screen-Mode
- : 4-Channel Multi-Screen
- : 6-Channel Multi-Screen
- : 9-Channel Multi-Screen
- : 10-Channel Multi-Screen
- : 16-Channel Multi-Screen
- : 25-Channel Multi-Screen
- : 32-Channel Multi-Screen
- : 64-Channel Multi-Screen
- : Full-Screen Mode
- : Next-Screen Mode
- : Auto-Rotation Mode
- : **Backup**: Local Save: Clicking on this icon will be change the icon to green and the remote system will record the transmitting images from server onto the remote PC system.
- : Minimize the Window.
- : Relay Control: Control the 4 relays directly over network.



: Relay Off : Relay On

4) System Status Window

: System Status Window shows the status or events from the DVR system.



- Sever name: Displays the name of the remote site.
- Transmission speed: Displays the transmission speed of system.

5) Pan/Tilt/Zoom Control Box

: If a P/T/Z camera is installed, you can control focus, zoom, pan, tilt and other functions through this control box.




6) Camera arrangement on the live view.

By left clicking and dragging cameras on the screen, you can arrange the camera format to any sequence you wish.

Camera Information

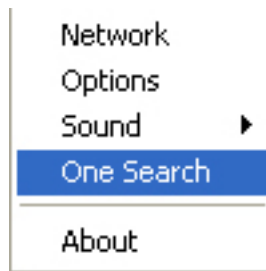
: Click this button to show camera information from the DVR



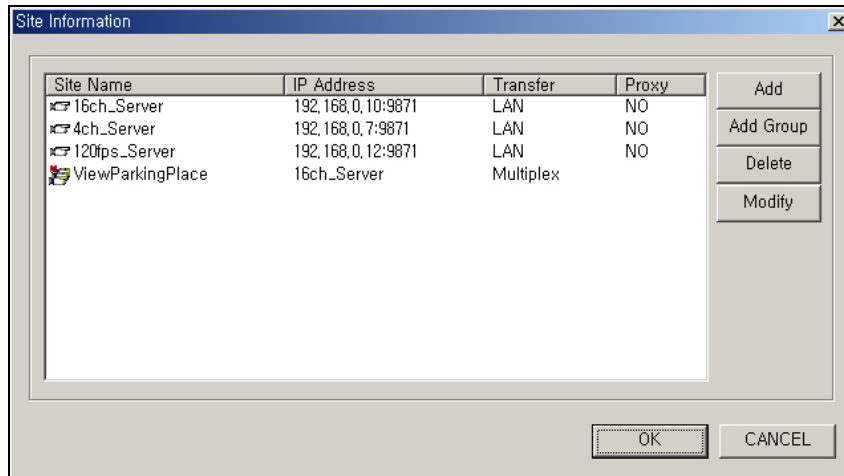
A dialog box titled "Notify Camera Info" with a blue title bar and a close button (X) in the top right corner. The dialog contains several text input fields arranged in two sections. The first section includes fields for "Site Name" (value: hong), "Camera No" (value: Camera 1), and "Camera Name" (value: Camera 1). The second section includes fields for "Contact Person" (value: miss), "Contact Tel" (value: 215-4565), "Contact Address" (value: city), "Contact E-mail" (value: test@test.com), and "Special Instructions" (value: Please, Contact me). An "OK" button is located at the bottom right of the dialog.

6.5. Options

Right click the mouse button on any screen to bring up the options menu as seen below.

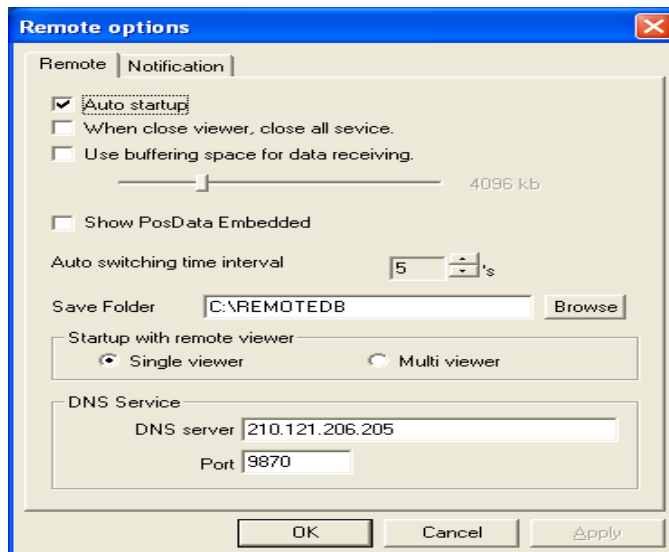


1) Network: Click on the Network option to bring up networking site information (refer to section 5.3, "Setup Site")



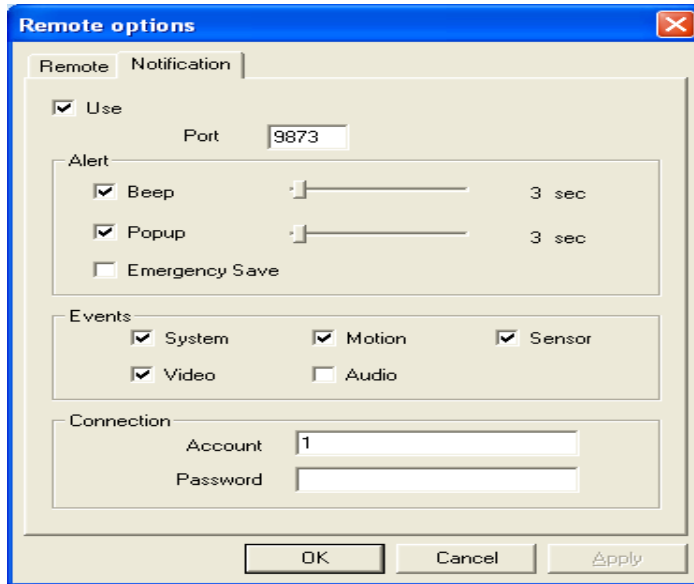
2) Options: Click the Options menu to display the following window:

Remote Tab: Sets the viewer mode when starting or closing.



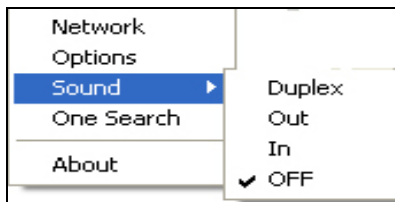
- Auto startup: Select this option to have the system to begin with windows.
- When close viewer, close all service: Check this box to close all services when the remote viewer program is shut down. This shuts down the resident program, which allows incoming alarm notifications.
- Use buffering space for data receiving: If you use a LAN for receiving video, you can use the buffering space to speed up the transfer. (Recommended setting is 4096KB)
- Show PosData Embedded: If a user selects this check box, Video and POS data is displayed as an overlay. If it is not selected, the data will be recorded, but not viewed on the video screen.
- Auto switching time interval: This sets the automatic display switching time (unit = seconds – default: 5sec, max: 30 sec)
- Save Folder: You can select a folder for saving image.
- Startup with remote viewer: Select start mode for the remote program – either single or multi.
- DNS (Dynamic IP) service: refer to Section 9 (DNS Service)

2-2) Notification Tab:



- Use: Enable the PC to receive data from the remote DVR
- Alert
 - Beep: Creates and audible notification on incoming data.
 - Popup: Pops up video from an alarmed event on server.
 - Emergency Save: When remote notification is activated, the remote PC will backup the transferred video automatically. The action icon will turn green **Backup**. If you click the action icon while it is green color, the remote backup will stop.
- Events: You can select the events which are applied to remote notification.
- Connection: If you save the Account ID and password, you can access systems without a separate login during remote notifications (recommended).

3)Sound: Select the Sound option to see following sub–menu. This allows you to send, receive, or activate two way audio communications between the server and remote sites.



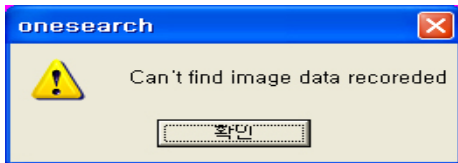
- Duplex: Enables two way audio
- Out: Send audio data to the server (requires a local microphone).
- In: Receive audio from the server (requires connected speakers).
- Off: No use audio.

*Note: When you use the Multi Remote Monitoring viewer, you can use the two way audio mode only on the active server.

4) OneSearch :



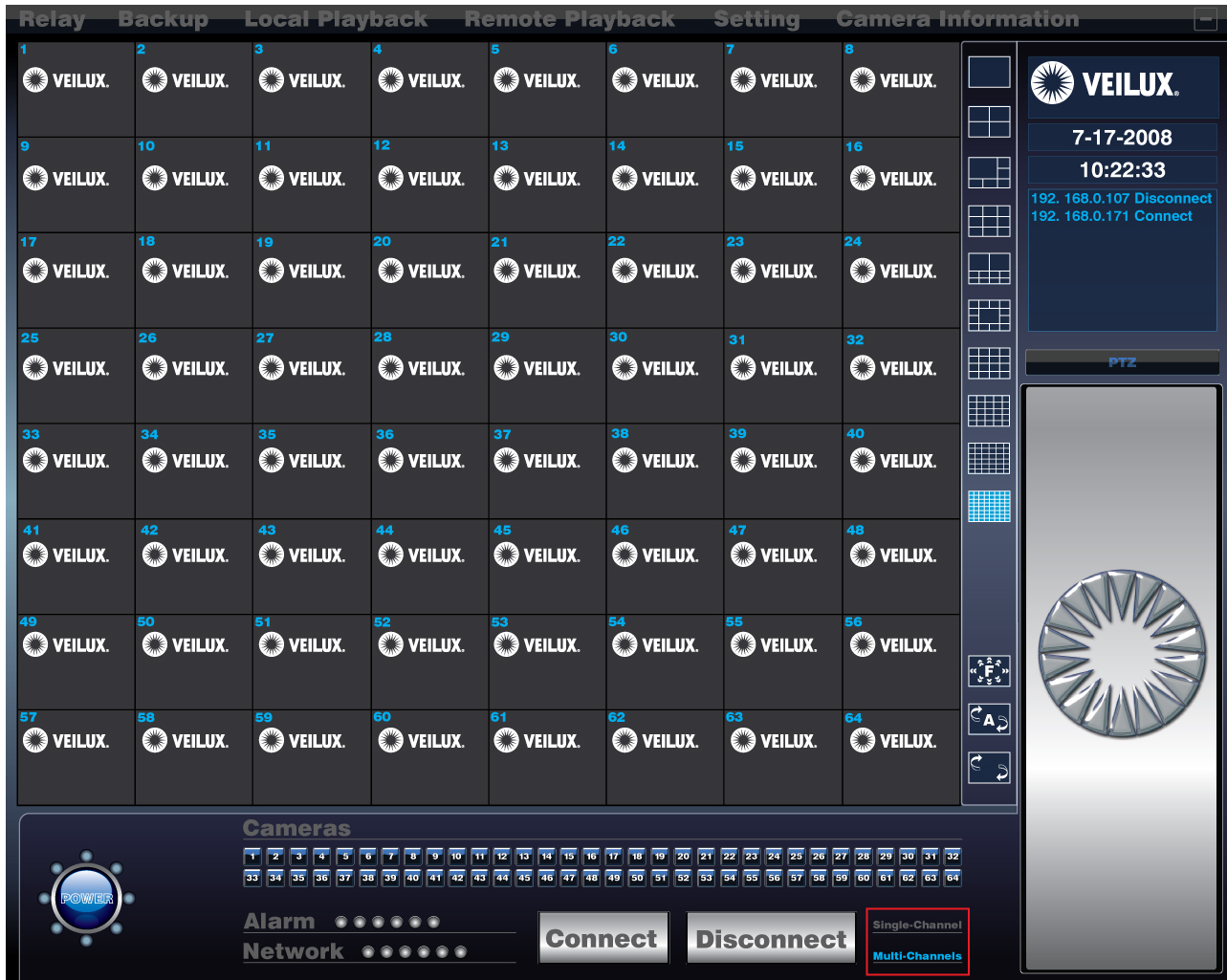
Exit: Exits the One Search screen



If there are no image recorded, it will be displayed this message box.

6.6. Multi Remote Monitoring

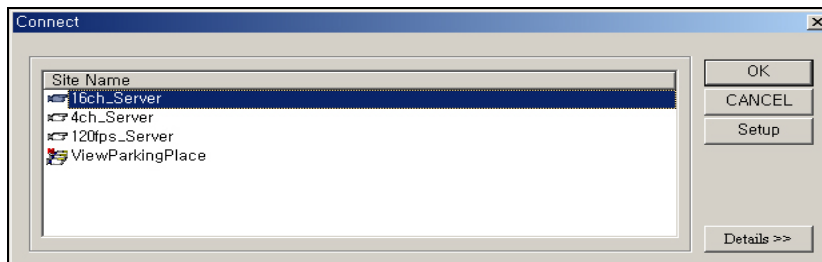
After run Remote program, if you select Multi Channel from the bottom of the screen, you can monitor multiple cameras installed at the different server locations. (up to 64).



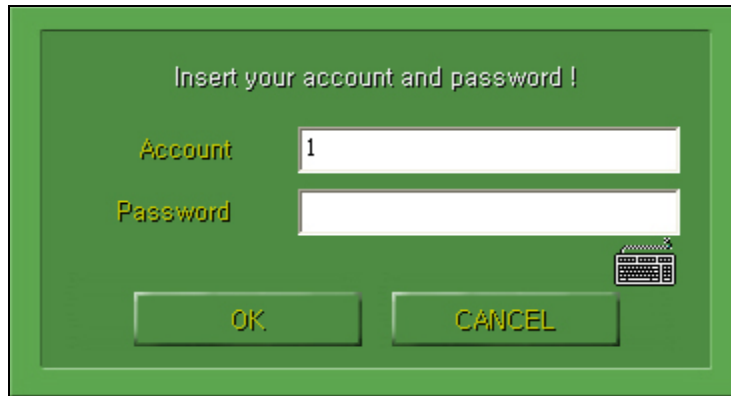
- Single: One remote PC able to connect with one DVR server.
- Multi-Channel: One remote PC able to connect to multiple cameras and DVR servers.

1) Connection to Servers

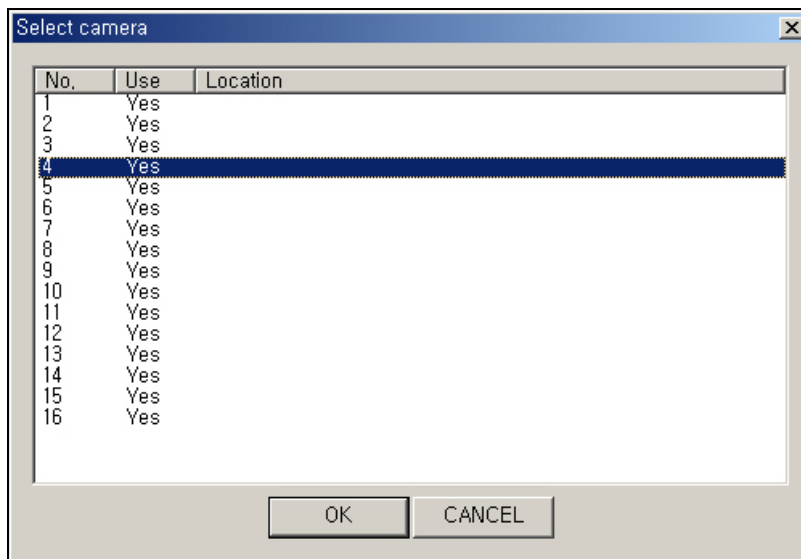
Each camera window can display a camera from any server. First, choose the window to which to view the camera in, “connect” while in Multi channel mode, and select the server you want to connect to. Then choose the camera number you want. You will need to do this for each window. You can define groups of camera in the Group Add section under Setup.



Insert ID and password for the server to be connected.



After logging on, the system shows the following window, displaying the available cameras from the chosen server. Simply select the desired camera to monitor.



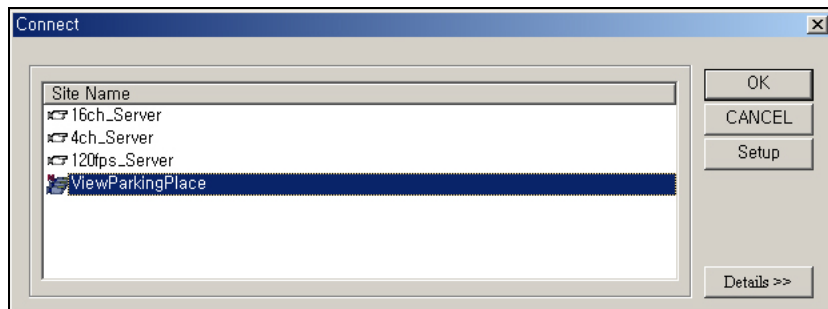
Once the connection is established, you will see the video on the No.2 screen of client.



You can connect other channels by repeating the process the same as above.

1-2) Using the Group connect

When you select "Multi-Channel" and click "CONNECT", you will see the following window. Select the desired group from group table and click "OK".



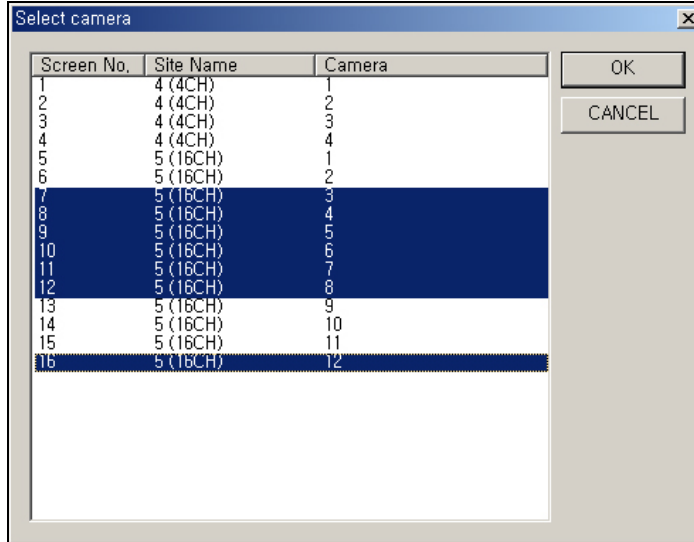
2) Action Button

Local Playback **Remote Playback** **Setting**

- **Remote Playback** R. PLAYBACK “Remote Playback”: Used to search recorded images from Server DVR. When you click the R. PLAYBACK button, the Playback window will be displayed and operate the same as Main DVR’s Playback Menu. **(Note the action button Backup. If you click this icon during the remote search, the icon will change to green and the transmitting images will be recorded at your PC).**
- **Setting** SETTING: Configure any of the system parameters on the DVR from the Remote system. By clicking the SETTING button, the Setting Menu window will be displayed and operates the same as Main DVR’s Setting Menu.
- **Local Playback** L.PLAYBACK “Local Playback”: Searches the recorded images from local client system. By clicking the L. PLAYBACK button, the Playback window will be displayed and operates just like the Main DVR’s Playback Menu.

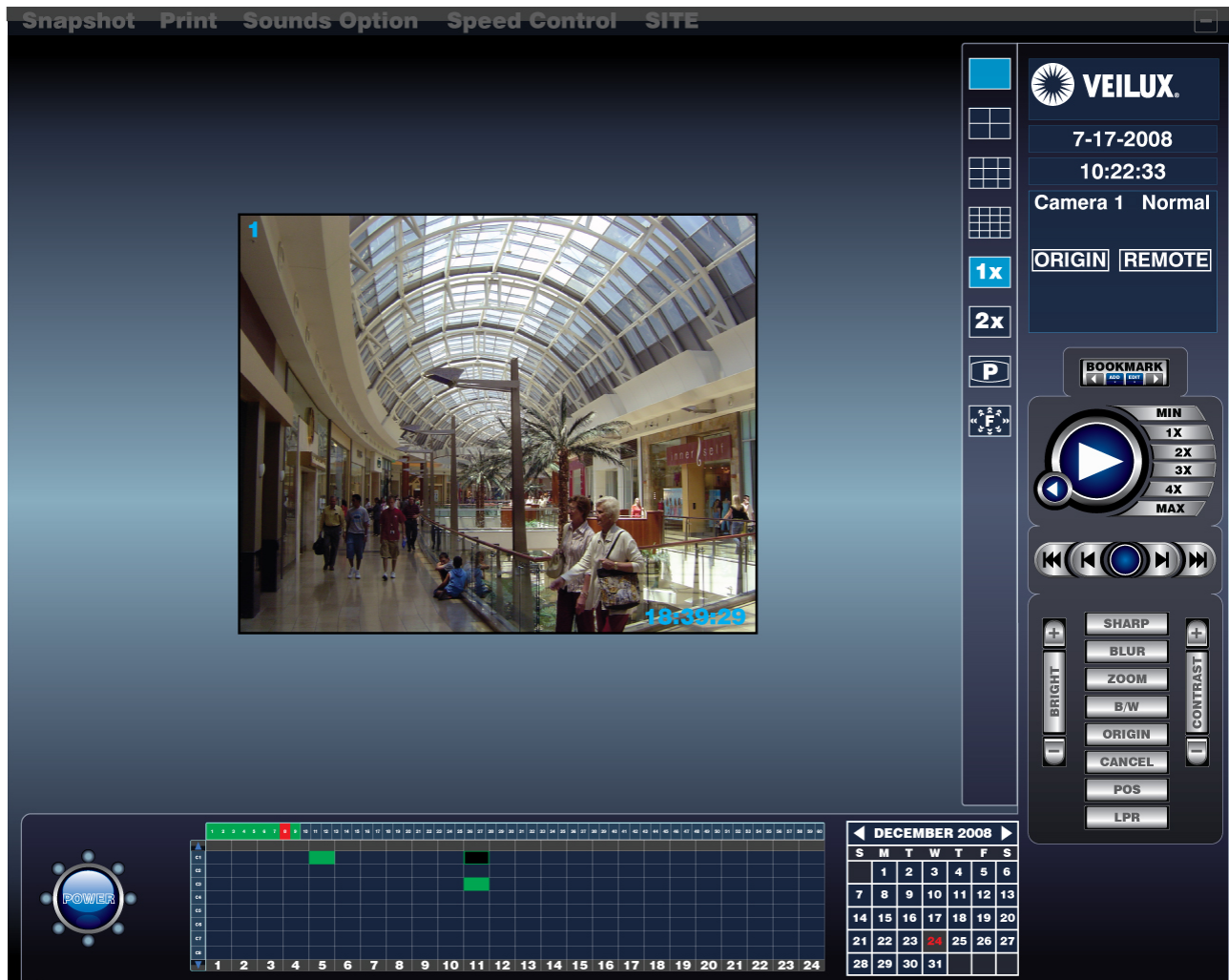
Disconnect

- **DISCONNECT**: Disconnects the current session. The following window will display, and then select the desired camera(s) to disconnect and click “OK”.



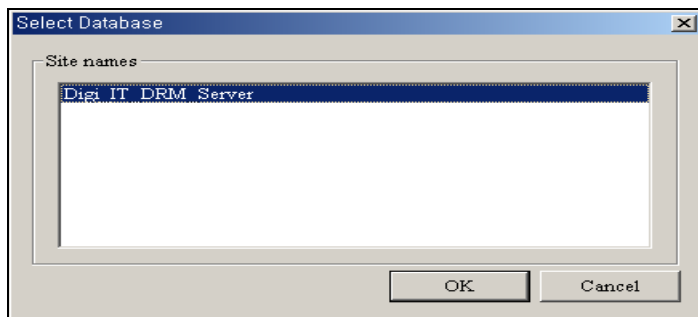
6.7. Local Playback

To search locally recorded images previously captured from the remote system, click on the L. PLAYBACK button from the main screen in the “DVR Remote” program. The local playback window will be displayed.

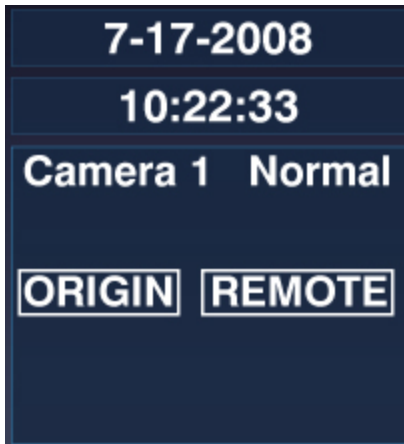


Snapshot Print Sounds Option Speed Control SITE

- Site: Select the Site button to select the desired site containing the recorded video.

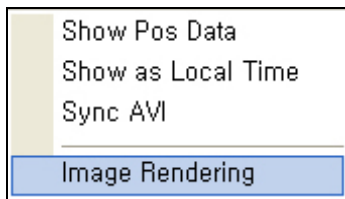


Once you have selected the desired site, you will need to select either "ORIGIN" or "REMOTE" for the type of recording (see below).



- ORIGIN: If you recorded transmitted images to your local machine from the DVR system through remote search, it will be recorded here.
- REMOTE: If you recorded transmitted images to your local machine from the live view or main Remote Viewer screen, it will be recorded here.

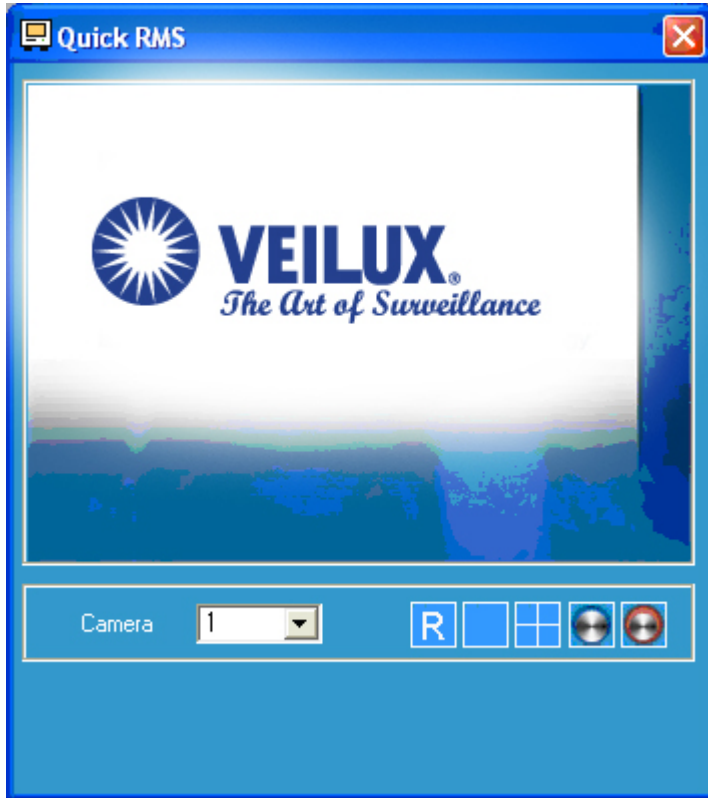
If user wants to see Video and Pos data embedded, user click **right button of the mouse**, check “Show Pos data” menu button



- Show Pos Data: If you want to see Video and Pos data embedded, check “Show PosData”
- Show as Local Time: If you want to search to get local time, check this function.
- Sync AVI: If you want to save image synchronize with time, click Sync AVI. This method has dump images to synchronize with time. So if you don't want it, don't check.
- Image Rendering: If you use Grandeye IPcamera, you can control this function. This function allows fisheye image to be rendered as VCams(Virtual camera) or panorama views. (Refer to 70 page)

6.8. Quick RMS

The Quick RMS is a quick way to connect with a small window that can be kept on your screen while you do other things. The Quick RMS program is located in Start/Programs/DVR/Remote.



: Connect button

Once a site has been defined in the main RMS, clicking this button will give you access to the site(s). Log on as in the main program.



: Disconnect button



: Single-Screen-Mode



: Multi-Screen-Mode

Camera: Select the camera number to want to view.



: After you connect to server, If you click Relay button, you can control relays of DVR server.



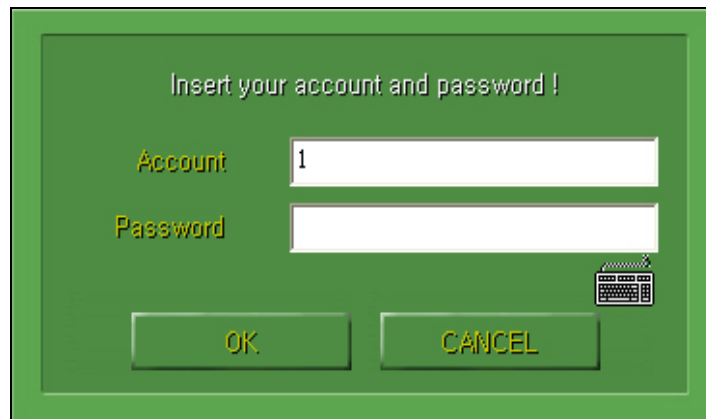
7. BACK-UP

7.1. Log on

DVR BACK-UP program allows backup the recorded data into a various devices such as HDD, DAT, DVD, ONSTREAM, CD-RW etc., either manually or automatically.

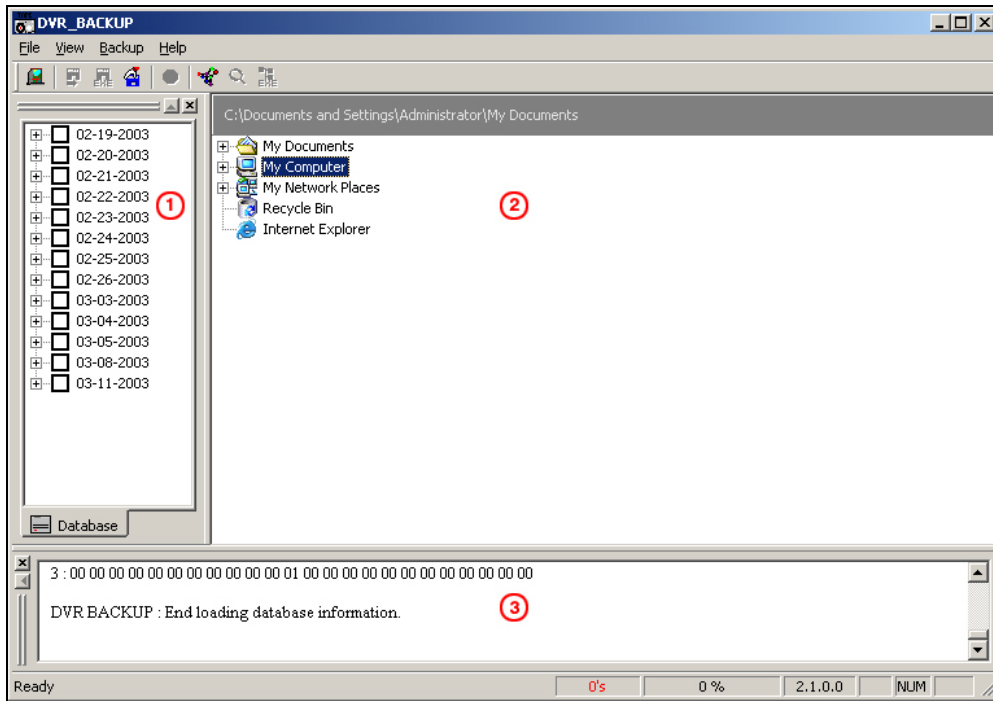
To backup recorded data, go to Start/Programs/DVR/Image Backup (dvBackup.exe) or, Click "BACKUP" from the monitoring screen.

Enter an account and password with access to the backup features (default Account is "1" with no password). Click "OK"



7.2. Structure of Back-up screen

After logging on, the following screen is displayed.



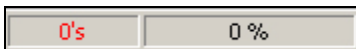
- 1) Shows the existing recording data, listed by date.
- 2) Shows the device or folder the backup will go into.
- 3) Shows the status of the backup.

7.2.1. Tool Bar



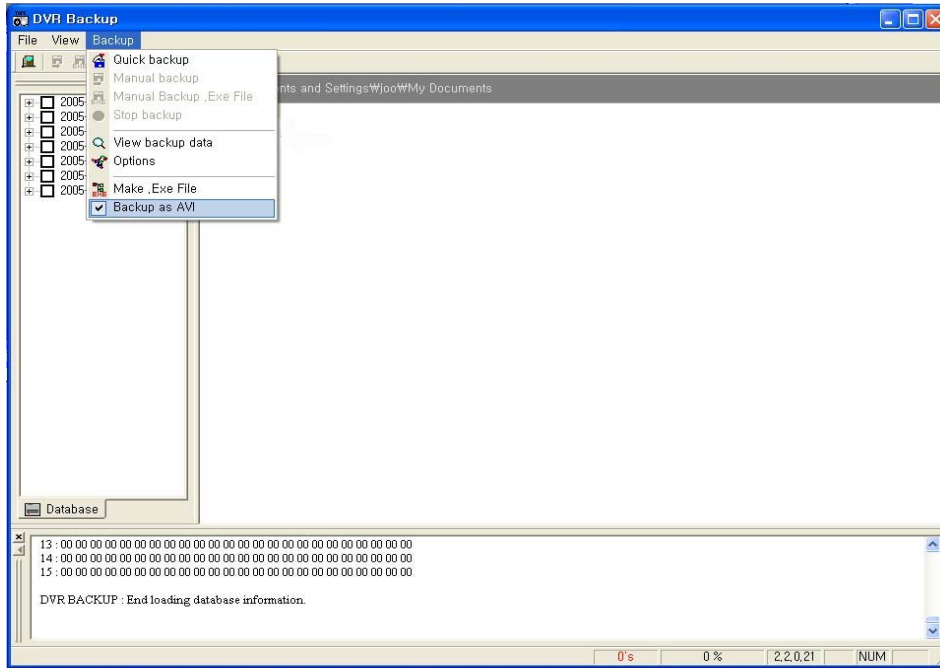
- 1) Exit
- 2) Start: Start button for manual backup.
- 3) Backup to exe. File: See section 6.4
- 4) Quick Backup
- 5) Stop: Stop or pause the backup.
- 6) Option: Sets Manual Back-up or Scheduled Backup
- 7) Viewer: Opens the Back-up Viewer
- 8) To be added later

7.2.2. Status Bar



- Time: Shows the current second of video being backed up.
- Processing: Shows the level of completion for the current backup.

7.2.3. Menu Bar

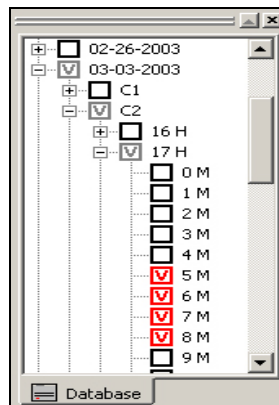


As an option, you can backup files in AVI format. Check this “Backup as AVI” button for this option.

7.3. Manual Back-up

To backup a specific time of recorded data, select this option and follow the sequence below.

7.3.1. Select desired recording data for Backup



Using the recorded data tree, you can select data by camera, then day, hour, and minute.

7.3.2. Select device or folder for Backup

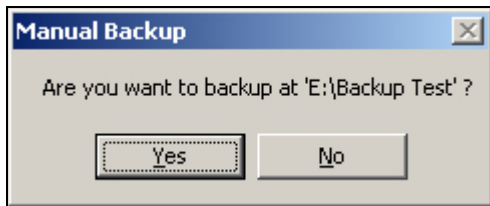


7.3.3. Start Manual Back-up

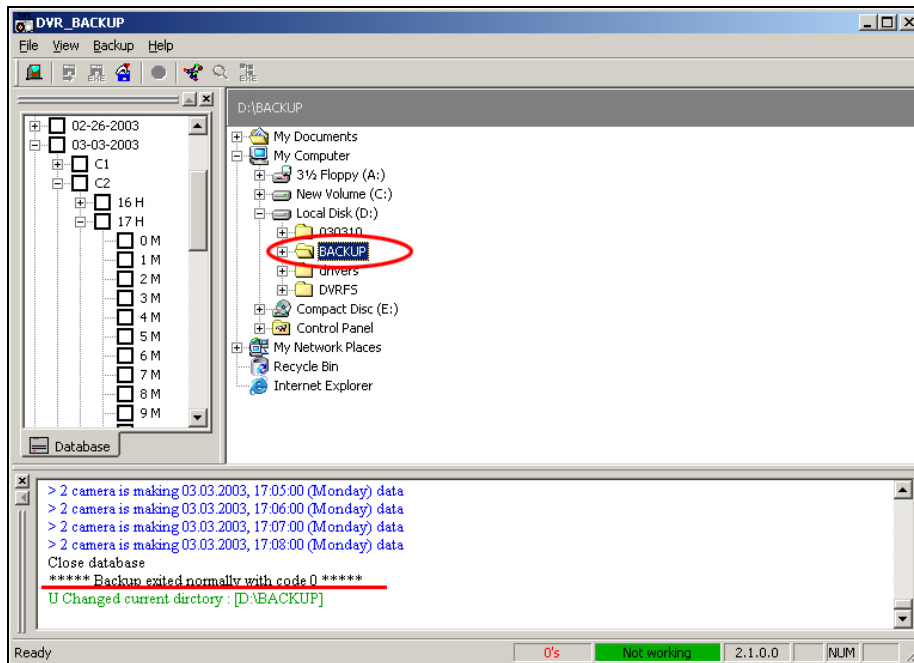
After setting the recorded data and device (or folder) for backup, the start button will become active.



Click “ Start “ Button and click “ Yes”



Once the backup is done successfully, the status window will show the message “Backup exited normally with code 0”, and the processing bar will show “Not working”. A new folder called “BACKUP” is created.



7.4. Backup to Backup.exe file

By backing up recorded data using the Backup.exe function, the data and the video player are put into one file, and can be played back on any other Windows based PC. Note: The backup.exe file needs to be less than 2GB.

7.4.1. Select desired data for Backup

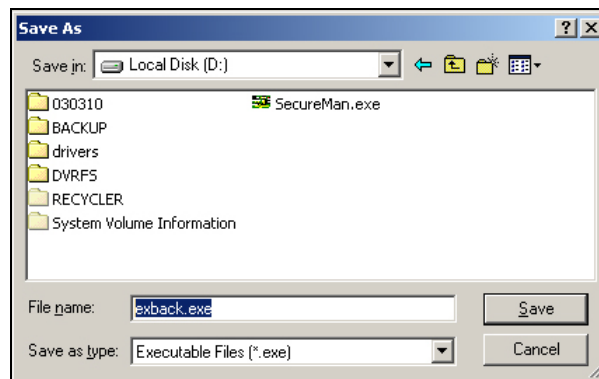
Please refer to section 6.3.1.

7.4.2. Make a Backup.exe file

The process is the same as described above, except that you will choose the .exe option (see below).

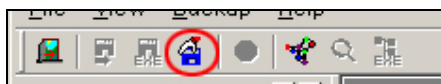


The “Save As” window will appear. Simply name your file and click “SAVE”

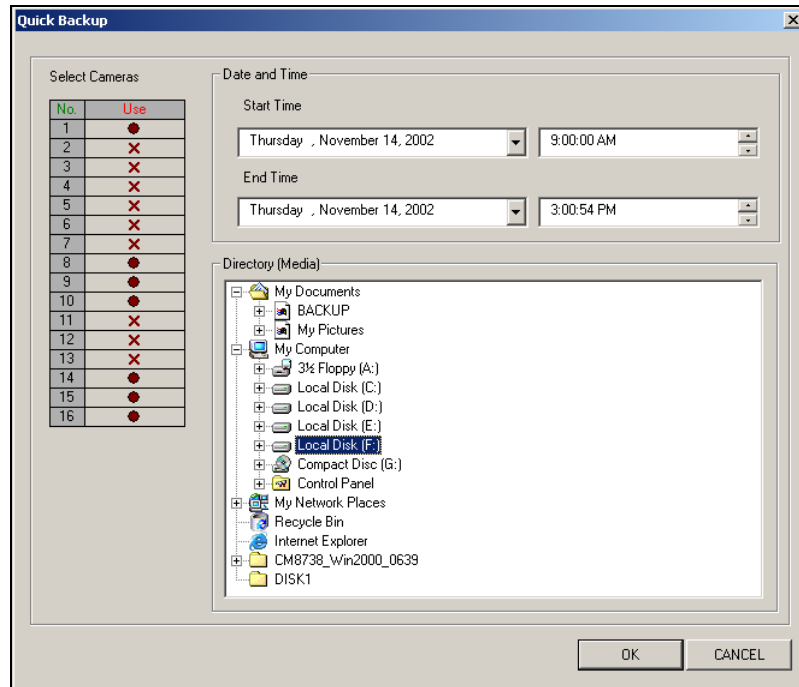


Once you completed the backup, you can click on the executable file and it will execute the video player. Look at the calendar for the recorded dates (in red) and click on the date. You will see the available video, and the player will be active.

7.5. Quick Back-up



“Quick Backup” is a quick, simple way to back up data. Once you’ve clicked on the Quick Backup button, the following screen will be displayed.



- Select Cameras: Selected cameras will appear as a red circle – clicking toggles.
- Start Time: Enter the desired start time.
- End Time: Enter the desired end time.
- Directory (Media): This is where the file will be saved.

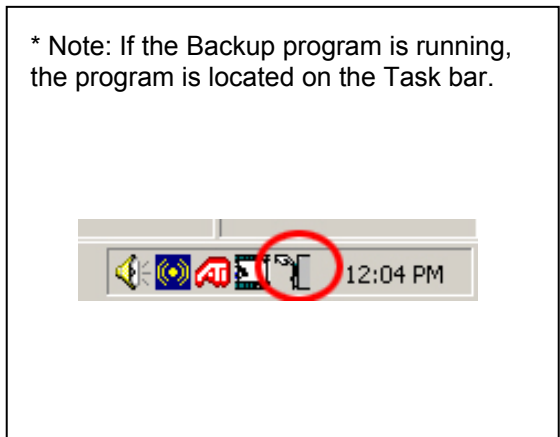
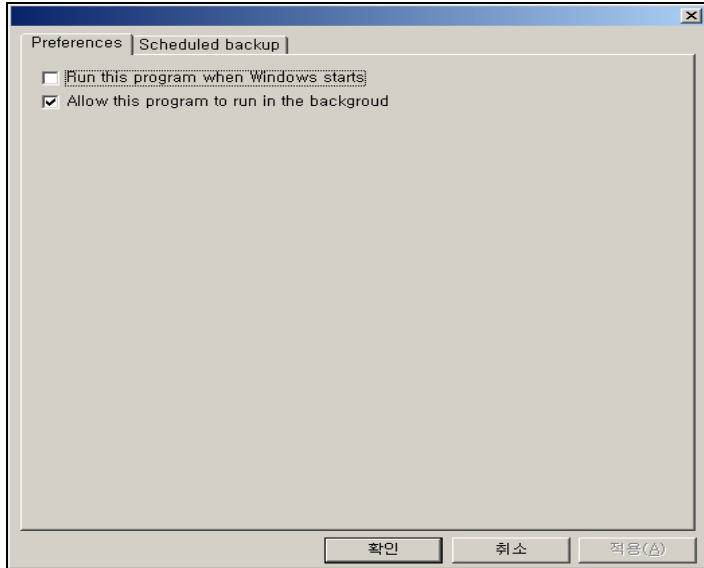
The above example shows the video to be recorded as 09:00 a.m. ~3:00 p.m., recording cameras 1, 8, 9, 10, 14, 15, 16, and recorded to the “F:\” drive.

7.6. Auto Back-up

7.6.1. Option settings



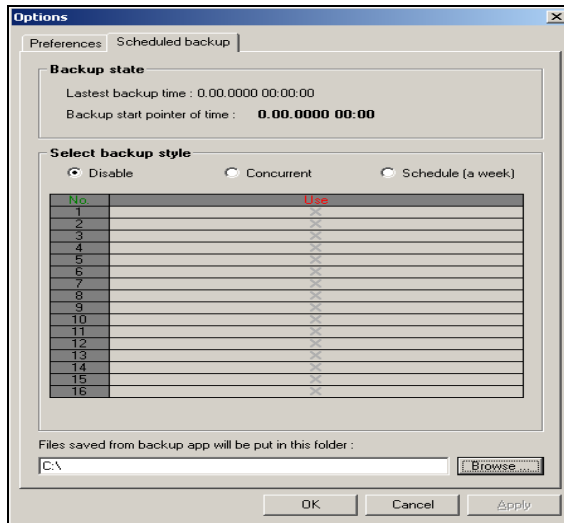
Click the “Change Backup Options” button on Tool bar to display the following window.



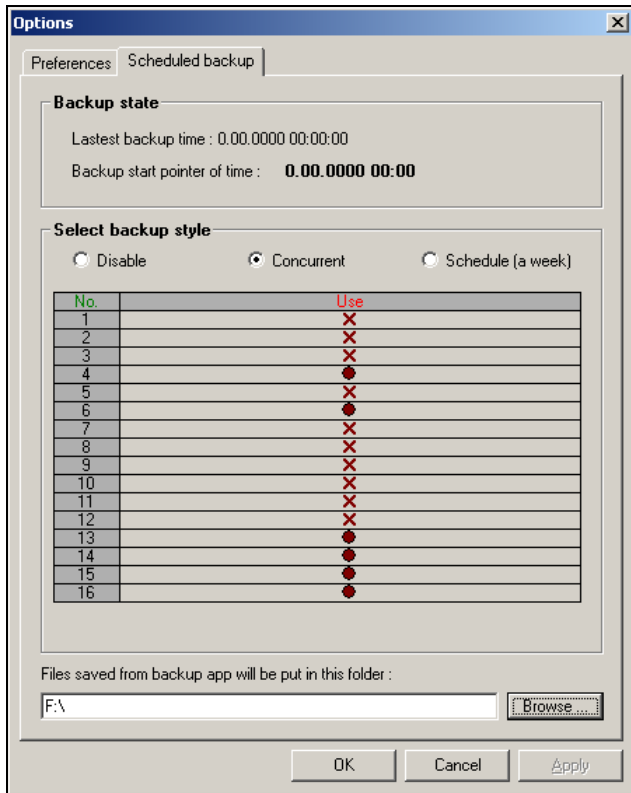
- Run this program when Windows starts
- Allow this program to run in the background:

7.6.2. Setting the “Concurrent Back-up”

Click the “Scheduled backup” tab. The default setting is disabled.



The Concurrent Backup setting is shown below.



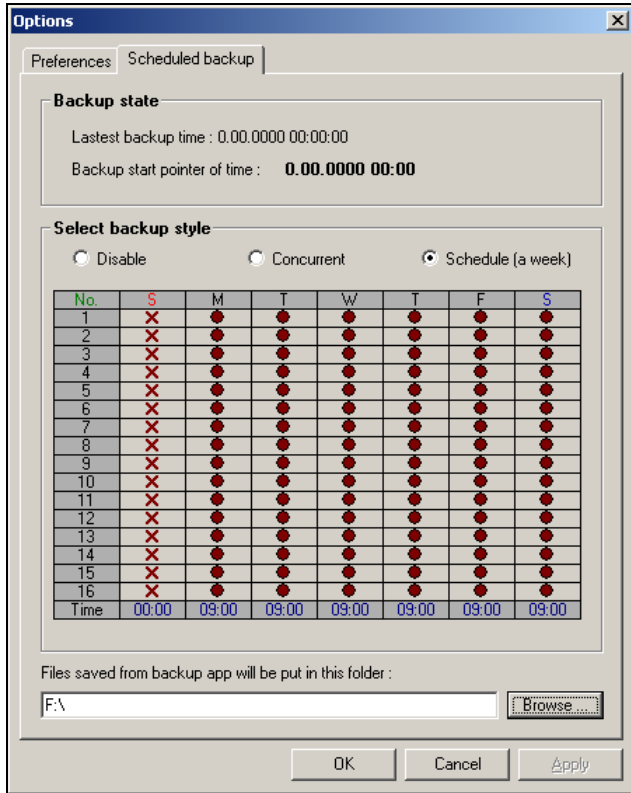
Note: Scheduled cameras are designated with a red circle. The X indicates that the camera will not be backed up.

- Lastest backup time: Shows latest backup time of schedule backup.
- Backup start pointer of time: Starting point for next backup.
- Disable: Disable the scheduled backup.
- Concurrent: Live Recording and Backup is done at the same time.
- Schedule (Weeks): Set a daily or weekly backup schedule.
- Files saved from backup app will be put in this folder:

The above example shows that video will be concurrently backed up, but only backing up cameras 4, 6, 13, 14, 15, 16, with the backup located on drive F:.

7.6.3. Setting of ‘Scheduled Backup’

Use this option to set a daily or weekly backup.



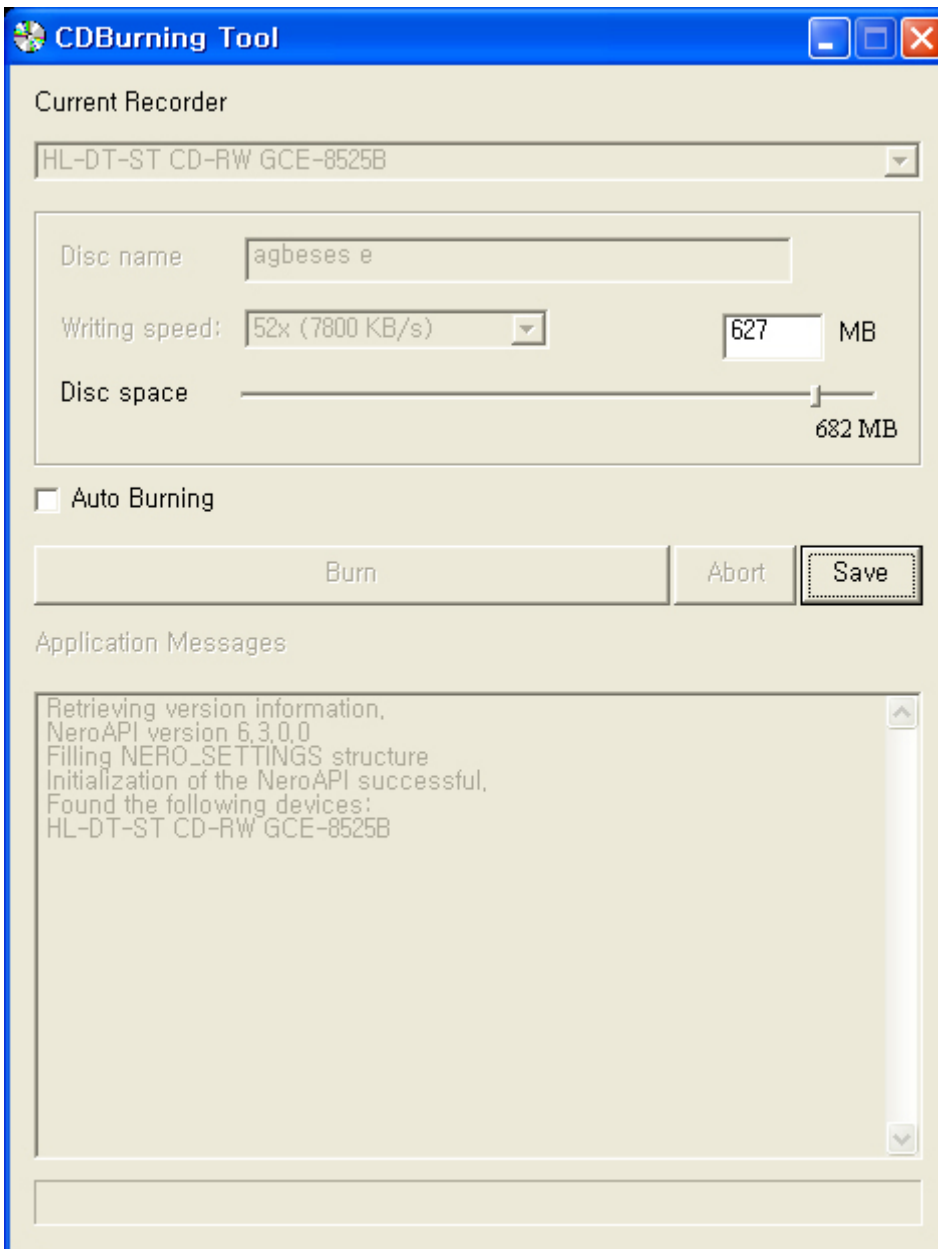
Note 1. If you want to set all cameras on a particular day or time, click a ‘Day’ cell, ‘Time’ cell, or click on the ‘No.’ cell to select all cameras.

Note 2. Depending on the configuration of your specific DVR and the data being recorded, backups may slow the recording frame rate down.

Above picture shows all data backed up except Sunday.

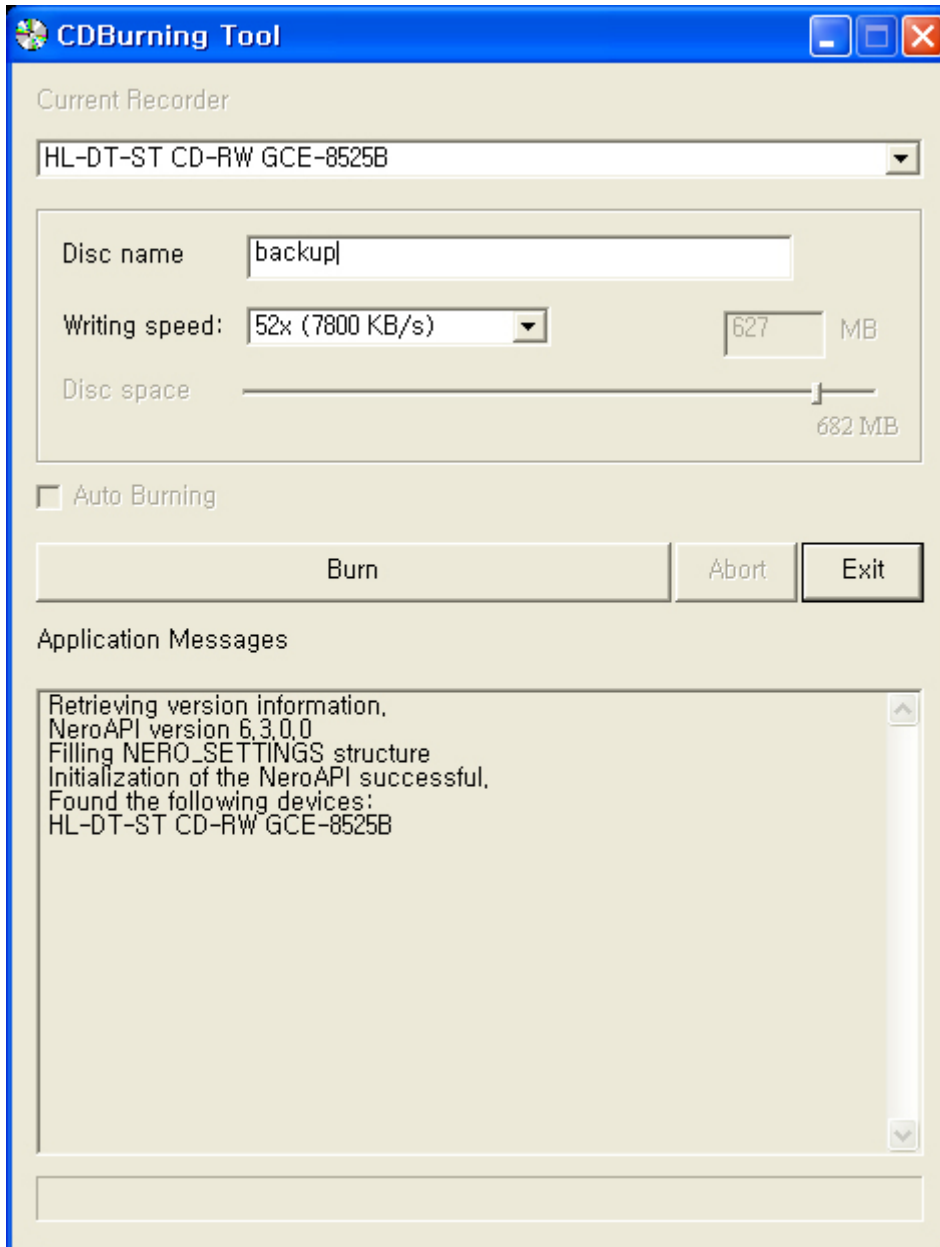
7.7. How to backup on CD or DVD

Backing up to a CD-R/RW or DVD-R/DVD-RW is shown below, as long as Nero CD burning software is installed in your system.



- Disc space: You can choose the amount of space on the CD which you want to use for backup data (default max 680MB). If the Disc space shows 0 MB, there is no space to write, or you need to insert a writable CD.
- Auto Burning: If you select this function, burning will be automatically (recommended).

1) Once the options have been set, click “Save” and the following will be displayed

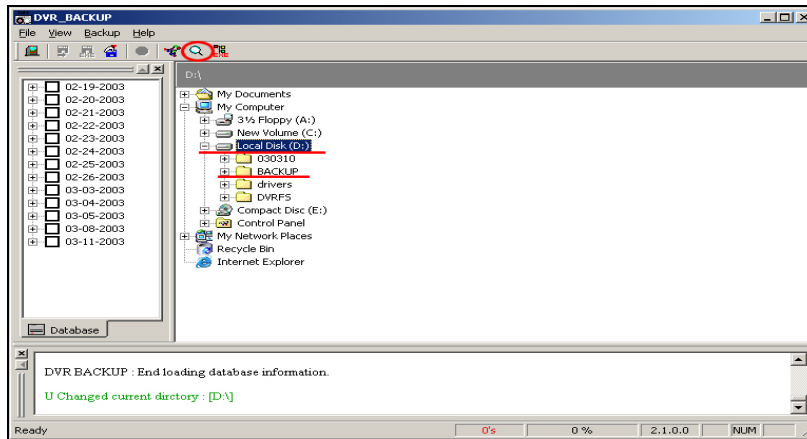


- Disc Name: Name your backup disc here.
- Writing Speed: Select speed of writing to burn (default is ok in most circumstances)
- Burn: Click here when you are ready to make the copy.
- Abort: Click “Abort” to abandon the backup operation.
- Exit

*** If the data size to backup is more than the capacity of your disc, you will need to insert additional media during the process.

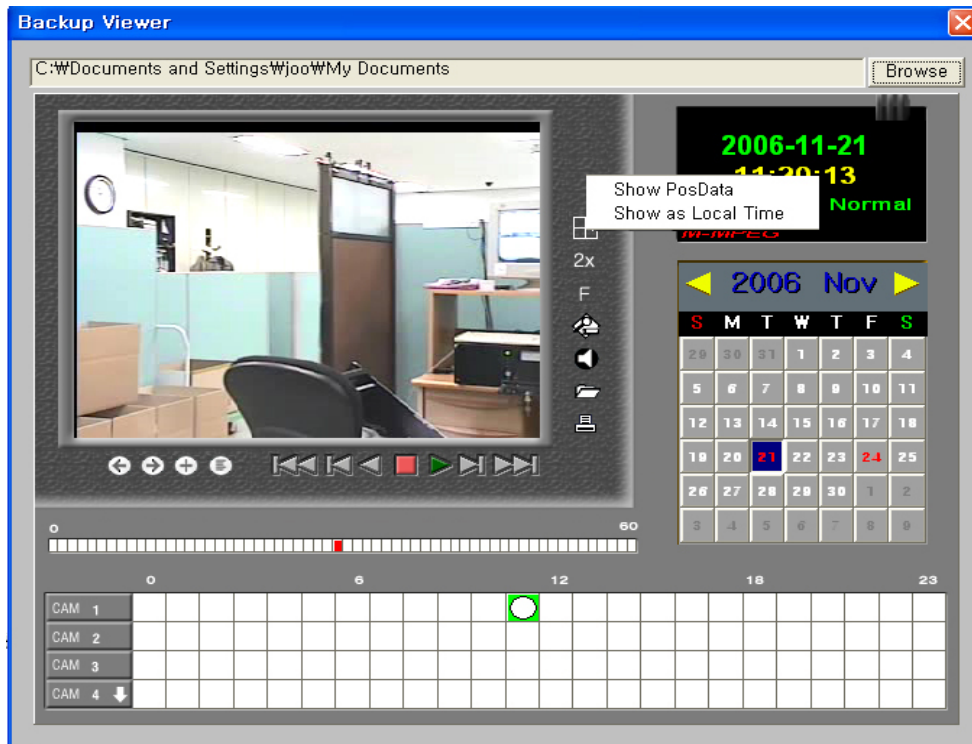
7.8. Backup Viewer

Follow this procedure to view data backed up to your hard drive or CD. Typically you would use this process if the backed up data is not in the .exe form.



Click on the Viewer icon to bring up the playback screen. Please refer to “Play Back” for detailed operation of the “Back-up Viewer”.

Click on the Browse button to choose a different directory if needed.



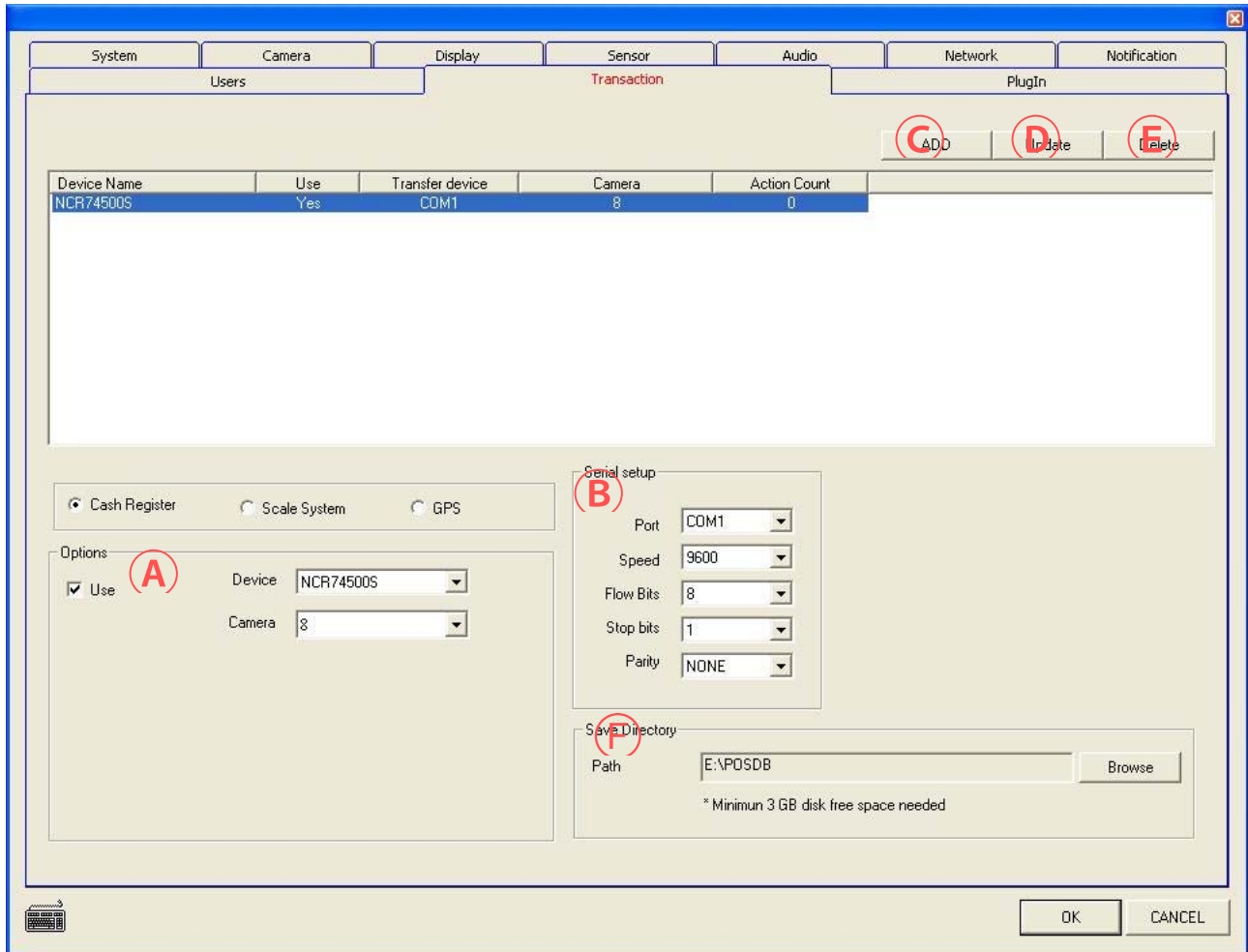
: User can search data of backup by multi viewer.



Show Pos Data : If you want to see Video and Pos data embedded, click right then check “Show PosData”
 Show as Local Time: If you want to search and view local time, click the right of the mouse, check this function.

8. POS (Options)

8.1. Setting (Single Serial CR)

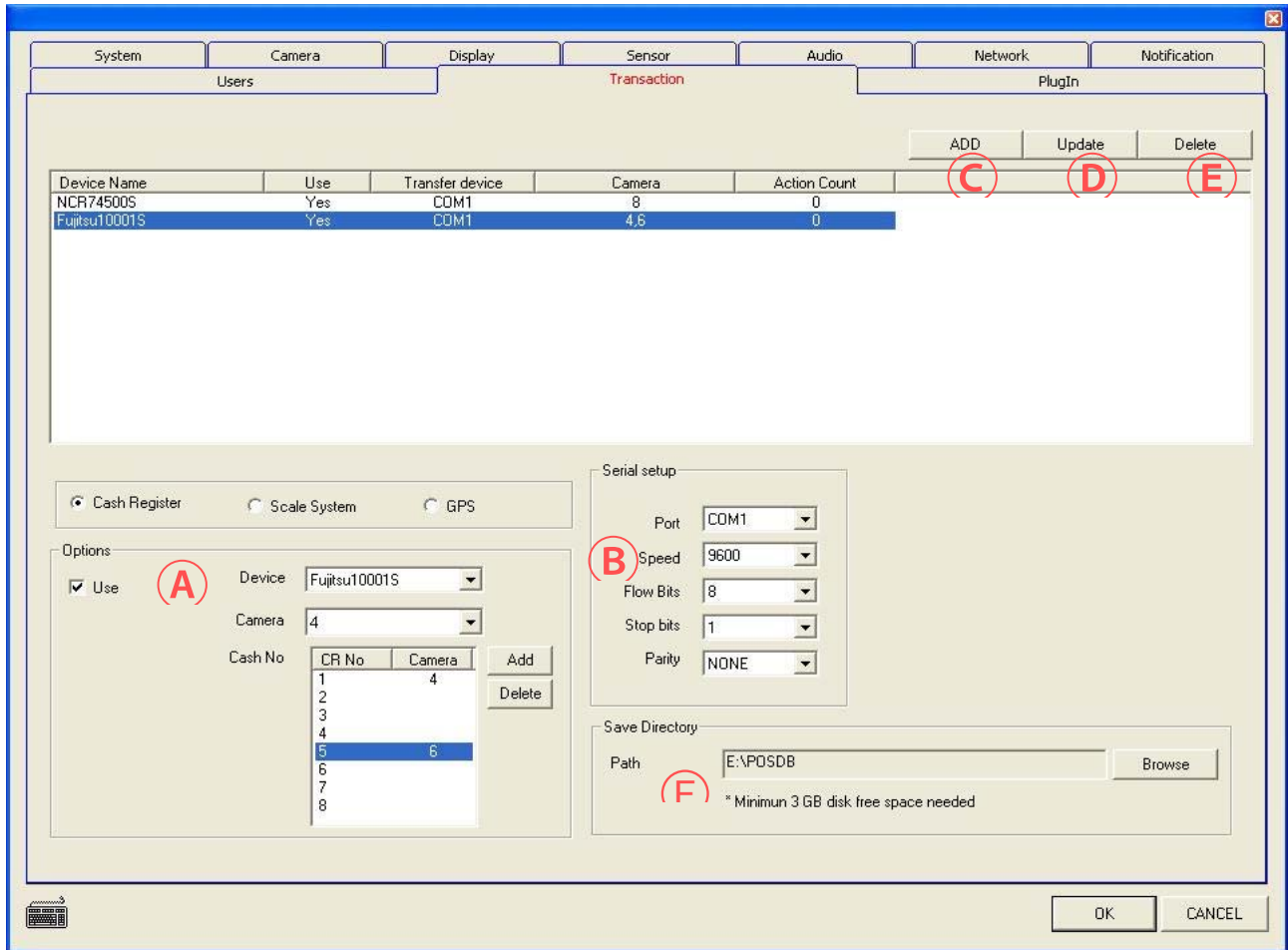


Main Dialog Displays the Serial port configurations.

<p>(A)</p>	<ul style="list-style-type: none"> - Use: Check the “Use” option if you want to use a device. - Device: Set the cash register type (i.e., Casio610001) - Camera: Set camera number to associate with the cash register. - Action Count: Number of transactions or exceptions associated with the register
<p>(B)</p>	<ul style="list-style-type: none"> - Port: Choose a COM Port - Speed: Set the communication baud rate (9600 = default) - Flow Bits: (8 = default) - Stop Bits: (1 = default) - Parity: (NONE = default)
<p>(C)</p>	<p>Add the selected Cash Register.</p>
<p>(D)</p>	<p>Update the selected Cash Register.</p>
<p>(E)</p>	<p>Delete the selected Cash Register.</p>
<p>(F)</p>	<p>Save Directory: Sets the POS database path to save the POS transactions. Ensure there is enough disk space If you use under 16 registers, a minimum of 3GB should be allocated. If</p>

you use 16 registers, minimum 5GB disk space is needed.

8.2. Setting (Multi Serial CR)

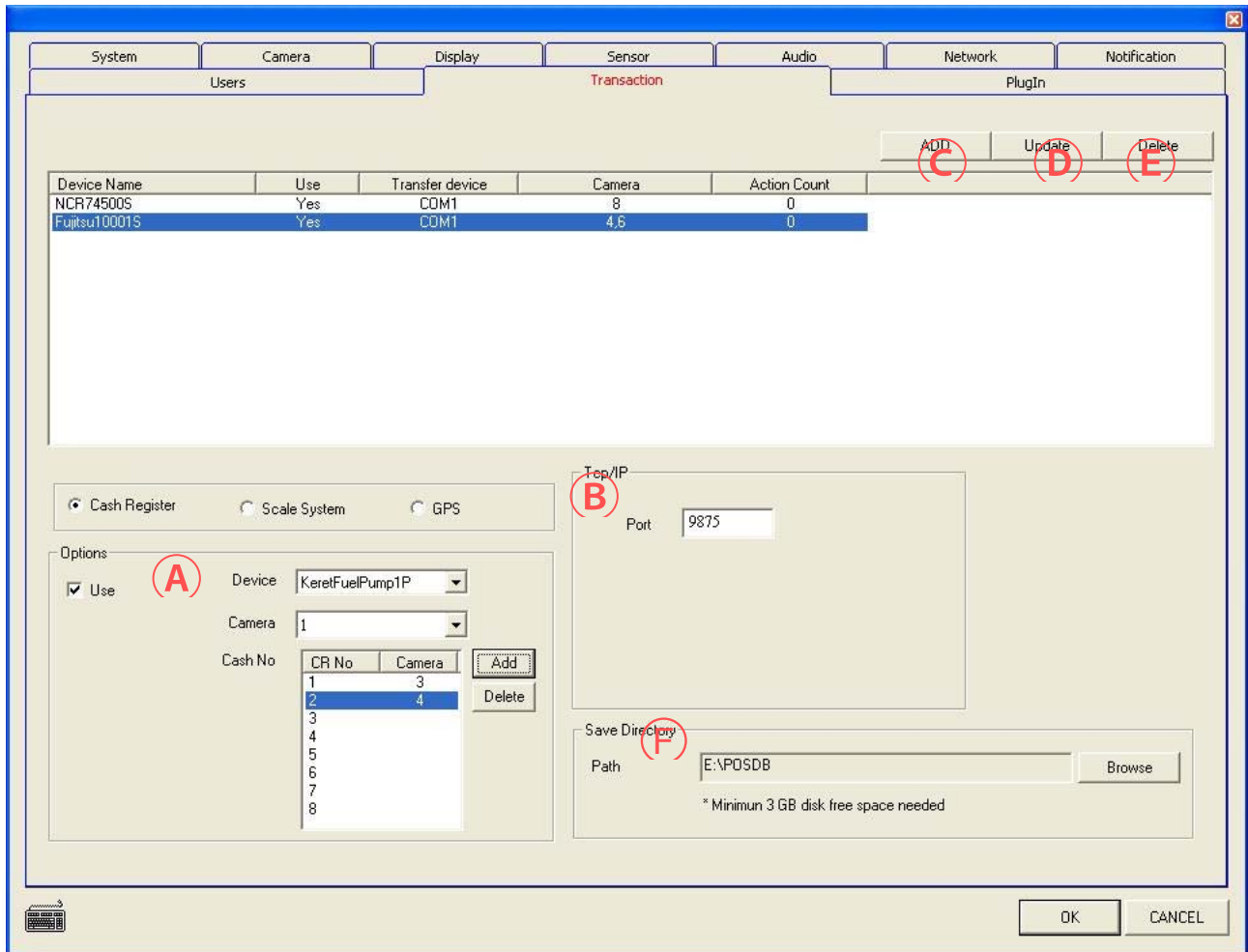


Main Dialog Displays the Serial port configurations.

<p>(A)</p>	<ul style="list-style-type: none"> - Use : Check Use option checkbox if you want to use the selected Device Name. - Device : Choose the cash register type(ex:Fujits1S) - Camera : Choose the camera number to display the cash register data. <ul style="list-style-type: none"> - Add : Add the selected camera - Delete : Delete the selected camera - Can select multi camera for CR - Action Count : Count of action code command
<p>(B)</p>	<ul style="list-style-type: none"> - Port : Choose Port (these ports have to differ per cash register. support up to max 16) - Speed : 9600(default) - Flow Bits : 8(default) - Stop Bits : 1(default) - Parity : NONE(default)
<p>(C)</p>	<p>Add the selected Cash Register.</p>
<p>(D)</p>	<p>Update the selected Cash Register.</p>
<p>(E)</p>	<p>Delete the selected Cash Register.</p>

F Save Directory: Sets the POS database path to save the POS transactions. Ensure there is enough disk space. If you use under 16 registers, a minimum of 3GB should be allocated. If you use 16 registers, minimum 5GB disk space is needed.

8.3. Setting (Multi TCP CR)

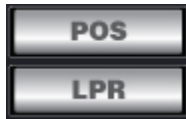


Main Dialog Displays the Serial port configurations.

A	<ul style="list-style-type: none"> - Use : Check Use option checkbox if you want to use the selected Device Name. - Device : Choose the cash register type(ex:Fuijits1S) - Camera : Choose the camera number to display the cash register data. <ul style="list-style-type: none"> - Add : Add the selected camera - Delete : Delete the selected camera - Can select multi camera for CR - Action Count : Count of action code command
B	- Port : Type Port no (except 9876)
C	Add the selected Cash Register.
D	Update the selected Cash Register.

E	Delete the selected Cash Register.
F	Save Directory: Sets the POS database path to save the POS transactions. Ensure there is enough disk space. If you use under 16 registers, a minimum of 3GB should be allocated. If you use 16 registers, minimum 5GB disk space is needed.

8.4. Transaction Search



These buttons are used to query transaction data.



POS Button: If you want to query all transaction listed for the selected day, use this button

Below is the display screen when you click the POS button.

The screenshot shows the Veilux POS interface. At the top, there are menu options: Snapshot, Backup, Print, Sounds Option, Speed Control, and Motion Detection. The main display area is split into three sections:

- Top Right:** Veilux logo, date (7-17-2008), time (10:22:33), camera info (Camera 1 Normal), and video format (M-MPEG). There are zoom controls (1x, 2x, 4x, MAX) and a play button.
- Center:** A live camera feed showing a shopping mall interior. A red arrow points to a yellow box on the right side of the feed.
- Bottom Left:** A table of transactions with columns: No, Time, CAM, Register, Register Time, Receipt No.
- Bottom Center:** A receipt for 'REG 05-24-2004 12:30' listing items like CAKE, MILK, COFFEE, and BANANA with their prices.
- Bottom Right:** A calendar for December 2008.

No	Time	CAM	Register	Register Time	Receipt No
1	12:30:01	6	Gilbarco		
2	12:30:02	6	Gilbarco		
3	12:30:11	6	Gilbarco		
4	12:30:13	1	Casio6100	12:30:00	000513
5	12:30:20	6	Gilbarco		
6	12:30:20	7	NCR7450	12:30:00	2839
7	12:30:24	9	RubyCR	12:31:28	10771
8	12:30:28	1	Casio6100	12:30:00	000509
9	12:30:30	6	Gilbarco		
10	12:30:37	2	DresserWayne	12:31:06	0050

E A B C D F G H I

If a user wants to see Video and Pos data embedded, click **right button of the mouse**, check “Show Pos Data” menu button. Basically Video data is only displayed, Pos data is not overlaid.

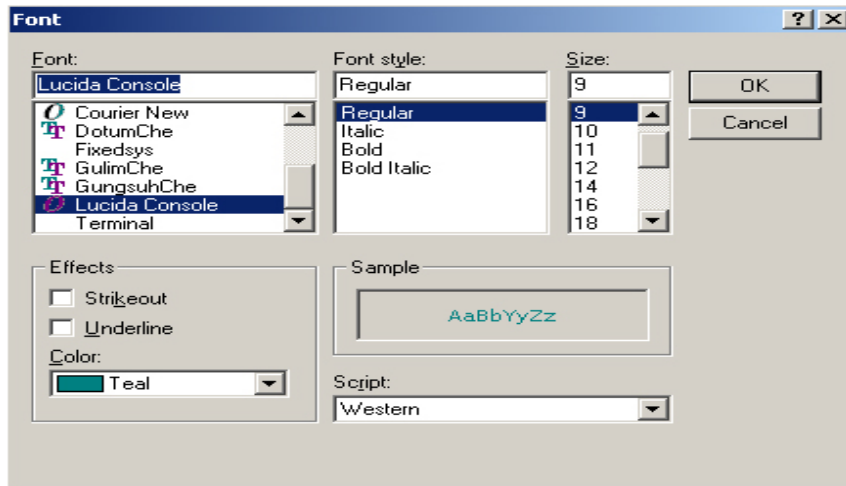
Transaction List Header meaning

No	Transaction list sequence Number
Time	DVR's save time of the transaction
CAM	Camera Number
Register	Cash Register Type
Register Time	Cash Register Time (Most registers)
Receipt No	Cash Register Receipt Number (Most registers)
Total	Total Price per transaction

A	<<: Move to the first page
B	<: Move to the previous page
C	>: Move to the next page
D	>>: Move to the last page
E	Query: Define specific searches
F	Report: Show the statistical graph
G	Print: It will print a displayed receipt.
H	Popup: Show an enlarged receipt data
I	Font: Change font, font size and/or color
Refresh	If you requery the transaction list, use the “Refresh” button.

If you click the Transaction list, the popup dialog displays the original receipt data. When you click the Play button, you can see the text on the video of the selected transaction.





Click the POS button again to exit the Query Menu.



POS CR Button: Use this button to select a transaction after you have already identified the video's date / time.

Snapshot Backup Print Sounds Option Speed Control Motion Detection

VEILUX
7-17-2008
10:22:33
Camera 1 Normal
M-MPEG

1x
2x
P
BOOKMARK

MIN
1X
2X
3X
4X
MAX

SHARP
BLUR
ZOOM
B/W
ORIGIN
CANCEL
POS
LPR

DECEMBER 2008

No	Time	CAM	Register	Register Time	Receipt No
1	12:30:01	6	Gilbarco		
2	12:30:02	6	Gilbarco		
3	12:30:11	6	Gilbarco		
4	12:30:13	1	Caso6100	12:30:00	000513
5	12:30:20	6	Gilbarco		
6	12:30:20	7	NCR7450	12:30:00	2839
7	12:30:24	3	RubyCR	12:31:28	10771
8	12:30:28	1	Caso6100	12:30:00	000509
9	12:30:30	6	Gilbarco		
10	12:30:37	2	DresseWWayne	12:31:06	0050

REG 05-24-2004 12:30
C 01 MC#01 000509
1 CAKE \$0.14
1 MILK \$0.21
1 COFFEE \$0.31
1 COFFEE \$0.61
1 BANANA \$0.12
1 CAKE \$0.13
1 MILK \$0.61
1 CAKE \$0.15
TL \$ 2.28

1 / 457 Query Refresh Report Total: 24016.19

Time: 12:30:28

Query: If you want to extend search, click this button

Below is the display screen when you click the Query button.



7-17-2008

10:22:33

Camera 1 Normal

M-MPEG

1x

2x

P

1 2 3 4 5 6

BOOKMARK

MIN
1X
2X
3X
4X
MAX

⏪ ⏩

SHARP
BLUR
ZOOM
B/W
ORIGIN
CANCEL
POS
LPR



No	Time	CAM	Register	Register Time	Receipt No
1	12:30:01	6	Gilbarco		
2	12:30:02	6	Gilbarco		
3	12:30:11	6	Gilbarco		
4	12:30:13	1	Casio6100	12:30:00	000513
5	12:30:20	6	Gilbarco		
6	12:30:20	7	NCR7450	12:30:00	2839
7	12:30:24	3	RubyCR	12:31:28	10771
8	12:30:28	1	Casio6100	12:30:00	000509
9	12:30:30	6	Gilbarco		
10	12:30:37	2	DresseHWayne	12:31:06	0050

REG 05-24-2004 12:30	C 01	MC#01	000509
1	CAKE	\$0.14	
1	MILK	\$0.21	
1	COFFEE	\$0.31	
1	COFFEE	\$0.61	
1	BANANA	\$0.12	
1	CAKE	\$0.13	
1	MILK	\$0.61	
1	CAKE	\$0.15	
	TL	\$ 2.28	

1 / 457 Query Refresh << < > >> Report Total: 24016.19

DECEMBER 2008

S	M	T	W	T	F	S
	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			

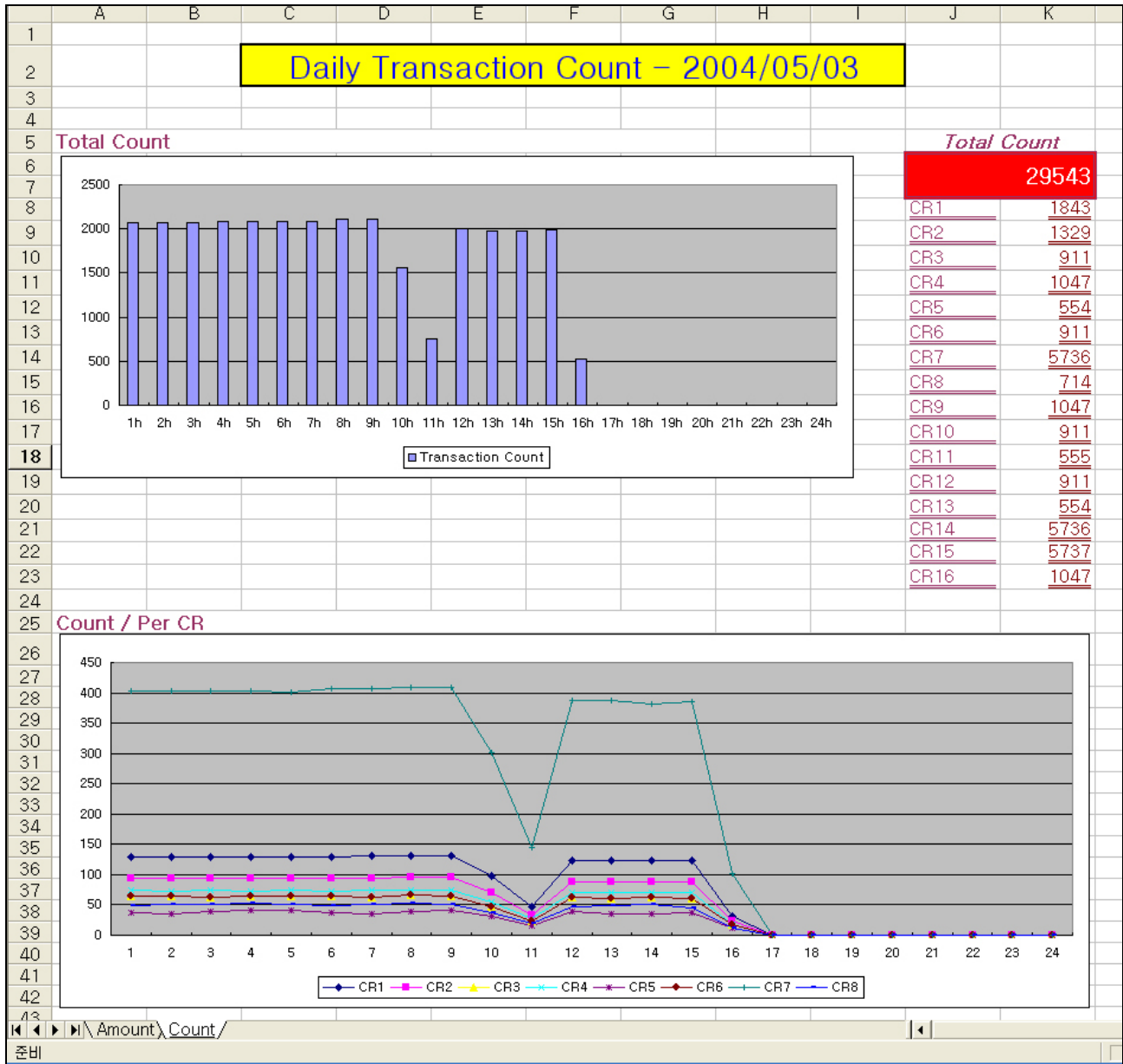
A
B
C

D
E
F

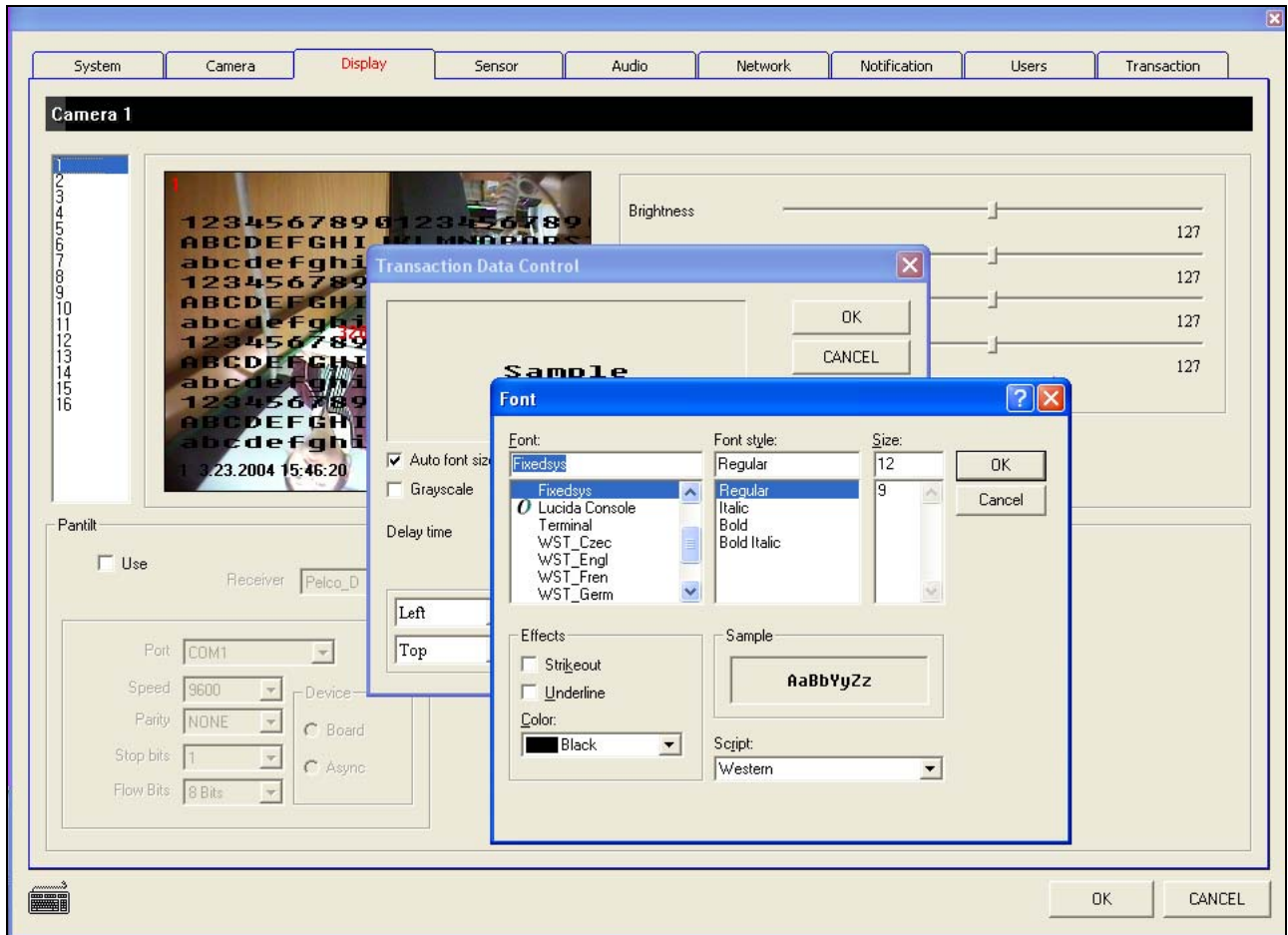
A	Start Day & Time: Choose start day & time
B	End Day & Time: Choose end day & time
C	Camera: Choose camera number
D	Item: Edit the Item to search
E	Code: Choose the Action Code to search
F	Value: Set a Value for the Search
Query	Query: Execute the Search

Report: If you want to see statistical graph, click the “Report” button.

The DVR or remote computer must have Microsoft Excel installed for this feature to work.



8.5. Font Setup

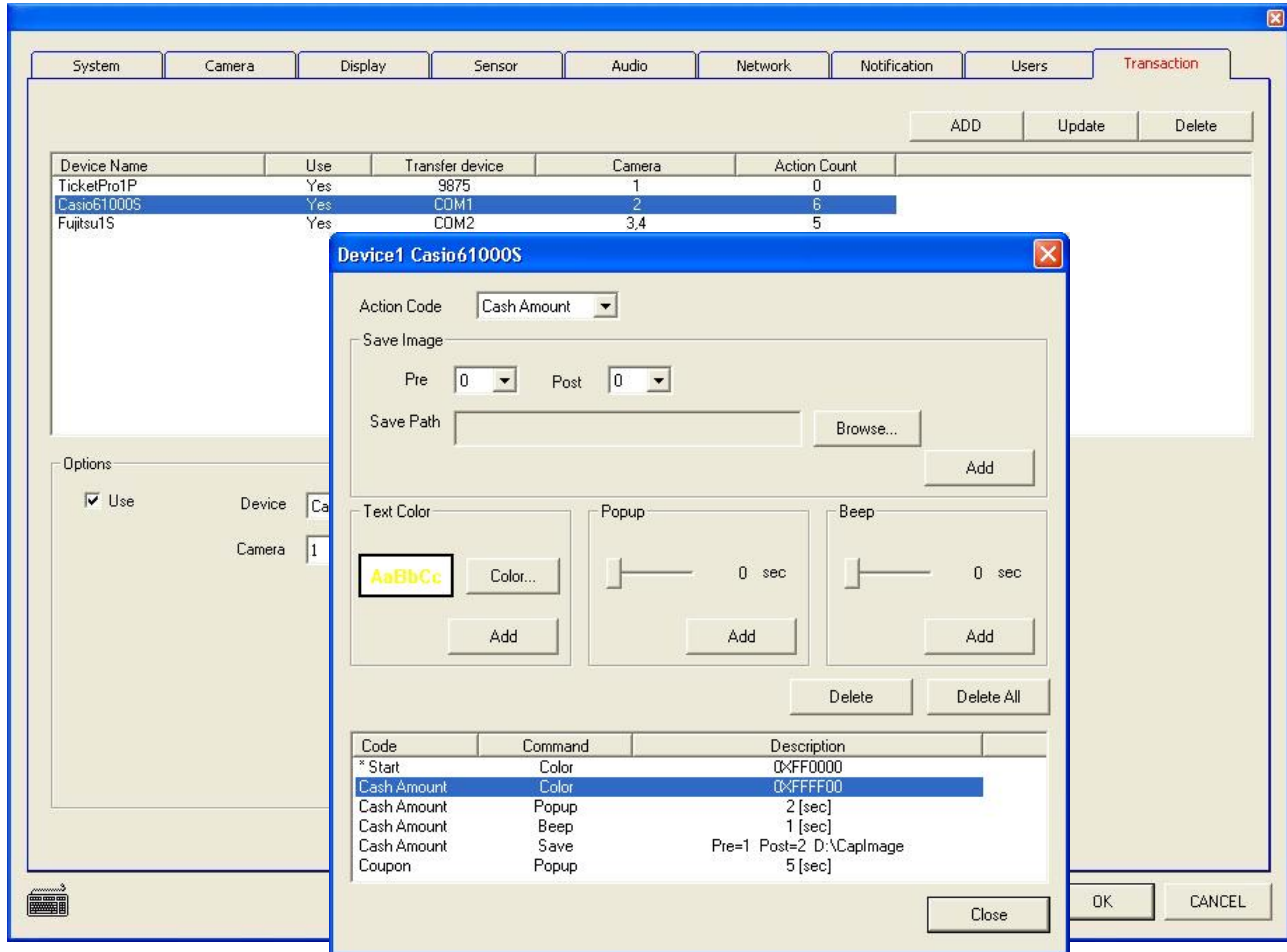


You can change the size and type of the font to make the text easier to see.

Use the Display tab in the Setting Menu, then choose Transaction Data Control to change the font.

8.6. Action Code Setup

When user double-clicks Item of the list control, the Action Code Window will be displayed as follows.



Action Code: Select an action code to define an exception for certain transactions

Pre: Set the pre-recording frames when the action code is activated.
 Post: Set the post-recording frames when the action code is activated..
 Save Path: Designate the folder name to save the Pre/Post images.
 Text Color: Set the color for the register text during the designated action code.
 Popup: If the action code is activated, the corresponding camera pops up.
 Interval: 1~100 sec
 Beep: If the action code is activated, the system will make an audible alert.

8.7. Add user defined ActionCode

You can add user defined Action Codes for specific needs.

Action codes can be defined in actioncode.ini file in the c:\program files\DVR\Main\drivers directory. Open the actioncode.ini file, and add the new action codes in the [USER ACTIONCODE] section.

User defined action code format is

ACTIONCODE=ACTIONNAME,ACTIONSTRING

ACTIONCODE : 2byte string from 01~99, It is a unique code by used by program internally.

ACTIONNAME : It a display name of action code located in the combo box of Search Program.

ACTIONSTRING : It a string shown in the receipt data

Example1) Add New ActionCode.

You can add New action code from 01 ~ 99

```
[USER ACTIONCODE]
01=AccessOK,Access Granted
```

In this case "Acces Granted" shown in the data, treated as Actioncode 01 and it's display name is "AccessOK"

Example2) Update Exsiting ActionCode

You can modify existing ActionCode.

In this case you can write the code in the [POS ACTIONCODE] or [SCALE ACTIONCODE]

```
[USER ACTIONCODE]
AM=Cash,Cash Amount
```

In this case AM predefined POS Actioncode is redefined with the string you want.

Example3) Define same ActionCode with different string.

```
[USER ACTIONCODE]
01=AccessOK,Access Granted
01=AccessOK,Door is Opened
02=AccessFail,Door is Closed
AM=Cash,Cash Amount
03=DoorUsed,Door Used
```

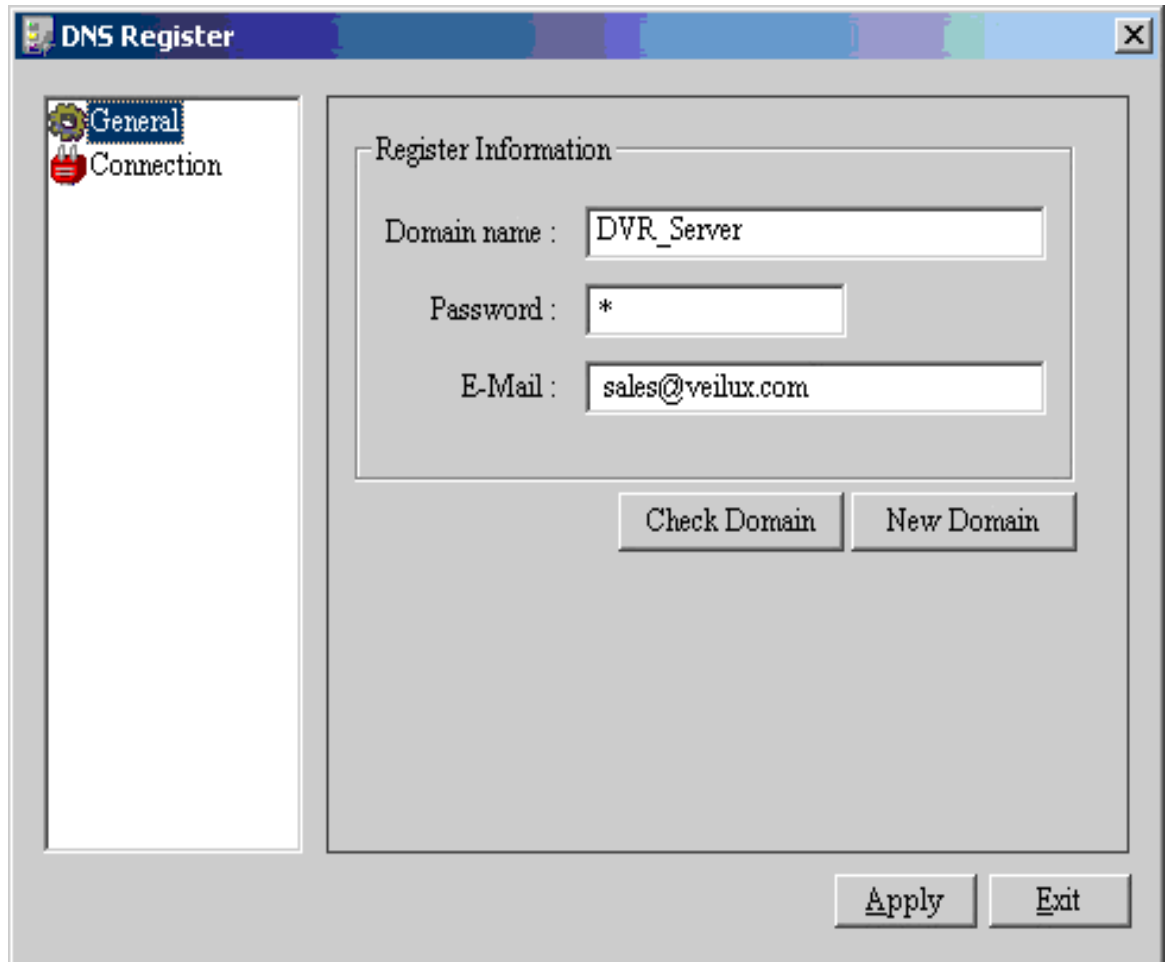
In this case, "Access Granted" and "Door is Opened" are treated as same action code 01.

9. DNS Service

9.1. DNS Client Setting (In DVR Main)

The DNS Service allows a DVR with a dynamic IP address to be accessed from a remote location. The DVR communicates with a DNS server, sharing its location on the internet, and then the remote location can ask the DNS server where the DVR is located and create a handshake. Once the handshake is created, the DNS server drops out of the communication. Follow these directions to initiate the DNS service. (Note: You may have to get the DNS Server IP address from your dealer.)

- Run the DNSClient.exe in C:\Program Files \DVR\Main, or under Start/Programs/DVR/Main/DNS Client Setting
 - General



The screenshot shows the 'DNS Register' application window. The title bar reads 'DNS Register'. On the left, there is a sidebar with two tabs: 'General' (selected) and 'Connection'. The main area is titled 'Register Information' and contains three text input fields: 'Domain name' with the value 'DVR_Server', 'Password' with a single asterisk '*', and 'E-Mail' with the value 'sales@veilux.com'. Below these fields are two buttons: 'Check Domain' and 'New Domain'. At the bottom right of the window are 'Apply' and 'Exit' buttons.

- Domain name: Insert a chosen Domain Name (can be anything, but less than 32 characters).
- Password: Create a password

- E-Mail: Insert and email address (for sending alarm event notification, if used).

- **New Domain button:** Click to register a new domain name on the DNS Server.

Register new DNS

Domain name: DVR_Server

Password: *

Re-type Password: *

e-mail: sales@veilux.com

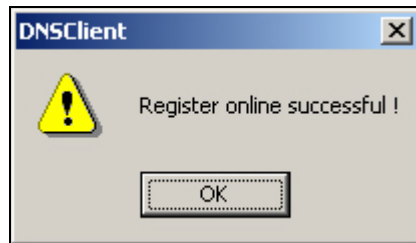
Description

Domain name
You will use the username as the hostname. The username must be no longer than 32 characters in length. You can use A~z, 0~9 and ' _'. You can't have any spaces nor can it start with a ' _'.

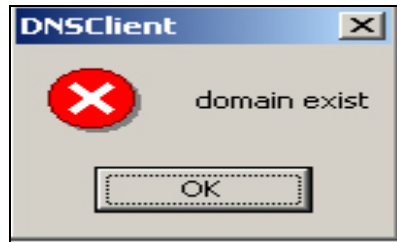
Password
The password is case-sensitive.

Register Cancel

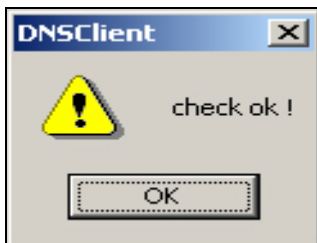
- After completing the required information, click “register”
- If your on-line register is successful, following window will show up.



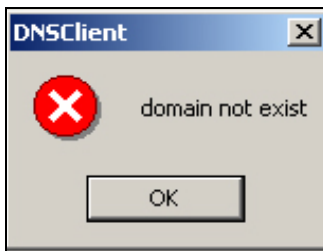
- If your domain name is already registered on the DNS server, following window will be appear. You must then use a different new domain name.



- **Check Domain** Button: Used to check if your domain name is registered on the DNS server or not

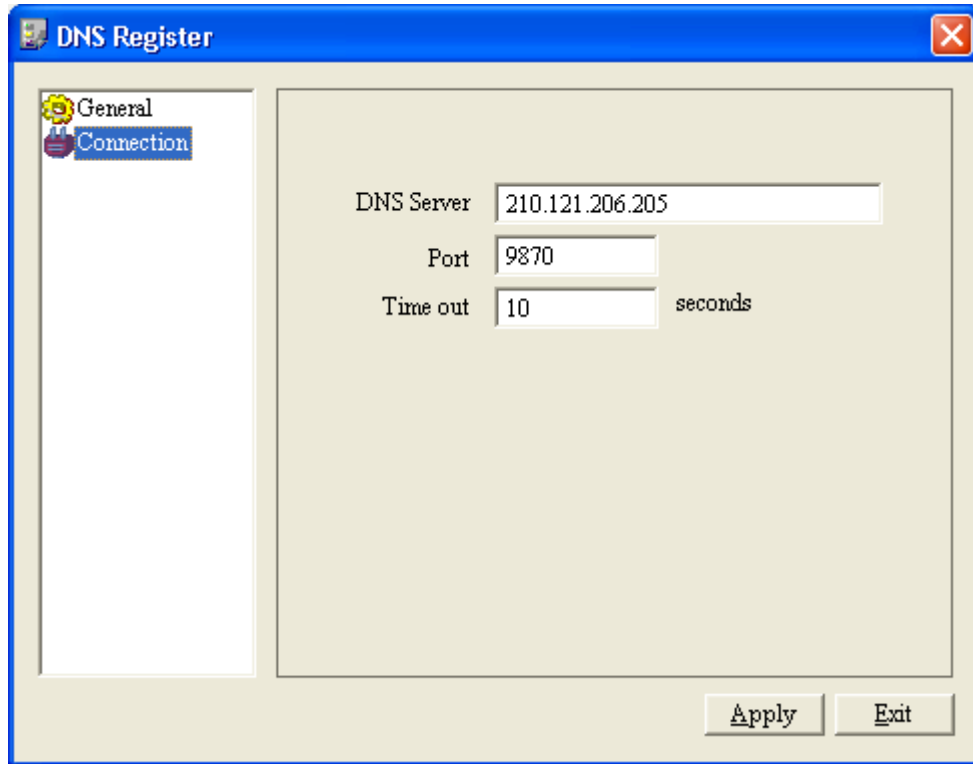


Domain name is registered on the DNS server



Domain name is not registered on the DNS server

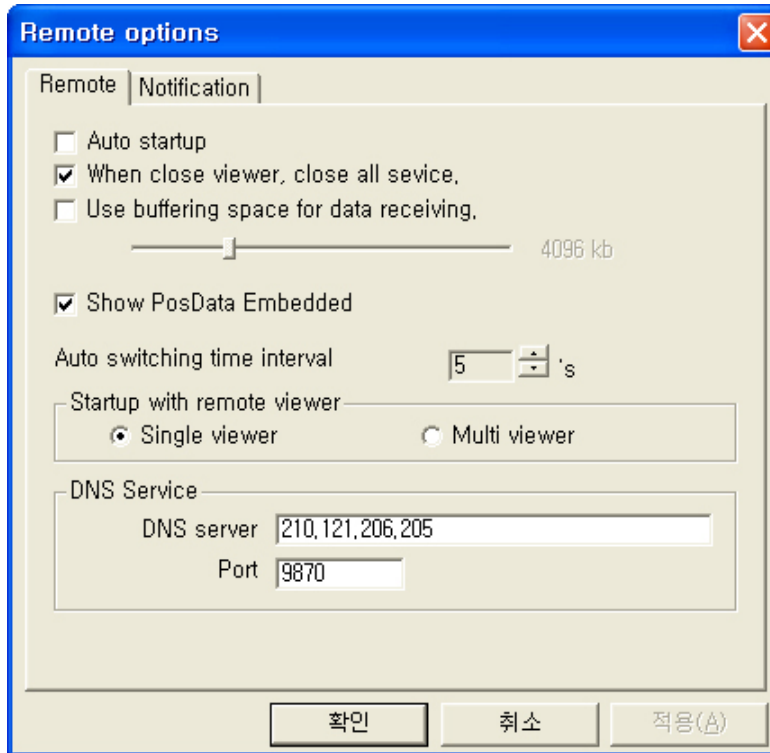
- Connection



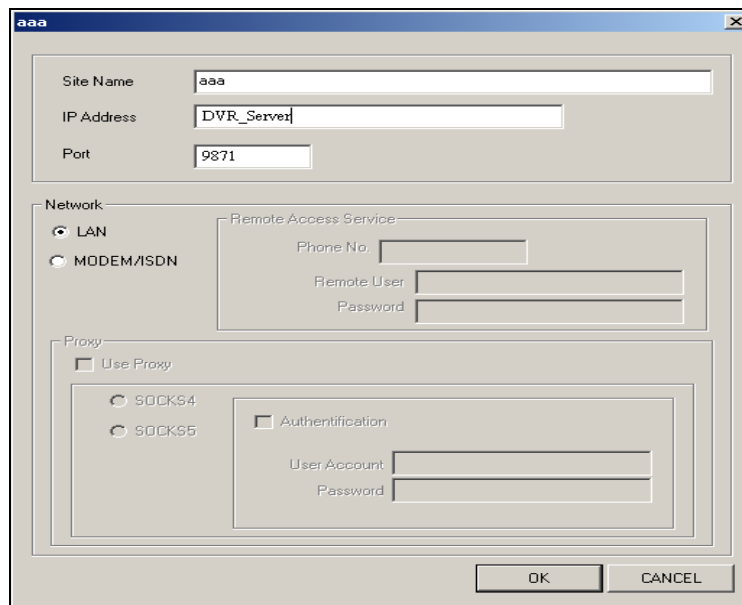
- DNS Server: Insert DNS server IP (use the same as the above, or another if supplied by your dealer).
- Port: Insert Port Number (Default = 9870)
- Time Out: Maximum waiting time for connecting with the server.

@@ You must restart the System for application to begin working.

9.2. RMS Setting (In the RMS software)



- DNS server: Insert the DNS server IP (the same DVR Server)
- Port: Insert Port No (Default = 9870)



- IP Address: Insert the name of your domain registered on the DNS server in DVR Main

10. Log Viewer

Click C:\Programs Files\DVR\Main\LogViewer.exe, or Start/Programs/DVR/Main/Log Viewer
 This program shows events, system changes, logins, network connections, and POS logs recorded.

10.1. Event

The screenshot shows the LogViewer application window. The title bar reads 'LogViewer'. The menu bar includes 'File(E)', 'Type', 'Option', and 'Help(H)'. The toolbar contains icons for 'refresh', 'event', 'system', 'login', 'network', 'pos', 'print', 'filter', and 'info'. On the left, a tree view shows log files: 'log07222004', 'log07232004', 'log07242004', 'log07252004', and 'log07262004' (selected). The main area is a table with the following columns: Time, Device, Event, and Information.

Time	Device	Event	Information
07/26/2004 18:10:14:217	Camera3	Motion	Information
07/26/2004 18:09:57:421	Camera2	Motion	Information
07/26/2004 18:09:06:858	Camera3	Motion	Information
07/26/2004 18:08:50:108	Camera2	Motion	Information
07/26/2004 18:07:33:671	Camera2	Motion	Information
07/26/2004 18:06:02:249	Camera2	Motion	Information
07/26/2004 18:05:00:077	Camera2	Motion	Information
07/26/2004 18:03:31:889	Camera2	Motion	Information
07/26/2004 18:01:18:561	Camera2	Motion	Information
07/26/2004 17:59:37:264	Camera2	Motion	Information
07/26/2004 17:56:24:827	Camera2	Motion	Information
07/26/2004 17:53:57:717	Camera2	Motion	Information
07/26/2004 17:52:42:905	Camera2	Motion	Information
07/26/2004 17:51:23:124	Camera2	Motion	Information
07/26/2004 17:45:07:858	Camera2	Motion	Information
07/26/2004 17:42:52:686	Camera2	Motion	Information
07/26/2004 17:36:30:686	Camera2	Motion	Information
07/26/2004 17:23:39:780	Camera2	Motion	Information
07/26/2004 17:17:58:311	Camera2	Motion	Information
07/26/2004 17:16:45:405	Camera2	Motion	Information
07/26/2004 17:15:24:780	Camera2	Motion	Information
07/26/2004 17:14:23:124	Camera2	Motion	Information
07/26/2004 17:12:26:280	Camera2	Motion	Information
07/26/2004 17:11:10:061	Camera2	Motion	Information
07/26/2004 17:10:00:999	Camera2	Motion	Information
07/26/2004 17:06:10:421	Camera2	Motion	Information
07/26/2004 17:05:06:671	Camera2	Motion	Information
07/26/2004 17:03:36:467	Camera2	Motion	Information

Time: The time when the Motion, Sensor or Video Loss event occurred.

Device: Shows the camera associated with the event.

Event: Shows the type of event that occurred.

Information: Displays the reason for logging the event as follows

- 1) Information: This shows information occurred.
- 2) Warning: This shows warning occurred.
- 3) Error: This shows error occurred.

*** Double click on the log list and you can view related video in Playback. If you are prompted for the logon window to run Playback, type the User and Password.*

*** One click on the log list will record a Bookmark of the Playback. See Section 4.1.10*

10.2. System

The screenshot shows the LogViewer application window. The title bar reads 'LogViewer'. The menu bar includes 'File(E)', 'Type', 'Option', and 'Help(H)'. The toolbar contains icons for 'refresh', 'event', 'system', 'login', 'network', 'pos', 'print', 'filter', and 'info'. The main area displays a table of log entries. The left sidebar shows a list of log files, with 'log07262004' selected. The table has the following columns: Time, Event, Mode, and Information. The data rows show various system events such as 'DVR Search Program Exit', 'DVR Search Program Start', 'Changing Setup', 'PlugIn Load', 'Service Restart', 'Start Monitor', 'Video Initialize', 'Video Uninitialize', 'PlugIn Unload', 'Set Values', 'Load Values', 'Network Service Start', 'PlugIn Load', 'DVR Viewer Program Start', 'Device Load', 'DVR Main Program Start', 'DVR Main Program Exit', 'Device Unload', 'PlugIn Unload', 'Video Uninitialize', 'Network Service Stop', and 'Network Service Start'. The status bar at the bottom shows '??' and 'NUM'.

Time	Event	Mode	Information
07/26/2004 18:10:43:264	DVR Search Program Exit	Local	Information
07/26/2004 18:10:35:655	DVR Search Program Start	Local	Information
07/26/2004 18:09:07:467	Changing Setup	Local	Information
07/26/2004 18:09:06:999	PlugIn Load	Local	Information
07/26/2004 18:09:06:999	Service Restart	Local	Information
07/26/2004 18:09:05:311	Start Monitor	Local	Information
07/26/2004 18:09:05:139	Video Initialize	Local	Information
07/26/2004 18:09:04:811	Video Uninitialize	Local	Information
07/26/2004 18:09:00:671	PlugIn Unload	Local	Information
07/26/2004 18:09:00:671	Service Restart	Local	Information
07/26/2004 18:09:00:671	Set Values	Local	Information
07/26/2004 18:08:50:421	Load Values	Local	Information
07/26/2004 17:54:33:499	Load Values	Local	Information
07/26/2004 17:53:11:311	Load Values	Local	Information
07/26/2004 15:14:11:124	Network Service Start	Local	Information
07/26/2004 15:14:11:124	PlugIn Load	Local	Information
07/26/2004 15:14:09:749	DVR Viewer Program Start	Local	Information
07/26/2004 15:14:09:436	Start Monitor	Local	Information
07/26/2004 15:14:09:405	Load Values	Local	Information
07/26/2004 15:14:09:249	Video Initialize	Local	Information
07/26/2004 15:14:08:733	Device Load	Local	Information
07/26/2004 15:14:07:858	DVR Main Program Start	Local	Information
07/26/2004 14:56:47:608	DVR Main Program Exit	Local	Information
07/26/2004 14:56:47:608	Device Unload	Local	Information
07/26/2004 14:56:47:608	PlugIn Unload	Local	Information
07/26/2004 14:56:47:592	Video Uninitialize	Local	Information
07/26/2004 14:56:46:280	Network Service Stop	Local	Information
07/26/2004 14:54:46:358	Network Service Start	Local	Information

Time: This column shows the time when the system event occurred.

Event: The events tracked are as follows:

DVR Viewer Program Start	DVR Viewer Program Exit
DVR Main Program Start	DVR Main Program Exit
DVR Search Program Start	DVR Search Program Exit
DVR Backup Program Start	DVR Backup Program Exit
DVR Color Control Start	PlugIn Load
Load Values	Set Values
Service Restart	Device Load
Video Initialize	

Mode: This column shows whether event was a local or remote (LAN) event.

Information: Displays the reason for logging the event as follows

- 1) Information: This shows information occurred.
- 2) Warning: This shows warning occurred.
- 3) Error: This shows error occurred.

10.4. Network

The screenshot shows the LogViewer application window with a menu bar (File(E), Type, Option, Help(H)) and a toolbar with icons for refresh, event, system, login, network, pos, print, filter, and info. The main area displays a table of log entries. The table has columns for Time, Event, Address, Mode, and Ir. The first two rows of data are visible:

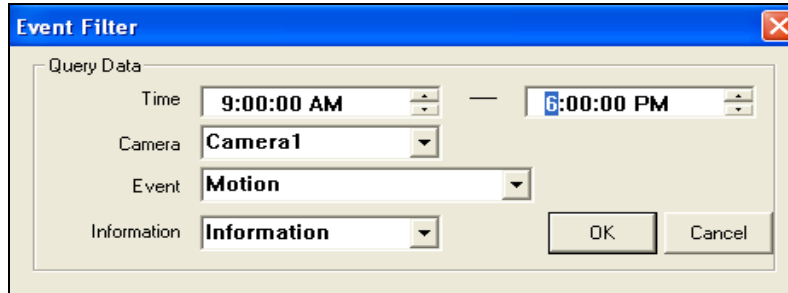
Time	Event	Address	Mode	Ir
07/26/2004 18:07:12:389	RMS Disconnect	192.168.0.10	LAN	Ir
07/26/2004 18:06:48:124	RMS Connect	192.168.0.10	LAN	Ir

The left sidebar shows a list of log files, with 'log07262004' selected. The status bar at the bottom shows 'NUM' and a scroll bar.

- Time:** This column shows the time when the network event occurred.
- Event:** This column shows whether RMS is connected or disconnected.
- Address:** This column shows the IP/Address of RMS connected.
- Mode:** This column shows whether network event was local or remote (LAN).
- Information:** Displays the reason for logging the event as follows
- 1) Information: This shows information occurred.
 - 2) Warning: This shows warning occurred.
 - 3) Error: This shows error occurred.

10.6. Filter

10.6.1. Event



The Event Filter dialog box has a blue title bar with the text "Event Filter" and a close button. Below the title bar is a "Query Data" section with four rows of controls: "Time" with two time pickers set to "9:00:00 AM" and "6:00:00 PM"; "Camera" with a dropdown menu set to "Camera1"; "Event" with a dropdown menu set to "Motion"; and "Information" with a dropdown menu set to "Information". At the bottom right are "OK" and "Cancel" buttons.

Time: Select the start time and end time to search.
Camera: Select the camera number to search.
Event: Select the event to search.
Information: Select the type to search.

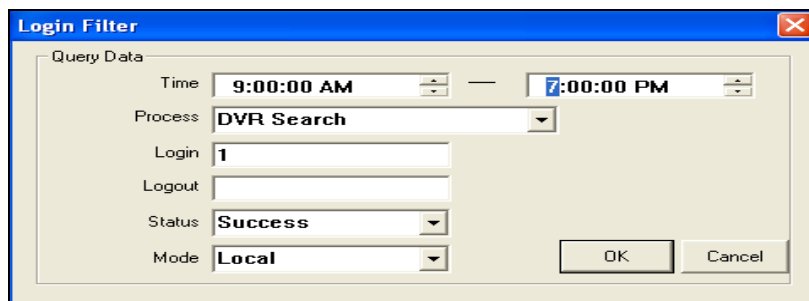
10.6.2. System



The System Filter dialog box has a blue title bar with the text "System Filter" and a close button. Below the title bar is a "Query Data" section with four rows of controls: "Time" with two time pickers set to "9:00:00 AM" and "6:00:00 PM"; "Event" with a dropdown menu set to "Network Service Start"; "Mode" with a dropdown menu set to "Local"; and "Information" with a dropdown menu set to "Information". At the bottom right are "OK" and "Cancel" buttons.

Time: Select the start time and end time to search.
Event: Select the event to search.
Mode: Select the mode to search.
Information: Select the type to search.

10.6.3. Login



The Login Filter dialog box has a blue title bar with the text "Login Filter" and a close button. Below the title bar is a "Query Data" section with six rows of controls: "Time" with two time pickers set to "9:00:00 AM" and "7:00:00 PM"; "Process" with a dropdown menu set to "DVR Search"; "Login" with a text input field containing "1"; "Logout" with an empty text input field; "Status" with a dropdown menu set to "Success"; and "Mode" with a dropdown menu set to "Local". At the bottom right are "OK" and "Cancel" buttons.

Time: Select the start time and end time to search.
Process: Select the program name to search.
Login: Type the Login ID to search.
Logout: Type the Logout ID to search.
Status: Select the status to search.
Mode: Select the mode to search.

10.6.4. Network

Network Filter

Query Data

Time: 9:00:00 AM — 9:00:00 AM

Event: RMS Connect

Address:

Mode: Local

Information: Information

OK Cancel

Time: Select the start time and end time to search.
Event: Select the event to search
Address: Type the IP/Address of RMS to search.
Mode: Select the mode to search.
Information: Select the type to search.

10.6.5. POS

Pos Filter

Query Data

Time: 9:00:00 AM — 9:00:00 AM

Event: OpenDatabase Success

Driver: TicketPro1P

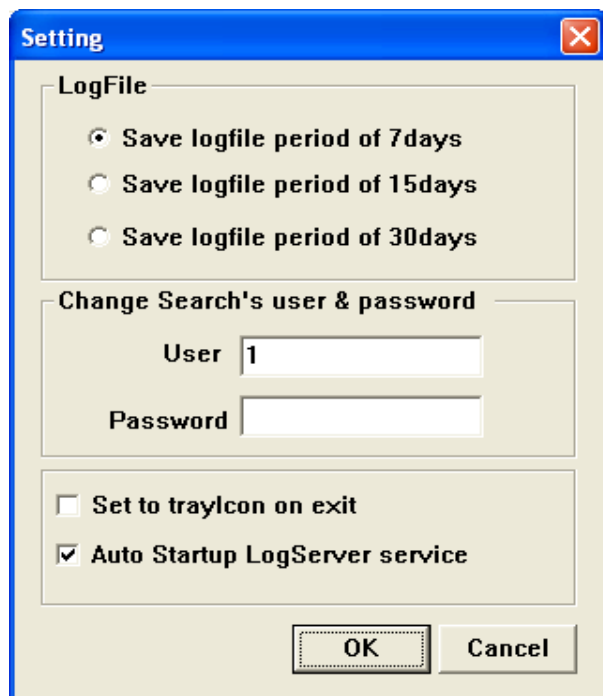
Port: COM1

Information: Information

OK Cancel

Time: Select the start time and end time to search.
Event: Select the event to search
Driver: Select the driver to search.
Port: Select the Port no to search.
Information: Select the type to search.

10.7. Setting



LogFile: Sets the number of days to keep the log file (default = 7 days)

Change Search's user and password: Type User and Password required to run LogFile Search.

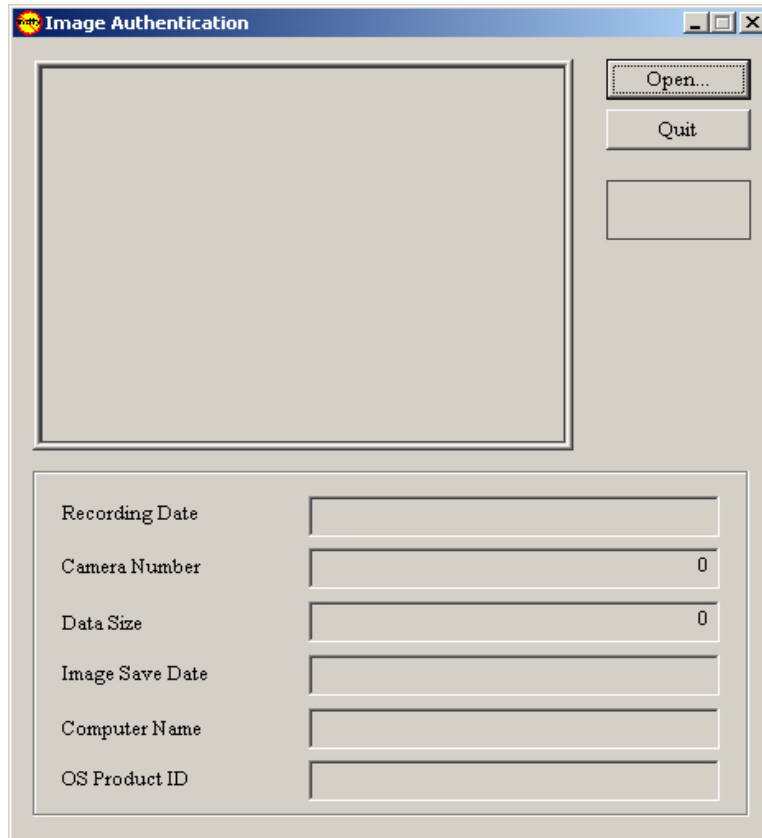
Set to tray icon on exit: If you check this, the program will minimize to the tray icon upon exit.

Auto startup LogServer service: If you uncheck this, you must run the LogServer.exe manually (not recommended)

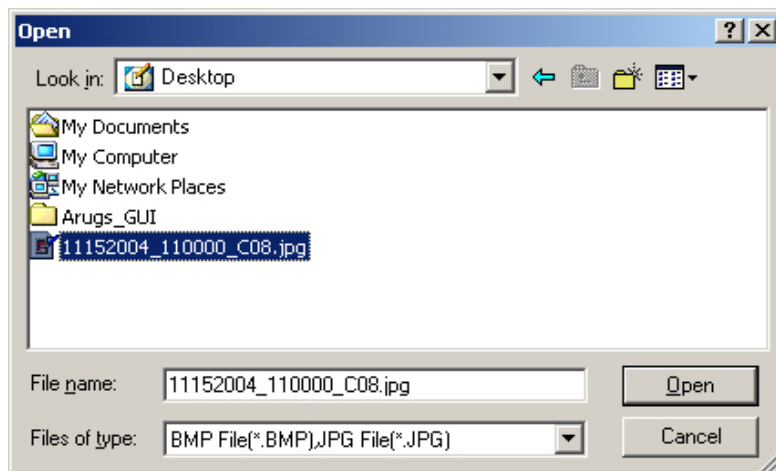
11. Image Authentication

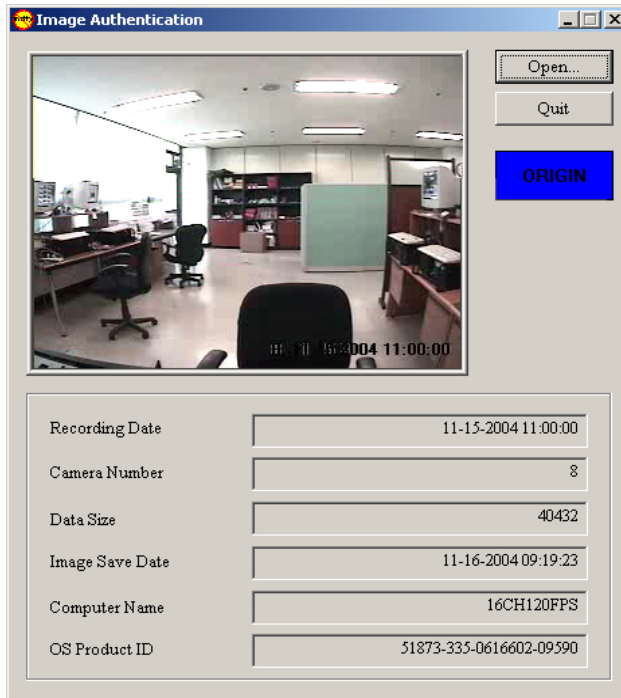
This is a program for authenticating recorded JPG or BMP images in saved from the search program.

Start the “Image Tool” program by clicking Start/Programs/DVR/Tools /Image Authentication, or run the ImgAuth.exe program in C:\Program Files\DVR\CommonFiles\Tools folder.



- 1) Click “Open” to find an image file.
- 2) Select an image file.





ORIGIN: If this is an original, unaltered image, the image data will appear on the screen and the “Origin” notification will appear.

This is a modified image.

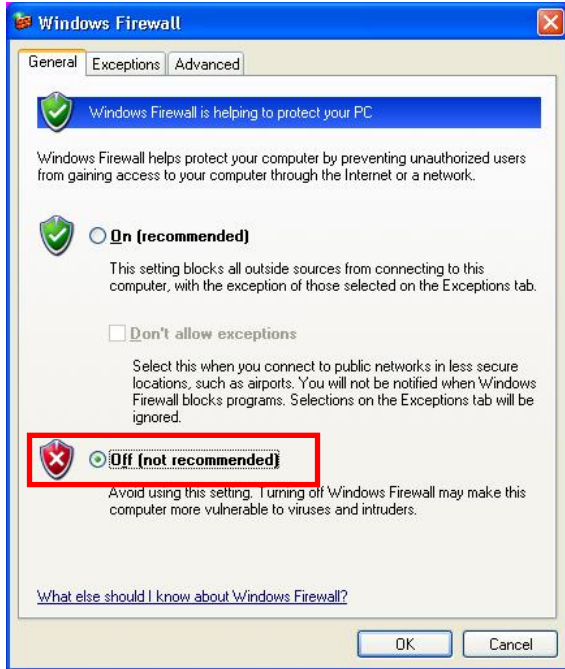


12. Web-RMS (for End User)

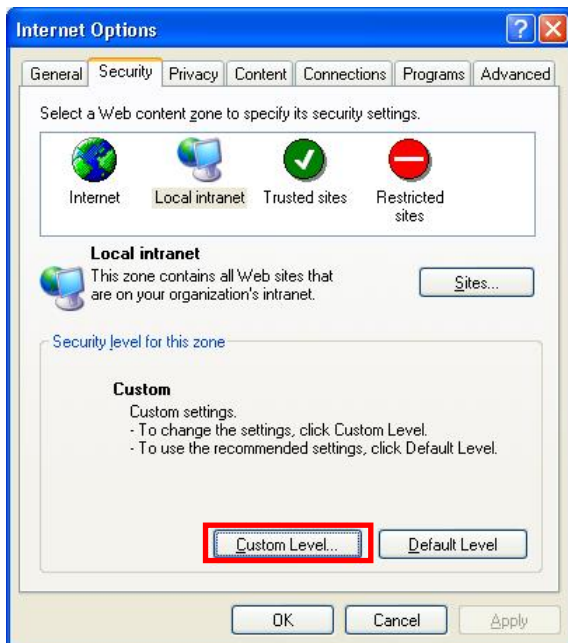
12.1. Setting for Web-RMS Connection

In order to use the Web-RMS connection, set the system as below before using the service.

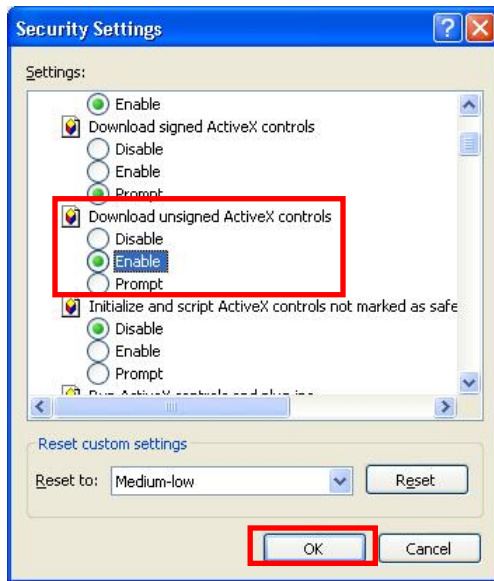
From the DVR server, go to Start/Settings/Control Panel/Windows Firewall and set to "Off".



On the Remote Side, run Internet Explorer, Tools/Internet Option/Security/Custom Level (select).

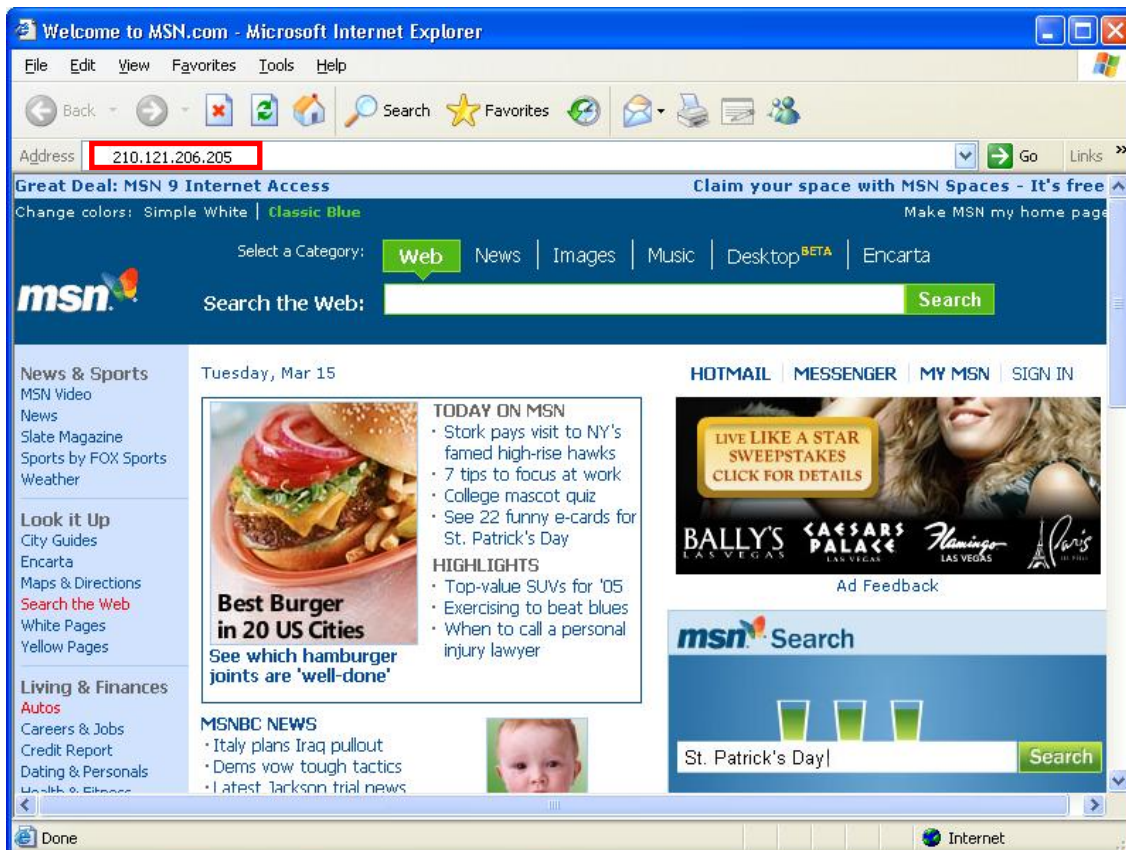


Set "Download unsigned ActiveX controls" to Enable and click "OK".

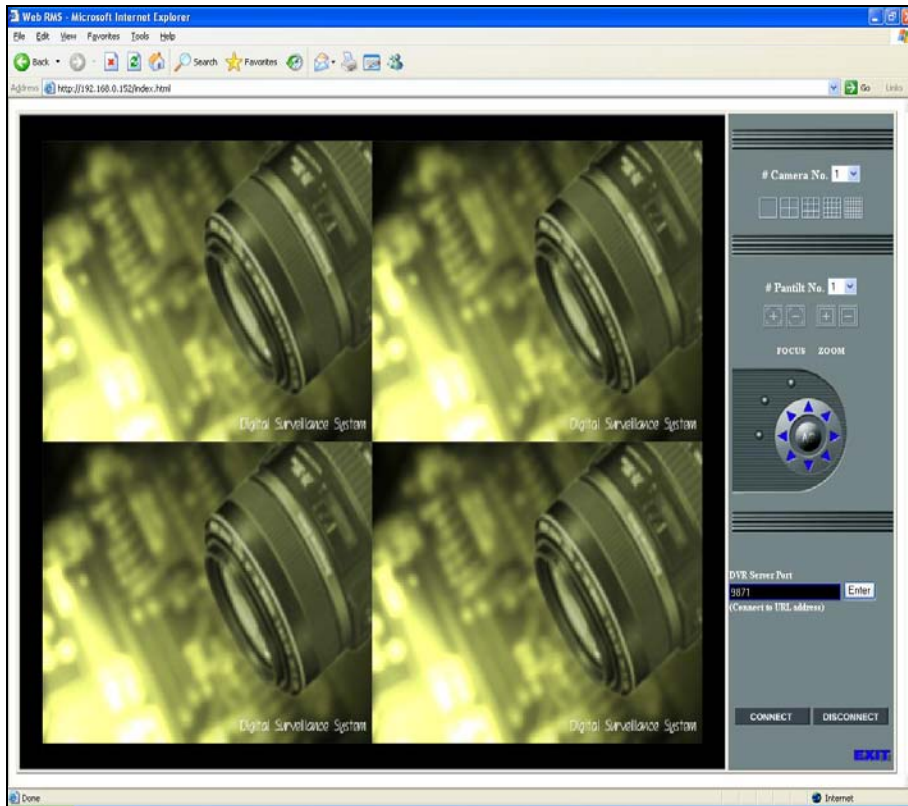


12.2. Connect to Server

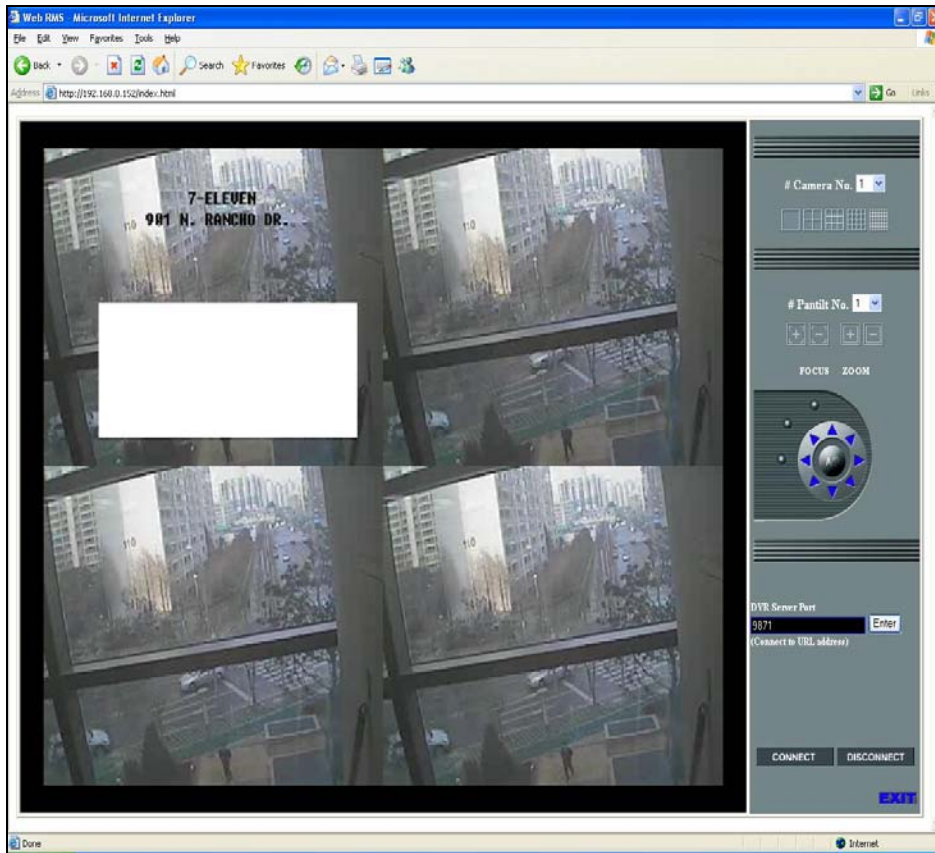
1) Run Internet Explorer and the server's IP address



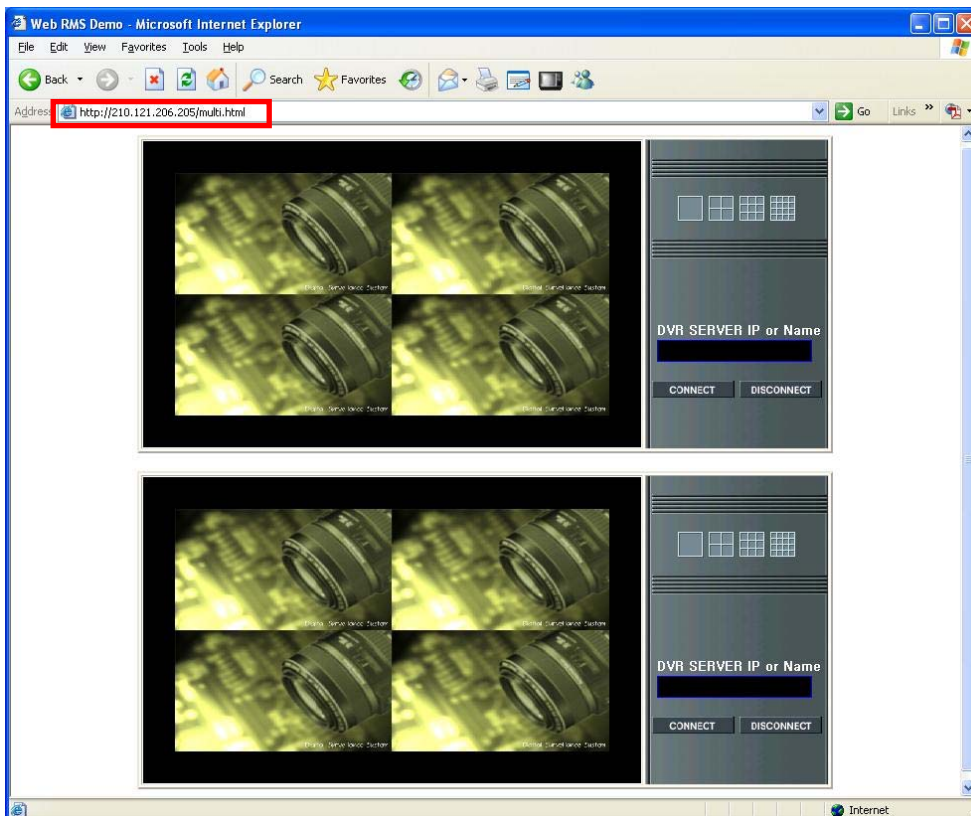
Note. If following window appears, please recheck the above steps and try again.



2) Click "Enter" button.



3) To connect to two different servers, type "IP Address/muti.html" (i.e., 210.121.206.205/multi.html)



4) You can connect with two DVR servers as follows:



**** If you want to use Web-RMS through the WAN(Internet), you have to forward the port number 80 to connect on DVR server side before anything else.**

13. NVR setting

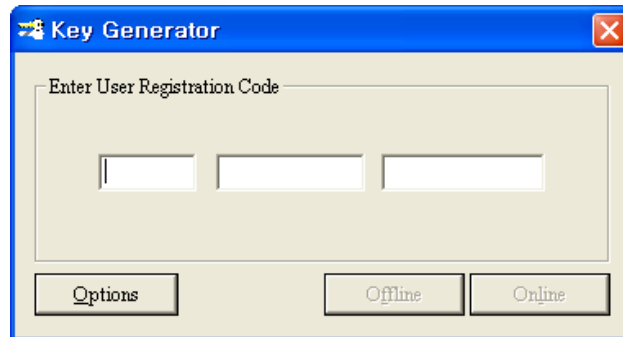
13.1. Activate NVR

After installation of NVR, you have to activate the NVR with the license key if you don't have our capture card or DIP/DIC series/IP100 product. If you don't activate, NVR will run as demo version. (only 7 days available).

To activate NVR choose the C:\Program Files\DVR\main\ActivateNVR.exe

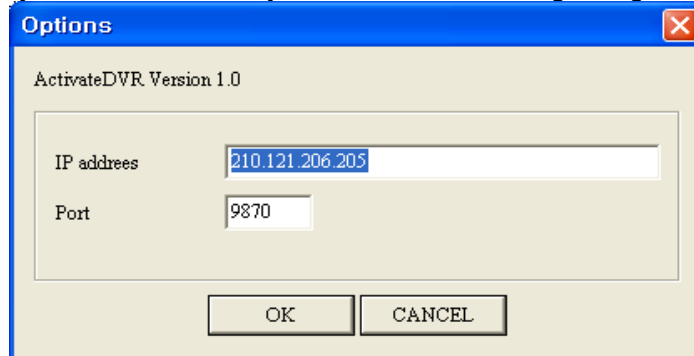
13.1.1. How to register license code

Enter the Registration code into the following Dialog Box. Registration code can be received by ours when you buy NVR.



- Options Button

If you click this button, you can see the following dialog box.



IP address & Port

It is the information used when you activate NVR via Online.

It's a our License Server IP address & Port, and usually you don't need to change it.

- Online Button

If your NVR is connected to internet, click online button. All activation processing is going automatically.

- Offline Button

If your NVR is not connected to internet, click offline button. And save the information in the files, and send the files to us. We will check the files and then send the license.aut file to you. You should copy the license.aut file into the c:\program files\DVR\main directory.

13.1.2. Backup License.aut file

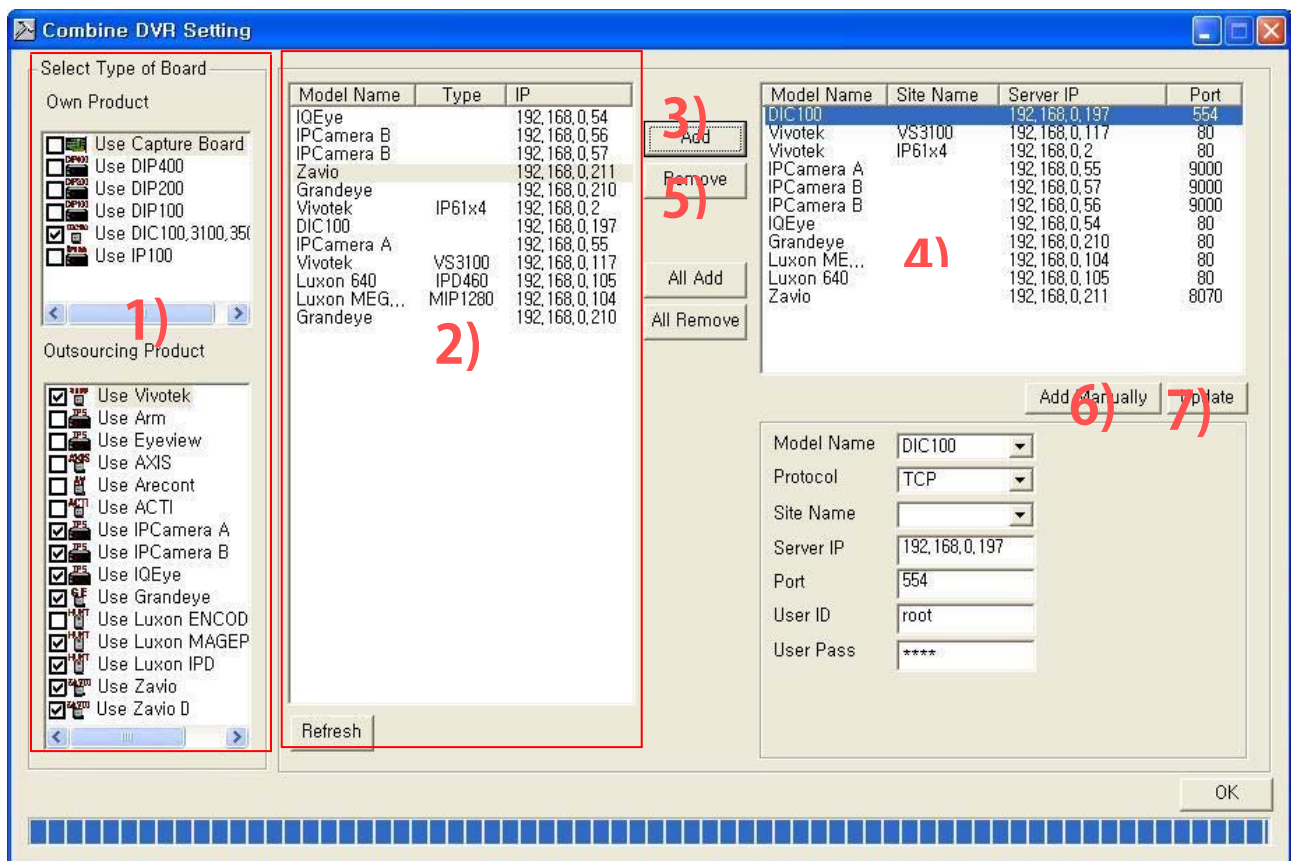
When you remove the system O/S or the NVR Software, you have to backup the license.aut file (c:\program files\DVR\main directory).

And after re-setup the system, copy the backup file into the original directory (c:\program files\DVR\main directory). And then you can use NVR again with license. But if you didn't backup the license.aut file you have to reactivate NVR (See above 13.1.)

License.aut file have information about system network card. So, If you change your network card, you have to reactivate NVR (See above 13.1.)

13.2. IPCameraSetting

IPCameraSetting is a utility program for NVR products.
Run "Start->Programs->DVR->Main->IP Camera Setting".



- 1) Select Type of Board – First check items a user wants to use for combining.
e.g) When a user wants to combine both Capture Board and DIP400, select “Use Capture Board” and “Use DIP400” items.
We just support VS3100 and IP61x4 among Vovotek’ model
Note: Outsourcing Products need the License Key.
- 2) IPCameraSetting scans IP Products immediately when it starts. A user can force scanning by pressing Refresh button. If a user wants to change IP of IP Products, refer to 134 page.
- 3) Add: If a user wants to use DIP400, after tick “Use DIP400” and select DIP 400 item on the second list, click “Add” button.

- 4) It will be shown items a user added to use.
- 5) Remove: If a user wants to cancel usage of IP products to be added, after selecting DIP400 item on the third list, click "Remove" button.
- 6) Add manually: If IPCameraSetting can't find IP Products automatically, a user must add it manually. First check item on the first list.

Product	User ID	Used Pass	Protocol	Port
DIP/DIC series	root	pass	TCP/UDP	554~557
IP100	admin	pass		2000
Vivotek(IP61x4)	root	root	UDP	
Vivotek(VS3100)	root	root	TCP	
Arm	root	root		9000/9201(pima port)/1
Axis	root	root	HTTP	80
	root	root	RTSP	554/30000(rtp port)
Arecont				80
ACTi	Admin	123456		6000/6001/6002 5000/80/7070/5000/5002 6005/6006/228.5.6.1/0
Veilux I IPCamera A or B	root	root		9000/9201(pima port)/1
IQeye	root	system	HTTP	80
Luxon	admin	admin	HTTP	80
Grandeye	admin	admin	HTTP	80
Zavio	admin	admin	HTTP	80/8070(MJPEG)/8090(MPEG4)
ZavioD	admin	admin	HTTP	80/8070(MJPEG)/8090(MPEG4)

① DIP Series have User ID: **root**, User pass: **pass**, Firmware V427 or higher.

In earlier Firmware V427 version, User ID: **admin**, User pass: **pass**

② DIP' default port is **554~557**. e.g) DIP400: 1ch-554, 2ch-555, 3ch-556, 4ch-557

DIP100 is 554 (add one time) / DIP200 is 554, 555 (add two times) / DIP400 is 554, 555, 556, 557 (add four times) / DIC series is 554 (add one time)

③ IP100: User ID: admin, User Pass: pass, Port: 2000

④ Vivotek: IP61x4 - UDP, VS3100 – TCP

⑤ Axis: If IPCameraSetting program can't scan IP of AXIS, download AXIS IP Utility in

<http://www.axis.com/techsup/software/iputility/index.htm>

And add IP of AXIS manually. (AXIS' default port is **80**)

⑥ Arecont: No need User ID, User Pass

⑦ Acti: User ID: Admin, User Pass: 123456

Register Port: 6000, Control Port: 6001, Streaming Port: 6002

Multicast Port: 5000, Http Port: 80, RTSP Port: 7070,

Video RTP OM: 5000, Audio RTP OM: 5002, S Port C2S: 6005, S Port S2C: 6006

Multicast IP: 228.5.6.1, channel: 0(based 0)

⑧ Arm:

- User ID: root, User Pass: root, Port: 9000
- Mac: Mac address of IPserver.
- DNS: DNS address
- Pima: IP of Pima server(Onixhq.com)
- Pima port: 9201(default)
- User can select method to connect to IPsever.(IP or Mac or DNS)

⑨ Veilux A, Veilux B:

- User ID: root, User Pass: root, Port: 9000
- Mac: Mac address of IPserver.
- DNS: DNS address
- Pima: IP of Pima server(Pima1.net)
- Pima port: 9201(default)
- User can select method to connect to IPsever.(IP or Mac or DNS)

Model Name	IPCamera A	
Protocol	TCP	
Site Name		
Server IP	192.168.0.55	IP/Mac IP
Port	9000	Mac 0006975007D7
User ID	root	DNS
User Pass	****	Pima pima1.net
Channel	1	Pima Port 9201

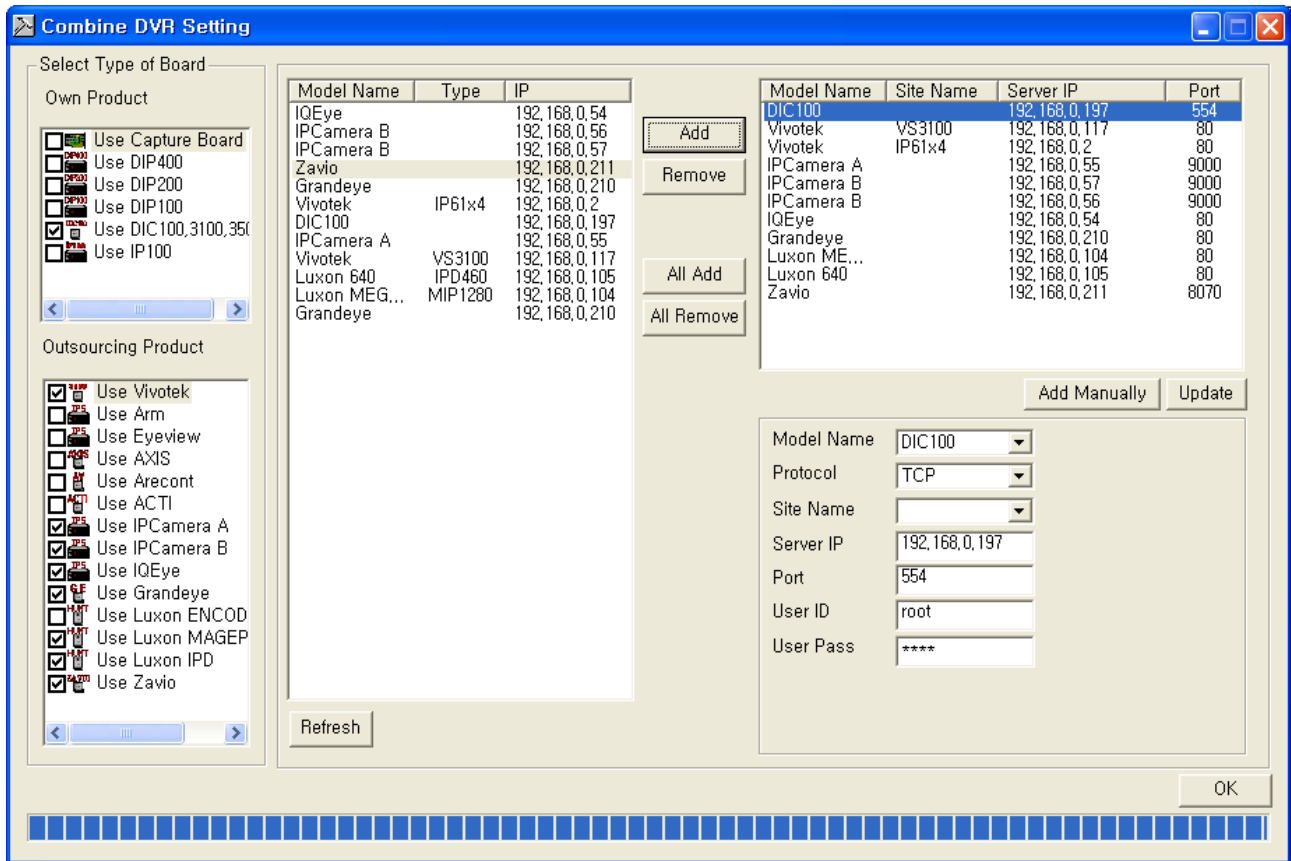
Model Name	IPCamera A	
Protocol	TCP	
Site Name		
Server IP	192.168.0.55	IP/Mac MAC
Port	9000	Mac 0006975007D7
User ID	root	DNS
User Pass	****	Pima pima1.net
Channel	1	Pima Port 9201

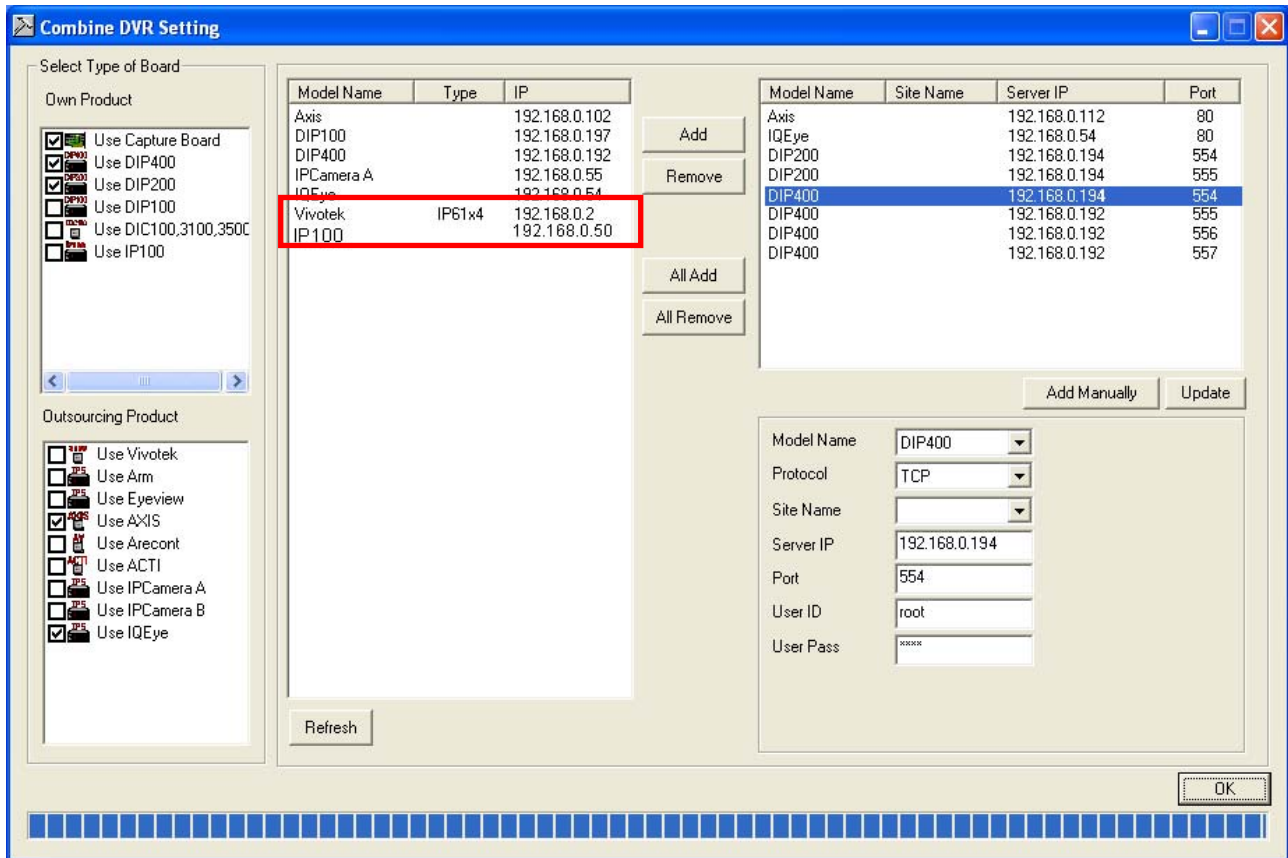
Model Name	IPCamera A	
Protocol	TCP	
Site Name		
Server IP	192.168.0.55	IP/Mac DNS
Port	9000	Mac 0006975007D7
User ID	root	DNS 211.108.62.38
User Pass	****	Pima pima1.net
Channel	1	Pima Port 9201

⑩ IQeye: User ID: root, User Pass: system, Port: 80

- ⑪ Grandeye: User ID: admin, User Pass: admin, Port: 80
- ⑫ Luxon: User ID: admin, User Pass: admin, Port: 80
- ⑬ Zavio : Use ID: admin, User Pass: admin, Port:80, MJPEG port:8070, MPEG4 port:8090
- ⑭ ZaviD : Use ID: admin, User Pass: admin, Port:80, MJPEG port:8070, MPEG4 port:8090

7) If a user wants to change Site Name, Protocol, User ID, User Pass, click list and click “Update” button.

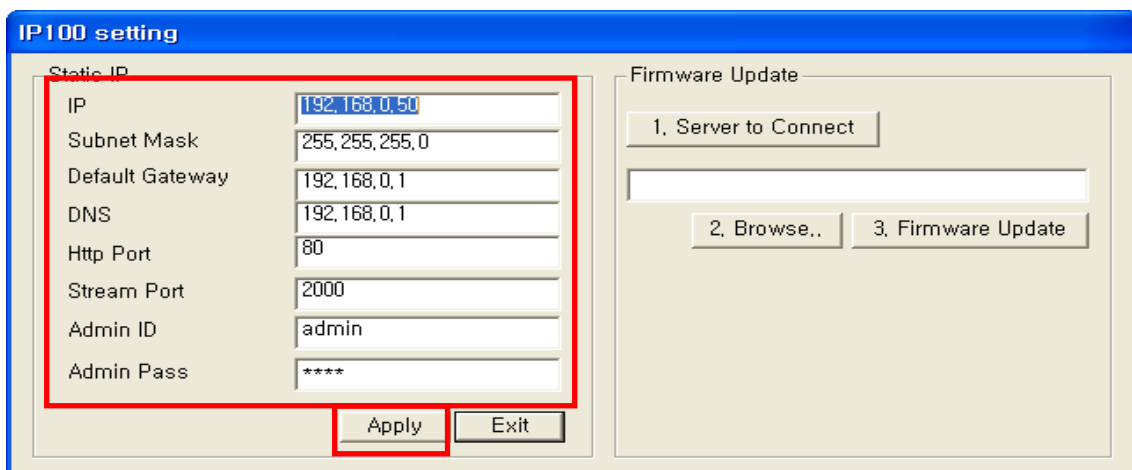




1) It will scan IP Server (DIP400, DIP200, DIP100, IP100, Vivotek, Eyeview, Axis and so on) through network at first.

A. IP100

- ① When a user wants to change IP of IP100, double click item of the second List
- ② Information of the Item will be displayed as follows.

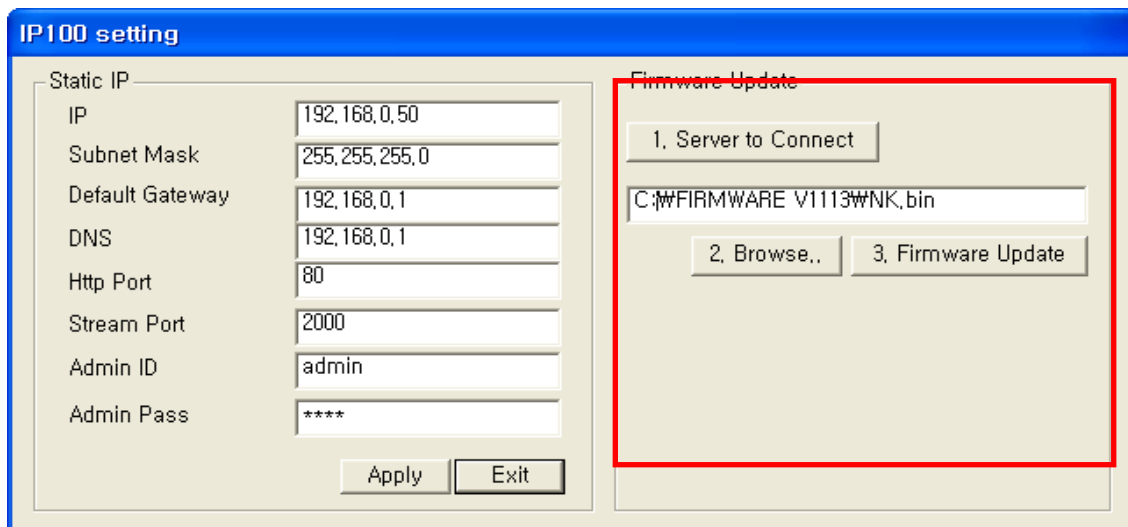


- ③ You have to change IP, Default Gateway
 - A. Stream Port is 2000 (must same)
 - B. Admin ID : **admin** (must same)
 - C. Admin Password : **pass** (must same)

- ④ And then Click “Apply” button



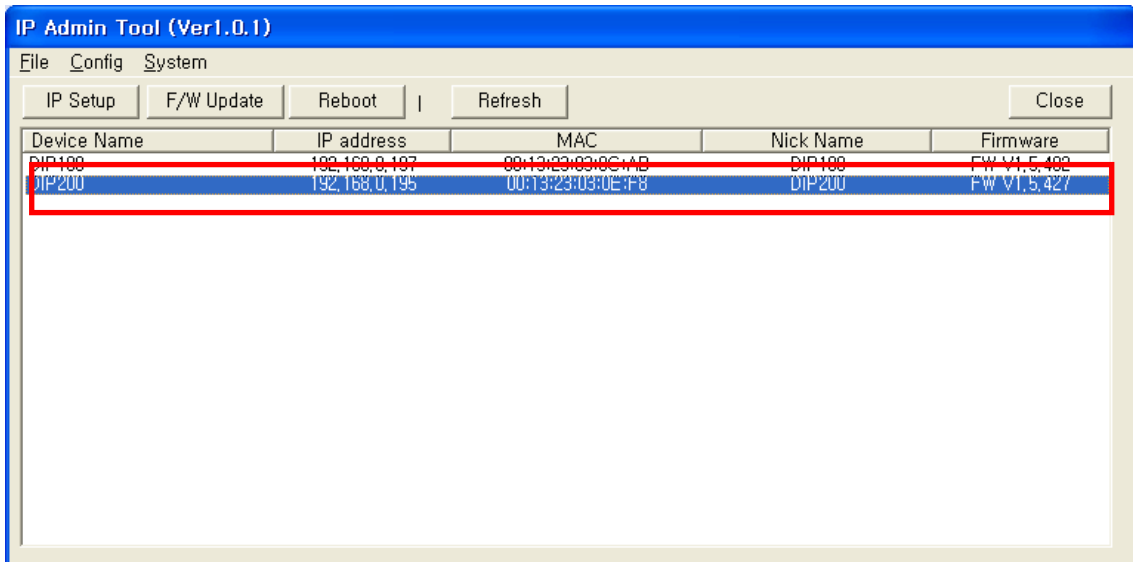
- ⑤ Click “OK” button.
⑥ Firmware update.



- ⑦ Click “1. Server to Connect” button
⑧ Click “2. Browse..” button and find NK.bin file.
⑨ Click “3. Firmware Update” button.
⑩ Click “Refresh” button”

B. DIPSeries

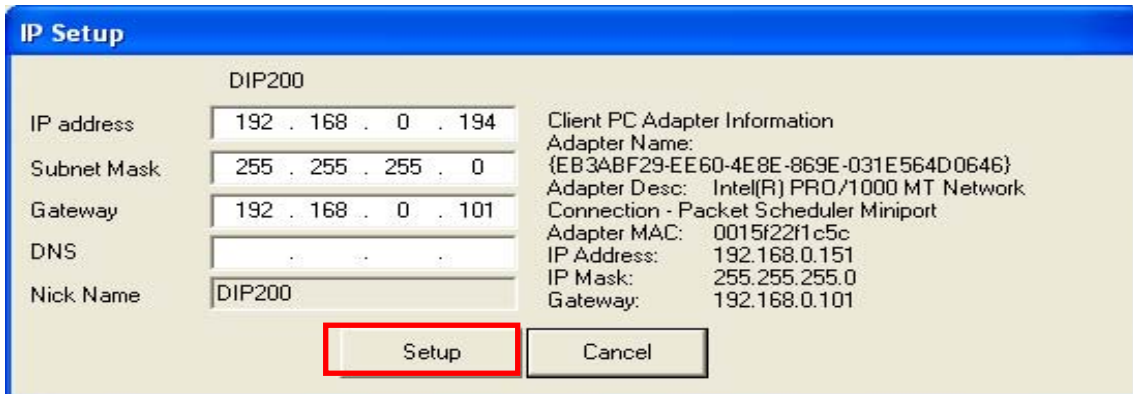
- ① When a user wants to change IP of DIPSeries, double click item of the second List
- ② Information of the Item will be displayed as follow. This program is IpAdminTool.exe in C:\Program Files\DVR\Main.
- ③ DIP does not support ADSL now. However if a user wants to use ADSL, a user must use Router, have static IP. A user has to set port forwarding in Router (from 554 to 557)



- ④ A user can also see the detailed information of device as double clicking the device on the list.



- 1) IPSetup - Click "IPSetup" button for setting.

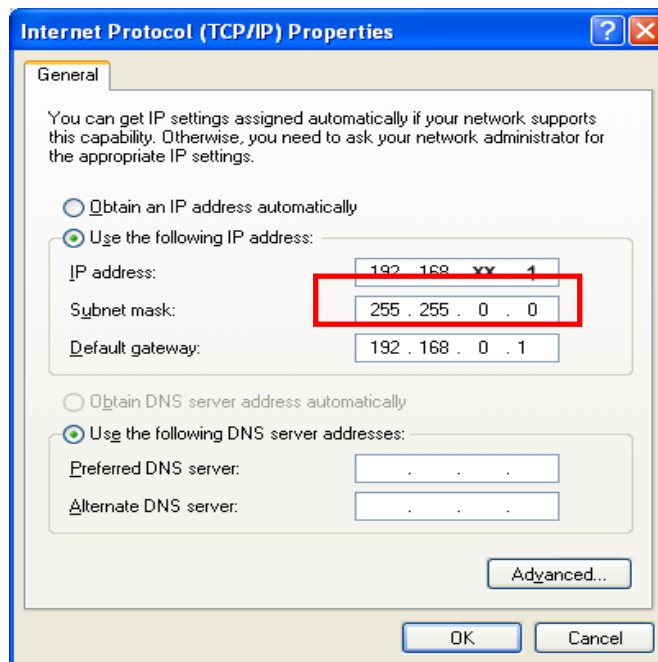


click "Setup" button after configuration is changed

- DIP / DIC Default Settings
 - : IP address: 192.168.0.xxx
 - : Subnet mask: 255.255.255.0
 - : Gateway: 192.168.0.101
 - : User ID: root
 - : Password: pass

When a user tried to press "Reset" button, DIP is back to default value. If subnet mask of your computer is not 255.255.0.0, change your IPAddress, Subnet mask for setting.

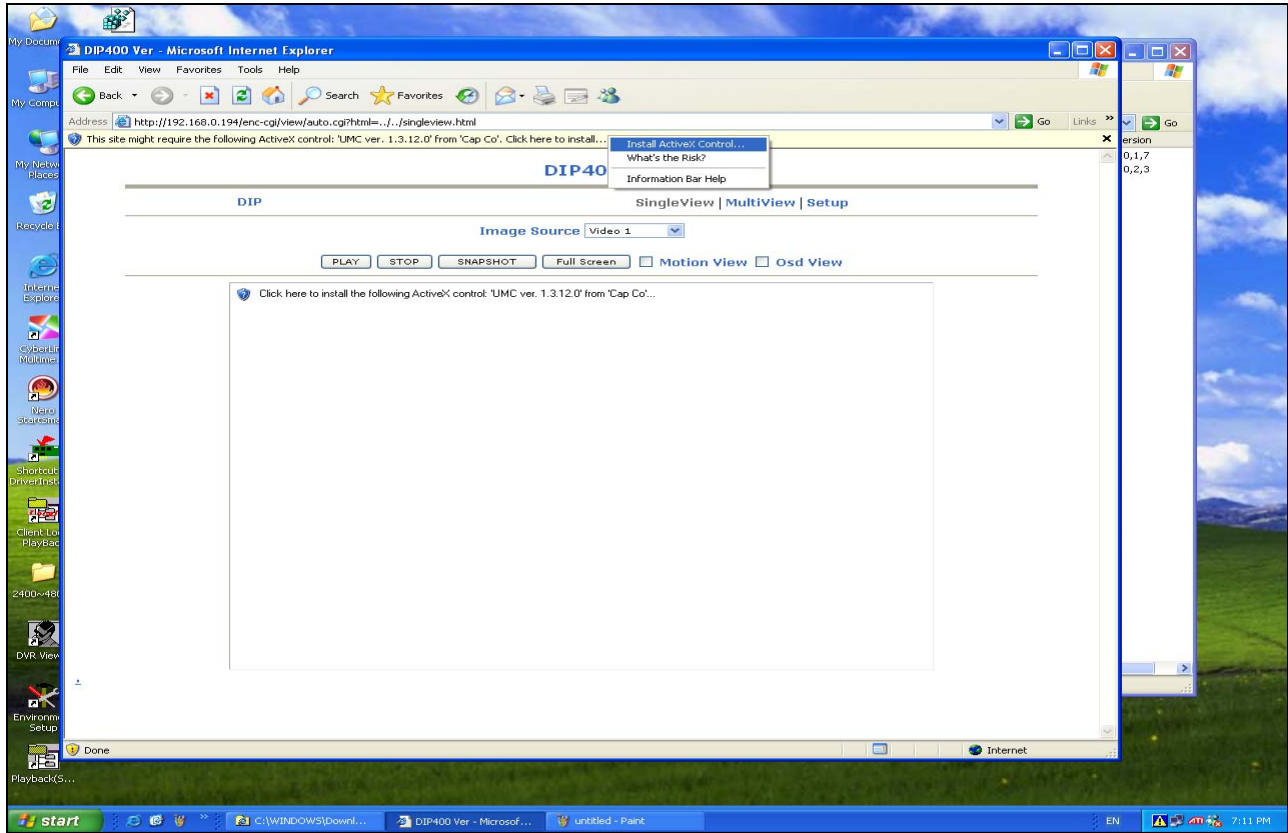
- DIP / DIC Factory default settings are as follows:
 - : IP address: 192.168.xx.yyy (Refer to MAC of DIP)
 - e.g) MAC: 00:13:23:03:14:5A -> (192.168.20.90)
 - : Subnet mask: 255.255.0.0
 - : Gateway: 192.168.0.1
 - : User ID: root
 - : Password: pass



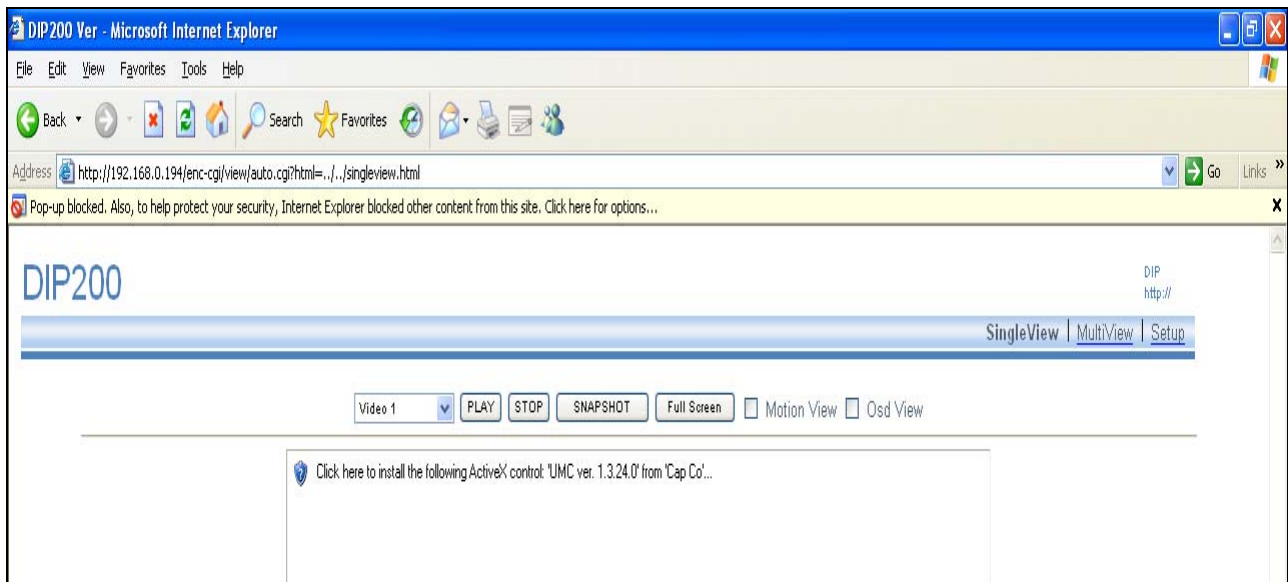
4) WebPage

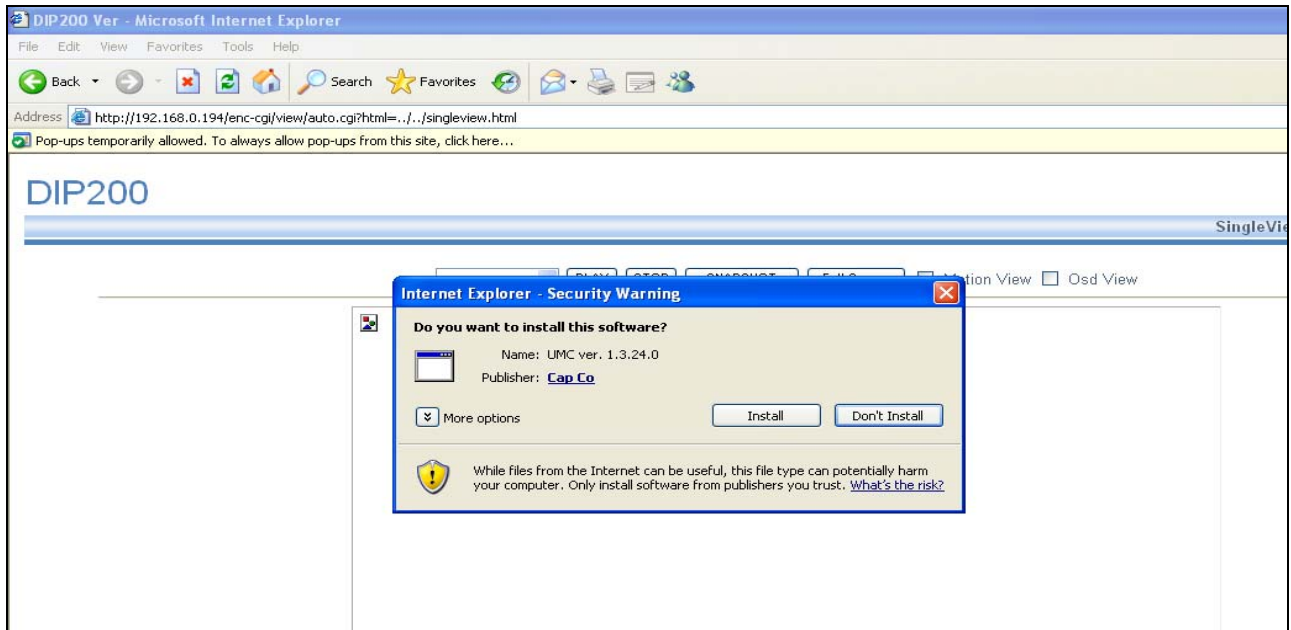
You need to install ActiveX for displaying image.

This is displayed in earlier Firmware V600 version.

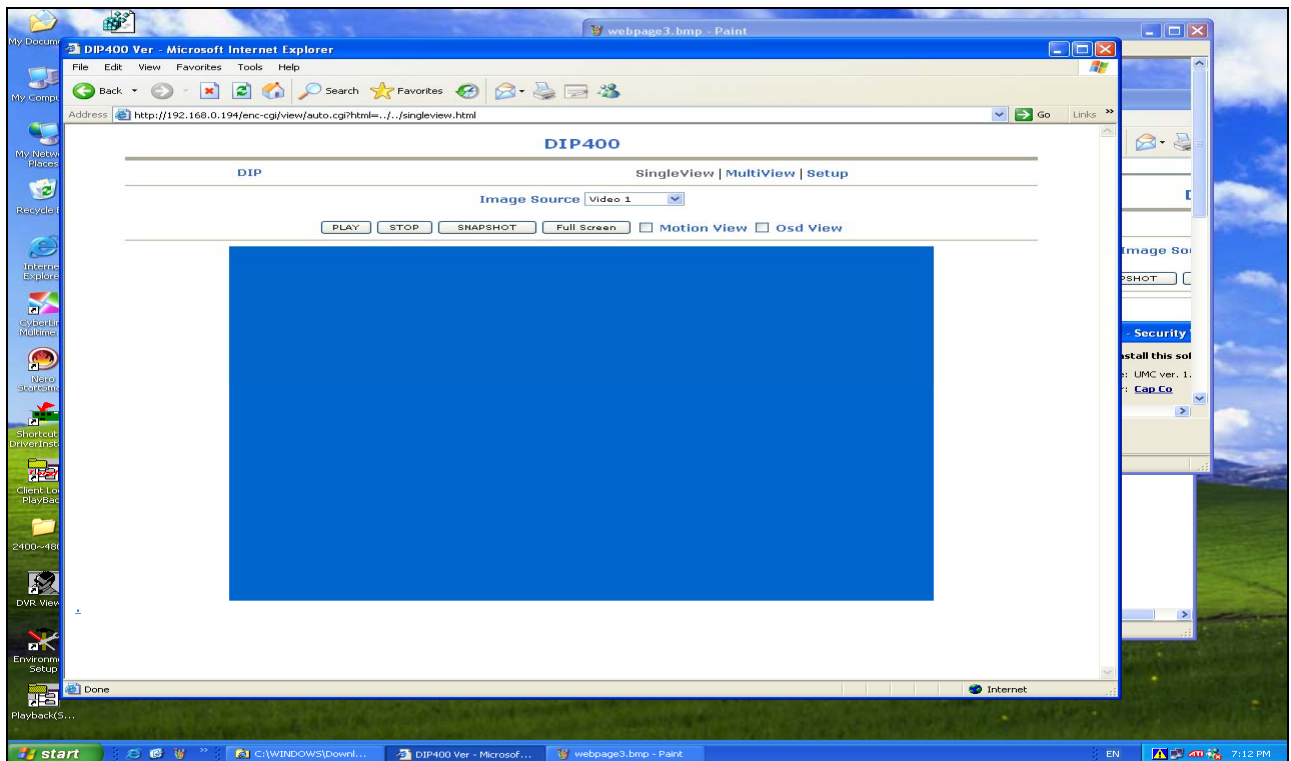


This is displayed in after Firmware V600 version.





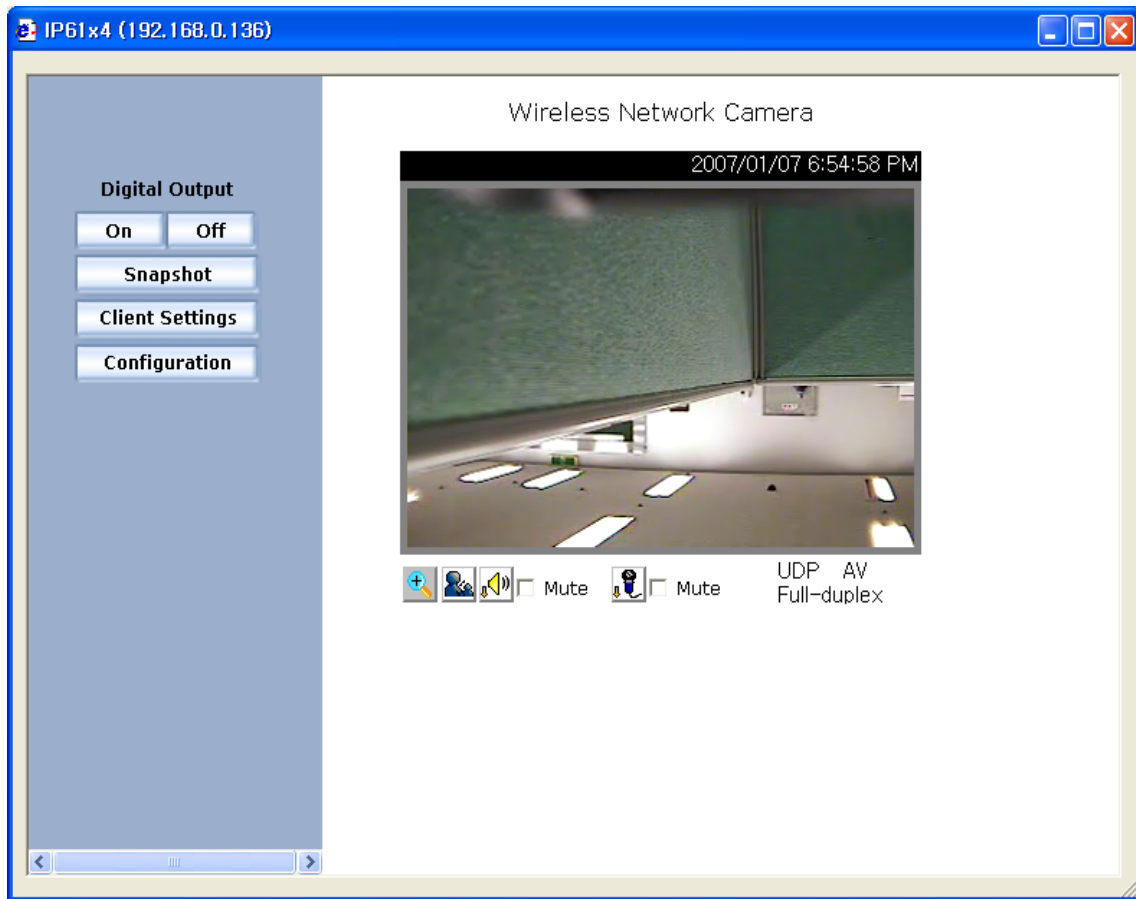
This webpage is successfully installed ActiveX.



Note: If you failed to install ActiveX, you need check two things.
 Firstly re-install ActiveX after deleting AxNVE in "C:\Window\Downloaded Program Files"
 Secondly, Upload ActiveX (UMC.cab) to DIP/DIC (Refer to above page-about OCX update)

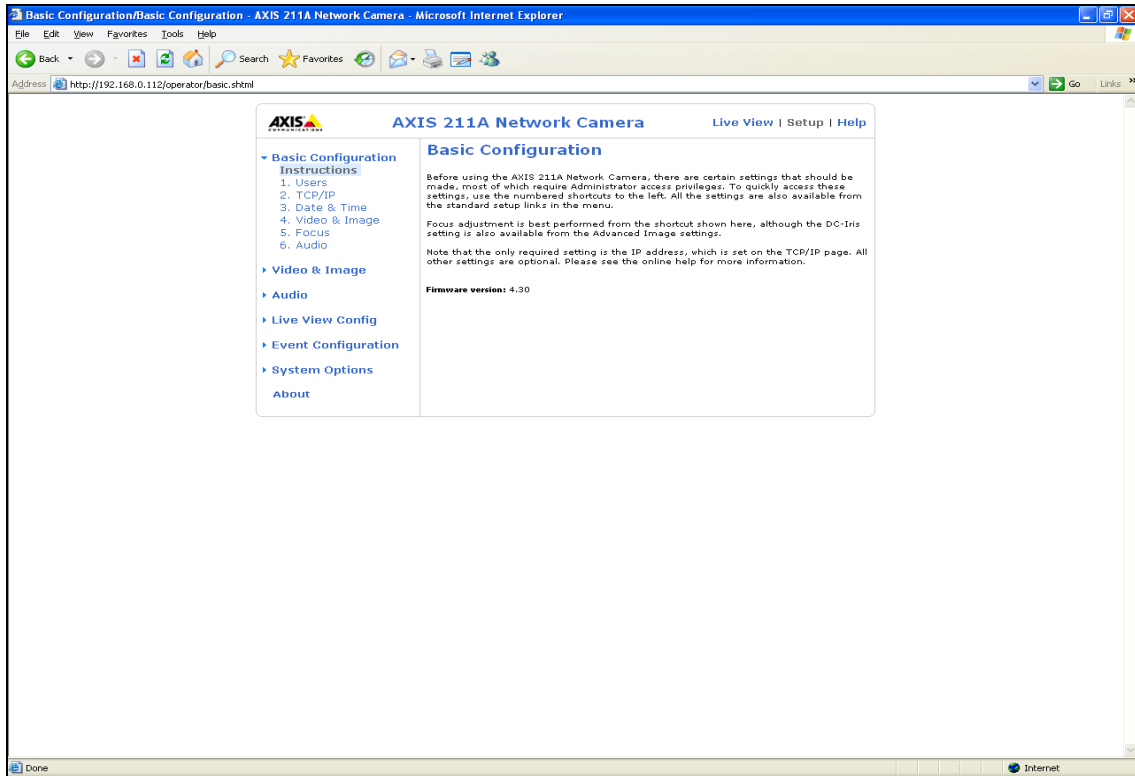
C. Vivotek(IP30)

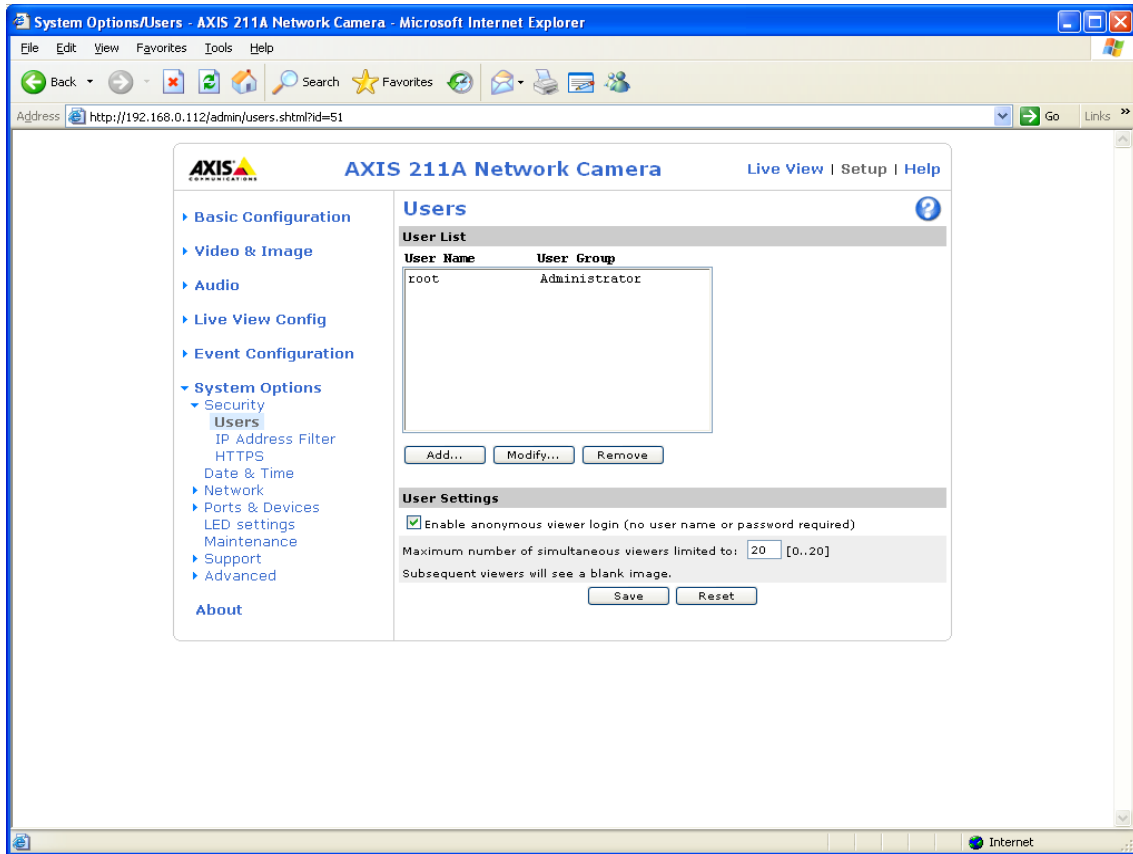
- ① When a user wants to change IP of IP30, double click item of the first List
- ② Information of the Item will be displayed as follows.



D. AXIS

- ① When a user wants to change IP of AXIS, double click item of the second List.
- ② Information of the Item will be displayed as follows





System Options -> Users -> User Settings

** check **Enable anonymous viewer login (no user name or password required)**

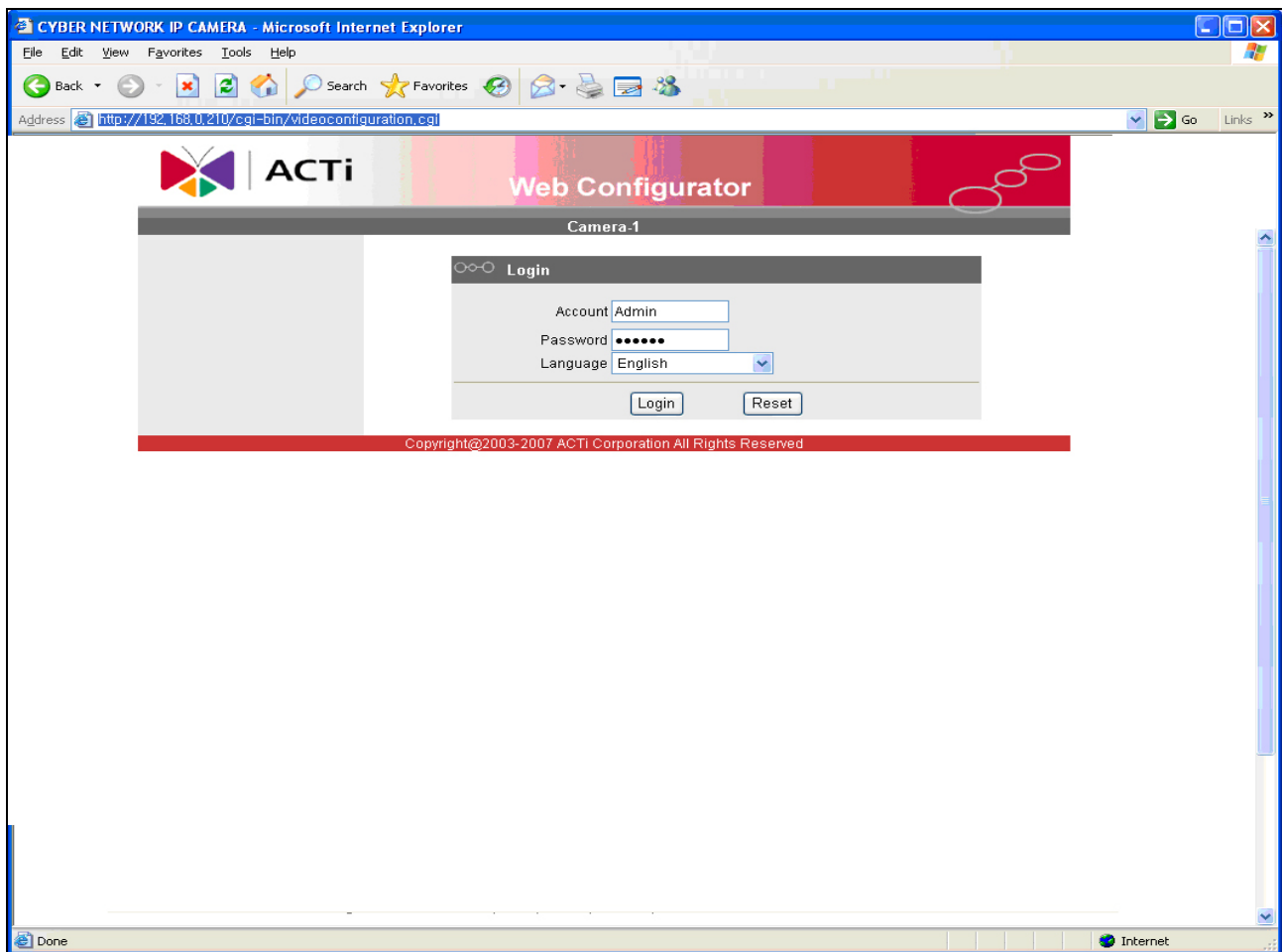
- Available Resolution depends on Model.

320*240	352*288	640*480	704*576
206		206	
207		207	
207W		207W	
207MW		207MW	X
216FD		216FD	
212PTZ		212PTZ	
210	210	210	210
210A	210A	210A	210A
211	211	211	211
211A	211A	211A	211A
221	221	221	221
225FD	225FD	225FD	225FD
223M(4:3)	223M(4:3)	223M(4:3)	223M(4:3)

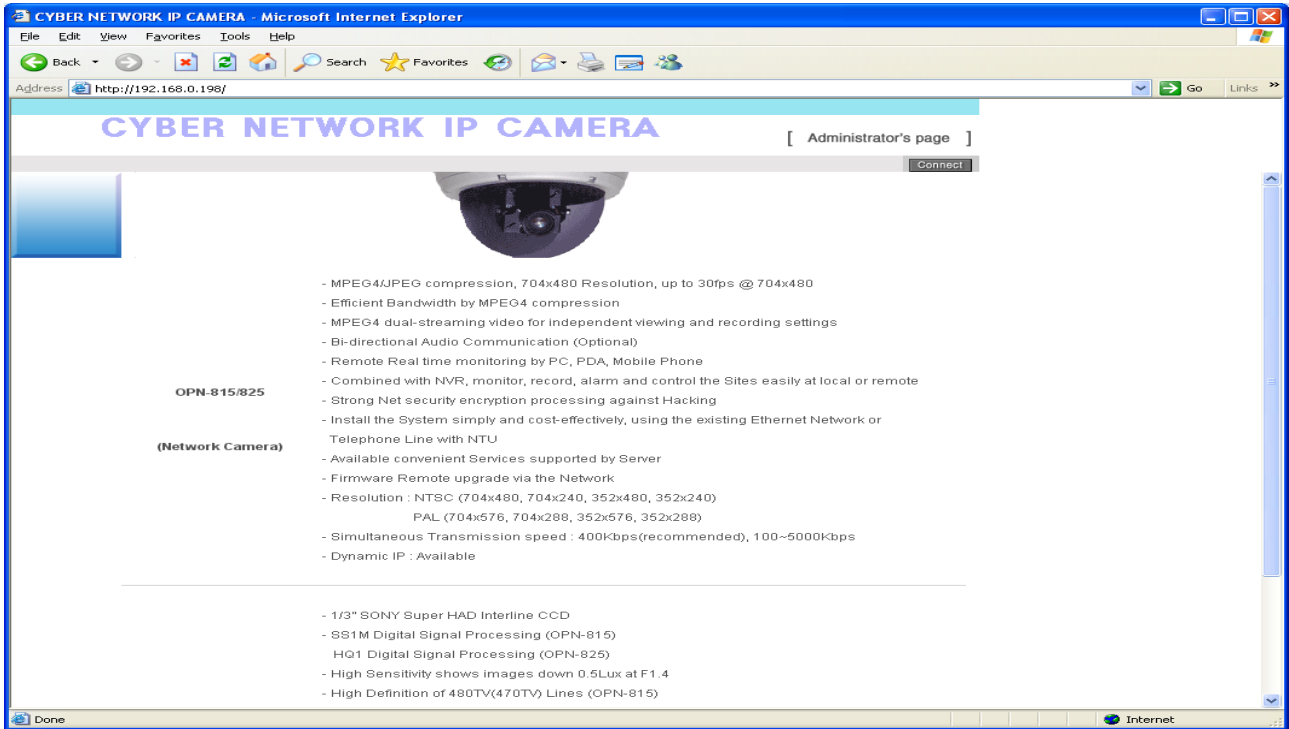
352*240	352*288	704*240	704*288	704*480	704*576
213PTZ	213PTZ	213PTZ	213PTZ	213PTZ	213PTZ
214PTZ	214PTZ	214PTZ	214PTZ	214PTZ	214PTZ
231D+	231D+	231D+	231D+	231D+	231D+
232D+	232D+	232D+	232D+	232D+	232D+
241S	241S	241S	241S	241S	241S
241SA	241SA	241SA	241SA	241SA	241SA
242S IV	242S IV	242S IV	242S IV	242S IV	242S IV
243SA	243SA	243SA	243SA	243SA	243SA
240Q	240Q	240Q	240Q	240Q	240Q
241Q	241Q	241Q	241Q	241Q	241Q
241QA	241QA	241QA	241QA	241QA	241QA
243Q	243Q	243Q	243Q	243Q	243Q

E. ACTI

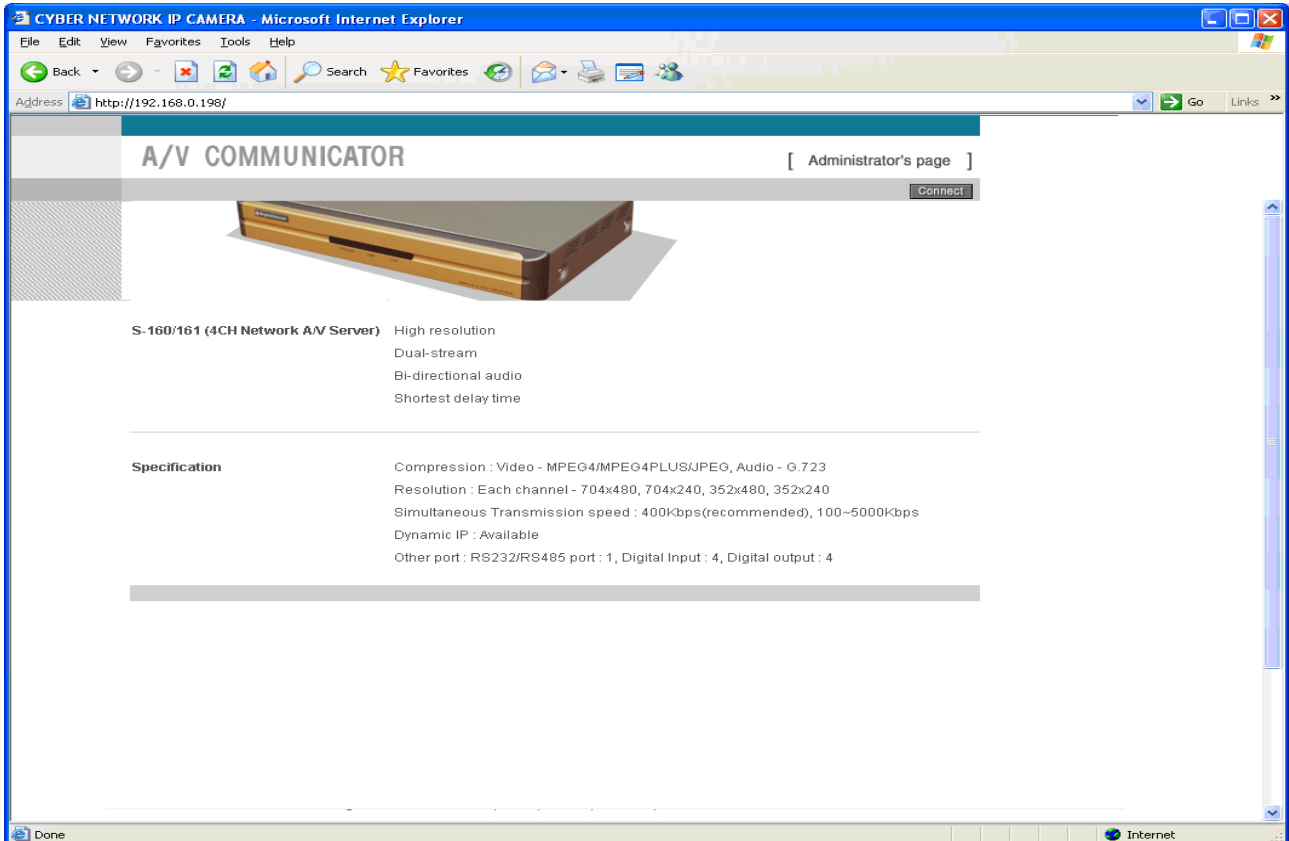
- ⊕ When a user wants to change IP of ACTI, double click item of the second List.
- ⊗ Information of the Item will be displayed as follows.



F. Arm



G. IPCamera A, B



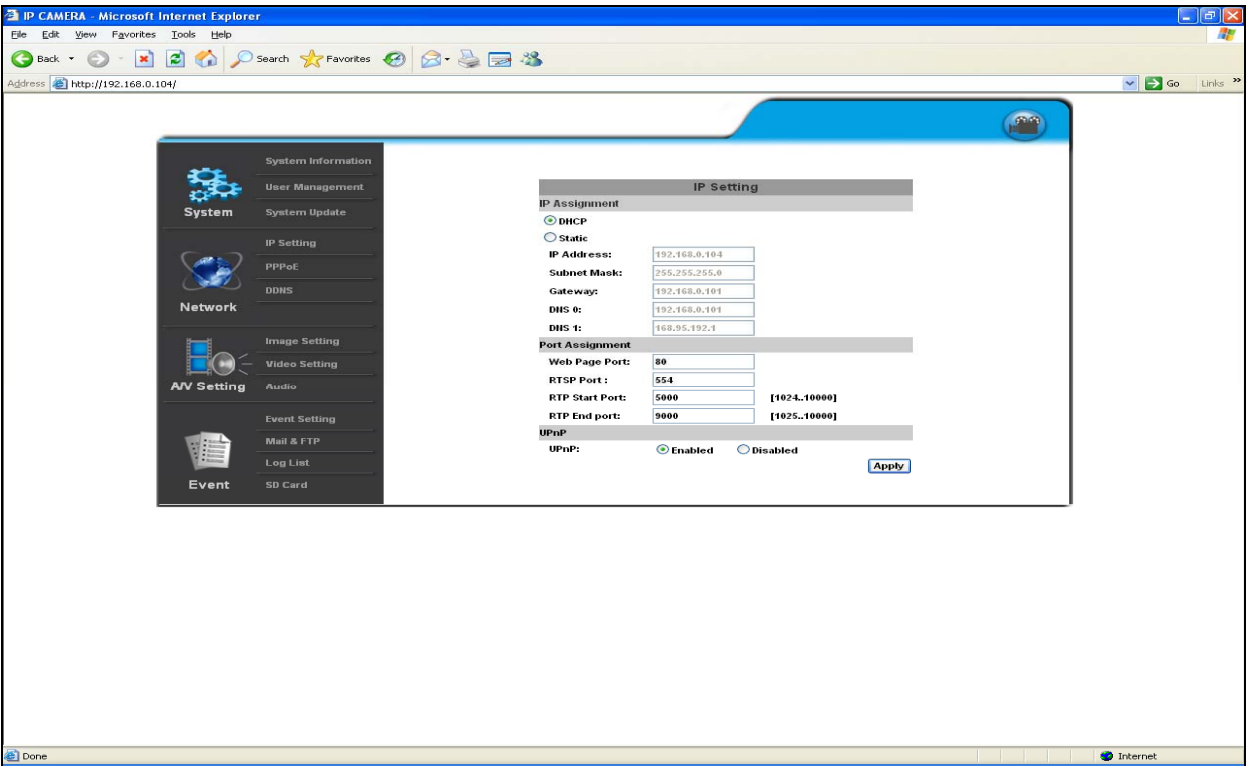
H. Iqeye

The screenshot shows the web interface for the Iqeye511 IQEYE0180CF camera. The browser window title is "Iqeye511 IQEYE0180CF: server settings - Microsoft Internet Explorer". The address bar shows "http://192.168.0.54/serverset.html". The interface has a navigation menu with tabs: live, image, window, network, security, trigger, IQrecorder, and multiview. The "network" tab is selected. On the left, there is a live video feed showing a blurry indoor scene. Below it, an "Information" box displays: IP address 192.168.0.54, date 03/30/2008, time 17:34:22, hardware address 00:50:1a:01:80:cf, and link status 100Mbit/sec, full-duplex. A "reboot camera" button is located below the information. The main settings area is divided into three sections: "Network" with fields for name (IQEYE0180CF), IP address (192.168.0.54), subnet mask (255.255.255.0), TCP/IP gateway (192.168.0.101), primary nameserver (0.0.0.0), domain name, web port (80), bandwidth limit (unlimited), and ethernet mode (auto); "Email (SMTP)" with fields for mailserver, username, and password; and "Time" with fields for time zone (america/pacific), timeserver protocol (ntp), timeserver IP address (undefined), and NTP mode (broadcast). The IQinvision logo is at the bottom right.

I. Grandeye

The screenshot shows the web interface for the Halocam Compact IP camera. The browser window title is "Halocam Compact IP - Microsoft Internet Explorer". The address bar shows "http://192.168.0.210/". The interface is titled "Network Settings" and has two buttons: "Apply IP Settings" and "Return to Video". The settings are organized into sections: "DHCP" (On/Off), "Static IP Address" (192.168.0.210) and "Port" (80), "Subnet" (255.255.255.0), "Default Gateway" (192.168.0.101), "DNS Server" (192.168.0.100), "Domain Name" (localdomain), "Camera Name" (camera), and "NTP" (On/Off) with "NTP Server" (192.168.0.100). On the right, a "CONTROL PANEL" sidebar contains sections for "INFO" (Software Version: 00.20.2, Web Site Version: 0.4.1, Linux Version: 21 Dec 07, ActiveX Version: 1.0.0.0), "ADMIN" (Network, User Management, Event Management, Clock, Remove Bad Pixels, Factory Defaults), "PRESETS", "REGIONS", and "MOTION DETECTION". The grandeye logo is at the bottom left.

J. Luxon



K. Zaivo/ZaivoD

