EverSecu Recorder

Operation Manual

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TABLE OF CONTENTS

Introduction

Setup

Local Viewer (Search)

E-Map and Editor

Introduction

System Feature

EverSecu provides advanced digital technology that supersedes old-fashioned CCTV monitoring and VCR systems. It allows 'instant replay' and simultaneous recording.

EverSecu also provides security personnel to define 'security events' that require recording compression of non-event periods into a few frames of video for continuity. This eliminates long hours of tape review and allows you to quickly find any date, time or alarm by random access.

System Requirements

Model	CPU	Memory	Main Board	VGA	Remarks
ES0430	Intel Celeron 1Ghz	256MB	Intel 8xx/9xx VIA P4X266, SiS650	ATI Radeon 9200 or Higher	
ES1603	Intel Celeron 1Ghz	256MB	Intel 8xx/9xx VIA P4X266, SiS650	ATI Radeon 9200 or Higher	
ES1660	Intel Celeron 1Ghz	256MB	Intel 8xx/9xx VIA P4X266, SiS650	ATI Radeon 9200 or Higher	
ES412	Intel Celeron 1Ghz	256MB	Intel 8xx/9xx VIA P4X266, SiS650	ATI Radeon 9200 or Higher	
ES1612	Intel Pentium IV 1Ghz	256MB	Intel 8xx/9xx	ATI Radeon 9200 or Higher	Encourage of VGA card to be supported DirectX Overlay
ES1624	Intel Pentium IV 2.8Ghz	512MB	Intel 8xx/9xx	ATI Radeon 9200 or Higher	
ES3224	Intel Pentium IV Prescott 530 or Higher	1GB	Intel 9xx	ATI Radeon 9200 or Higher	
ESCR12	Intel Pentium IV 1Ghz	512MB	Intel 9xx	ATI Radeon 9200 or Higher	
ESCR24	Intel Pentium IV 2.8Ghz	512MB	Intel 9xx	ATI Radeon 9200 or Higher	
ESCR48	Intel Pentium IV Prescott 530 or Higher	1GB	Intel 9xx	ATI Radeon 9200 or Higher	
ESM44	Intel Pentium IV 2.8Ghz	512MB	Intel 9xx	ATI Radeon 9200 or Higher	
ESM48	Intel Pentium IV 2.8Ghz	512MB	Intel 9xx	ATI Radeon 9200 or Higher	
HP3000	Intel Pentium IV 2.8Ghz	512MB	Intel 9xx	ATI Radeon 9200 or Higher	

EverSecu **Specification**

◈　Software MPEG4 Compression Board

Model	ES403	ES0412	ES1603	ES1606	ES1612	ES1624	ESCR12	ESCR24	ESCR48	ES3224
Camera Input	4CH	4CH	16CH	16CH	16CH	16CH	16CH	16CH	16CH	32CH
Display (fps) (NTSC/PAL)	30/25	120/100	30/25	60/50	120/100	240/200	480/400	480/400	480/400	240/200
Recording (fps) (320x240,NTSC/PAL)	30/25	120/100	30/25	60/50	120/100	240/200	120/100	240/200	480/400	240/200
External Monitor	1	1	1	1	1	1	1	1	1	1
Sensor Input	4	4	16	16	16	16	16	16	16	32
Alarm Output	4	4	16	16	16	16	16	16	16	16
Audio Recording	1	4	1	2	4	8	4	8	16	16
Real-Time Display	Not supported					Supported				
Video Input Signal	NTSC, PAL									
Compression	MPEG4 / MJPEG Selection (S/W Codec)									
Image Resolution	MAX. NTSC – 720 x 480 / PAL 768 x 576									
Recording Mode	Continuous, Motion Detection, Sensor, Scheduling Multiple Recording									
Motion Detection	10-Region per channel / Adjustable sensitivity									
Image Verify	WATER-MARK									
Self Diagnostics	Watch-Dog									
Remote Access	Full remote control PSTN, ISDN, LAN, Leased Circuit, Internet									
Remote Setup	Supported									
P/T/Z Interface	RS-485(422) / RS-232									
OS	Windows 2000, XP, Vista									

※ Model ES0403 can be expended to 16Channel if the user installs 4 pcs of the same board.

◈　Hardware MPEG4 & H.264 Compression, Video Display (Real-Time Display) Board

Model	ESM44	ESM48	ESM48EX	HP3000
Camera Input	4CH	8CH	8CH	8CH
Display (fps) (NTSC/PAL)	120/100	480/400	480/400	240/200
Recording (fps) (320x240,NTSC/ PAL)	120/100 @ D1	240/200 @ D1	480/400 @ D1	240/200 @ D1
External Monitor	1			
Sensor Input	4	8	8	8
Alarm Output	4	8	8	8
Audio Recording	4	8	8	8
Video Input Signal	NTSC, PAL			
Compression	MPEG4 (H/W Codec)			H.264 (H/W Codec)
Image Resolution	MAX. NTSC – 720 x 480 / PAL 768 x 576			
Recording Mode	Continuous, Motion Detection, Sensor, Scheduling Multiple Recording			
Motion Detection	10-Region per channel / Adjustable sensitivity			
Image Verify	WATER-MARK			
Self Diagnostics	Watch-Dog			
Remote Access	Full remote control PSTN, ISDN, LAN, Leased Circuit, Internet			
Remote Setup	Supported			
P/T/Z Interface	RS-485(422) / RS-232			
OS	Windows 2000, XP, Vista			

※ Model **ESM44** can be expended to 16Channel if the user installs 4 pcs of the same board.

Install *EverSecu* Board

1) Turn off power on the computer.

* It is very important to turn the computer's power before you open the case. Static Electricity can provide a big enough shock to damage the components of your PC.
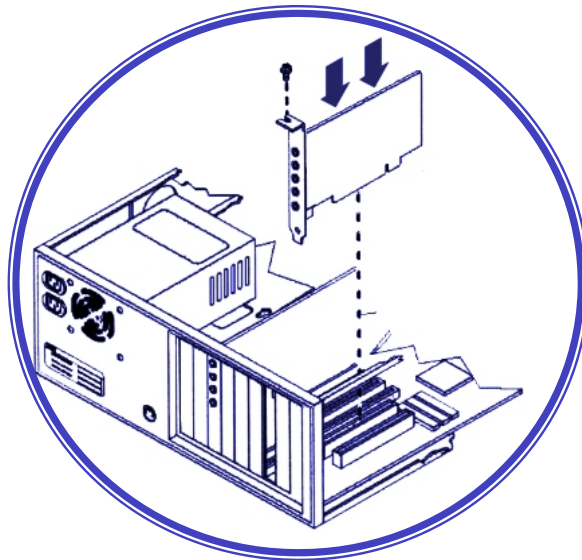
 NEET TO EXPLAIN ABOUT PROPER GROUNDING BEFORE TOUCHING ANY COMPONENTS.

2) Open computer case and Please install as follows:

3) Check to make sure there is a PCI slot available.

AGP (VGA) Slot

PCI Slot

ISA Slot

< PCI slot >
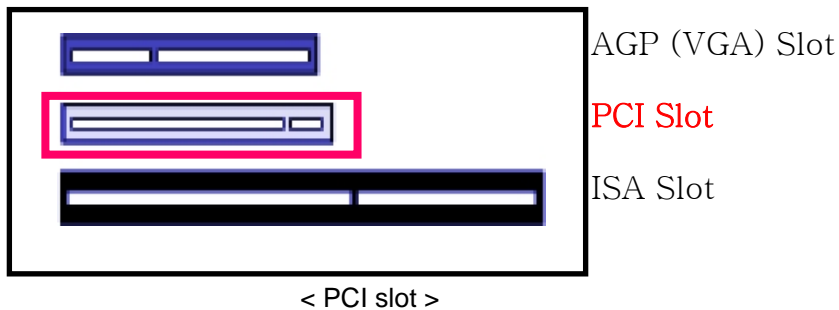
4) Please install securely in the slot.

< PCI slot Installation >

5) Secure the card in place by tightening the screw.
6) Close the case then turn on the computer

Install System

A User may connect CCTV camera, video phone, or video out port of any security system to one of camera input ports on **EverSecu** Board.

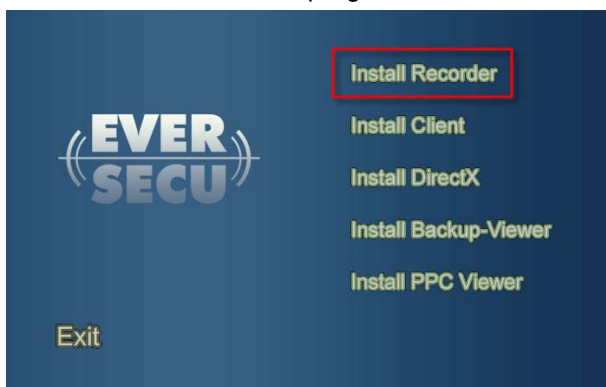Also, a user may use TV out to connect an external analog CCTV monitor.

TV OUT

Audio Input

9~16ch Video

1~8ch Video

Digital I/O&485
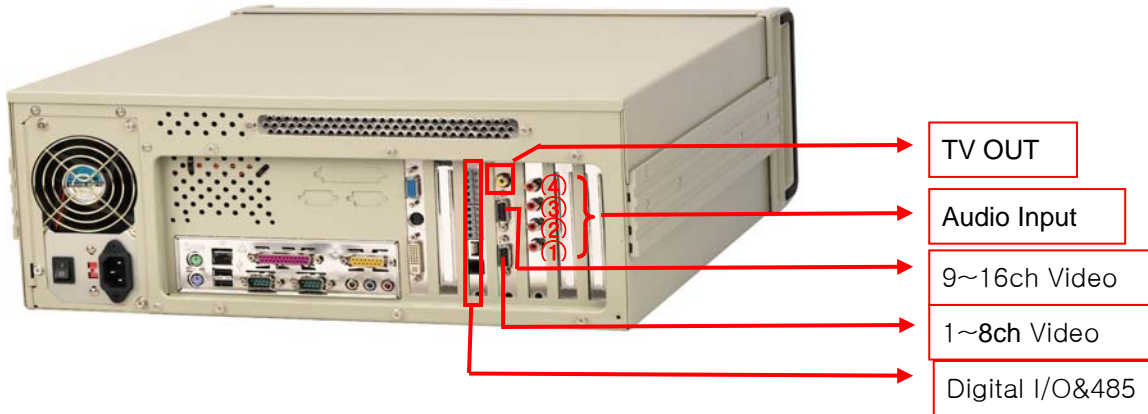
Install Software

1. Execution of the Installation Program

1) When you put the **EverSecu** Card into the PC and turn on the power, the Windows system runs and show up the message window that a new hardware is discovered.

In case of Hardware Driver, it is available to be installed when you install the **EverSecu** program. So, on this step, click"Cancel"and insert **EverSecu** Installation Program CD to CD-ROM Drive on the PC. Then, the installation program will be executed automatically.

Install Recorder
Install Client
Install DirectX
Install Backup-Viewer
Install PPC Viewer

Exit

2) Each Menu of the installation program offers the following function.

- Install Recorder: Install **EverSecu** Recorder program.
- Install Client: Install **EverSecu** Client(Remote Viewer) program.
- Install PDA Viewer: This is a Client(Remote Viewer) program for PDA.
  Our Viewer supports the OS of Microsoft Pocket PC2003, 2003SE for PDA.
- EXIT: Finish the installation program.

2. Installation of EverSecu Recorder program

① Clicking the 'Install Recorder' in the Install Shield using a mouse will display the window asking if the user wants to install the EVERSECU Driver.
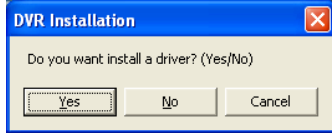

If 'Yes' is clicked, the driver is installed. If 'No' is clicked, the driver is not installed and the program moves to the program installation step.

☞ Once the driver is installed successfully, it is registered in the Device Manager as shown in the following figure. (It can be confirmed once the system is restarted after installation of the system EVERSECU program.)
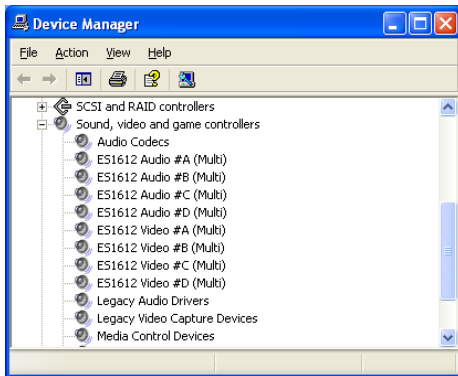
② Click 'Continue (C)' in the window asking if the user wants to install the driver. Then the driver according to the installed EVERSECU product is searched automatically.
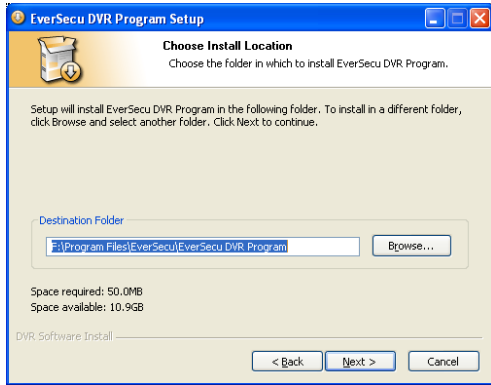
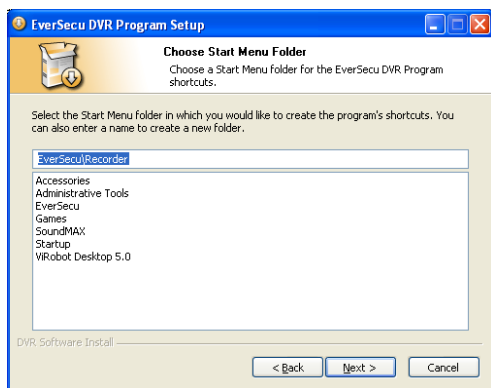③ Select the language for the program to be installed.
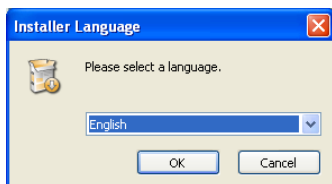
 → Click the 'OK' button

④ Select the language to be used and click the 'OK' button. Then the program installation proceeds in order.
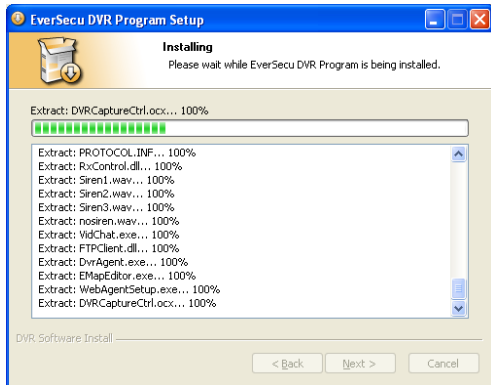
 Start installation

Select program installation path

Designate in the program folder of the Start menu a folder in which the EVERSECU Recorder execution icon can be registered.

The program is installed. → If the 'Cancel' button is clicked, the installation is stopped.

The program installation is completed successfully.
→ If the 'Finish' button is clicked, the program installation
is finished.

⑤ In order to install the EVERSECU driver manually, in the window asking for the driver installation path, set the 'Driver' folder in the Program Installation CD as the installation path. Since the program execution icon is registered in the desktop and Start menu as well as Start program automatically, the program is executed automatically.

After closing the program, if you want to reexecute it, click twice this icon on the bottom screen.

* If you want to install DVR card driver manually, you can configure the route of the folder 'Recorder\Driver' in the installation CD on the window for searching the route of Driver.

※ WARNING!

EverSecu uses a specific data format. So, you must designate the specific data file by using the setup program's **'Storage Space'** section after installation. *EverSecu* will not record data without specific *EverSecu* storage space.
(Refer page 40 for setup Storage space)

UnInstall Software

1. Removal using the EverSecu Recorder Remove article registered on Start Menu

1) Execute the Uninstall DVR Recorder Icon in the SyRadar DVR registered in the Programs of the Start menu.
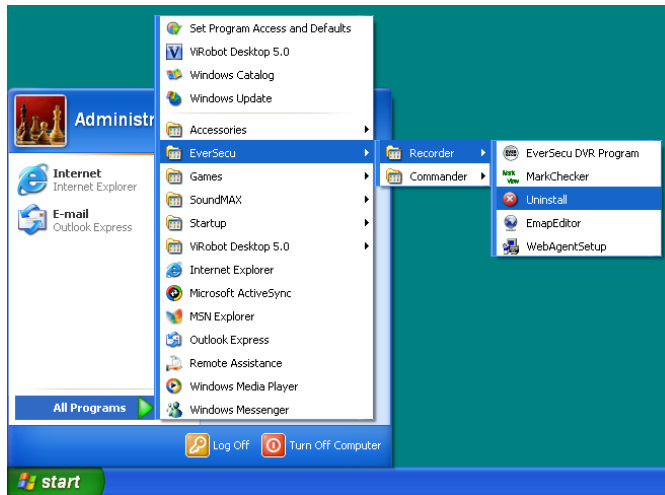

When the window confirming the removal of the program appears, click the 'Yes' button. Then the program is removed automatically.

2. Removal through the function of "Add or Remove Programs"in the Control Panel of Windows system.

1) Execute "Add or Remove Programs" in Panel Control.

2) On the list of the installed programs, select a program of '**EverSecu** Recorder' or 'EverSecu Commander' and click "Remove" button.

3) In this case of removal, it will be removed only the program and remains Registries and Setup informations on the system. So, for the complete removal, we recommend you to use the removal function of "Uninstall **EverSecu** Recorder" registered on the Start Menu.

4) On the Removal confirmation window, Clicking "Yes", it runs to remove the program automatically.

Main Screen Overview
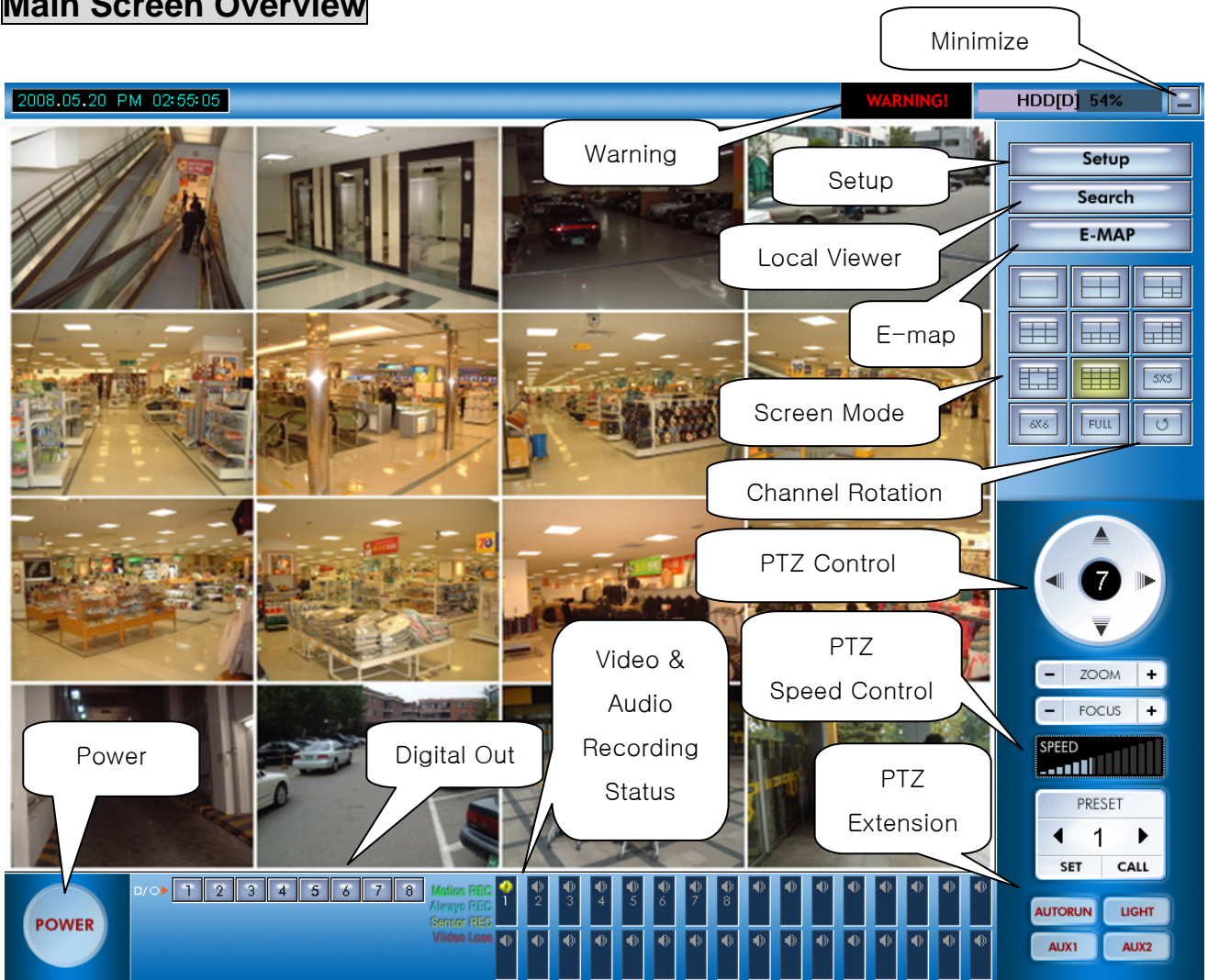
Local Viewer	Run Local Viewer[Search]
Setup	Run Setup
Minimize	Hide Button DVR Recorder in tray bar
Video& Audio Recording Status	Status of Recording about Video and Audio
Warning	Display Warning Message
Screen Mode	Division of Display Screen [1,1/4~4/4,1/9,10/9,16,25,36]
Channel Rotation	Automatically Changing Displayed Channel
PTZ Control	PTZ basic button
PTZ Speed Control	Slide bar for speed of PTZ movement
Digital Out Switch	Switch button about Digital-out on Capture board
Power	Exit Button

Description of buttons on main screen
- Video & Recording Status

watching mode   - just view and not record (Camera Ramp: Not)

Sensor Recording – Recording by schedule that is set for sensor event (Yellow)

Motion Recording –Recording by Schedule that is set for Motion Event (Green)

Continues Recording–Recording by schedule that is set for Time period (Blue)

Disconnect – Camera is turn off or disconnected (Red)

- Audio Status

Audio Recording (Green)

Icon operties

It is not recording audio by schedule, but it's done Audio setup (Gray)

- WARNING Status

WARNING is working with checking "using Warning mode" and setting sensor, motion event on setup page.

But, Warning is working without any setting, if Camera Loss is happened.

- PTZ Control Panel

PTZ Panel is show up by next PTZ setting.

- Check PTZ (PTZ port and bitrate setting) on General setup page

- Select PTZ protocol on Camera/Motion Detection setup page.

- Select a camera which you want to control.

Controlling PAN/TILT/ZOOM/FOCUS/PRESET

(some function is not available by PTZ Driver and RX)

Relocate split screen by mouse dragging

By mouse dragging, you can move the image screen at the location that you want...

As like below pictures, if you drag channel 1 to channel 2's position for replacing position, the position of Screen will be changed with each other
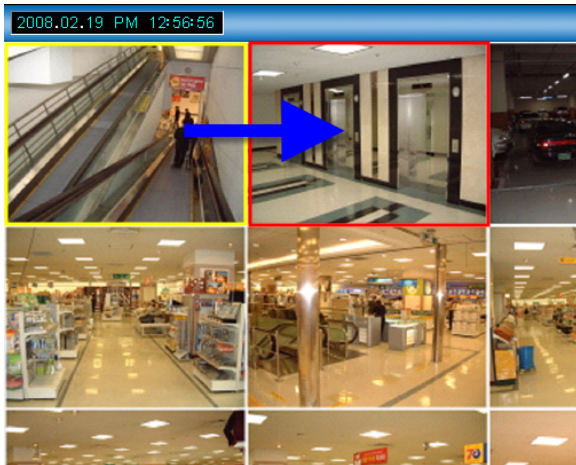
Also if channel1 is dragged to channel 6, channel 1 is changed position with channel 7.
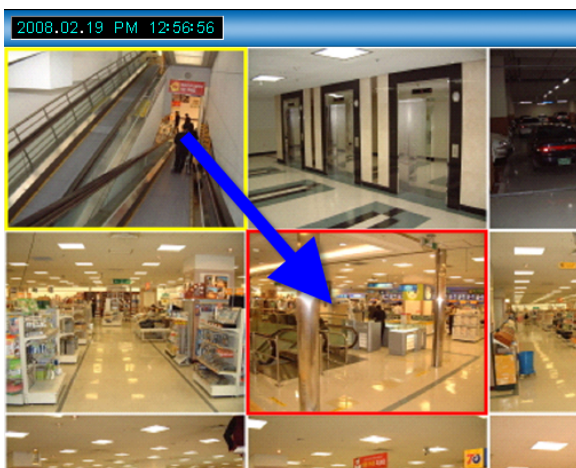
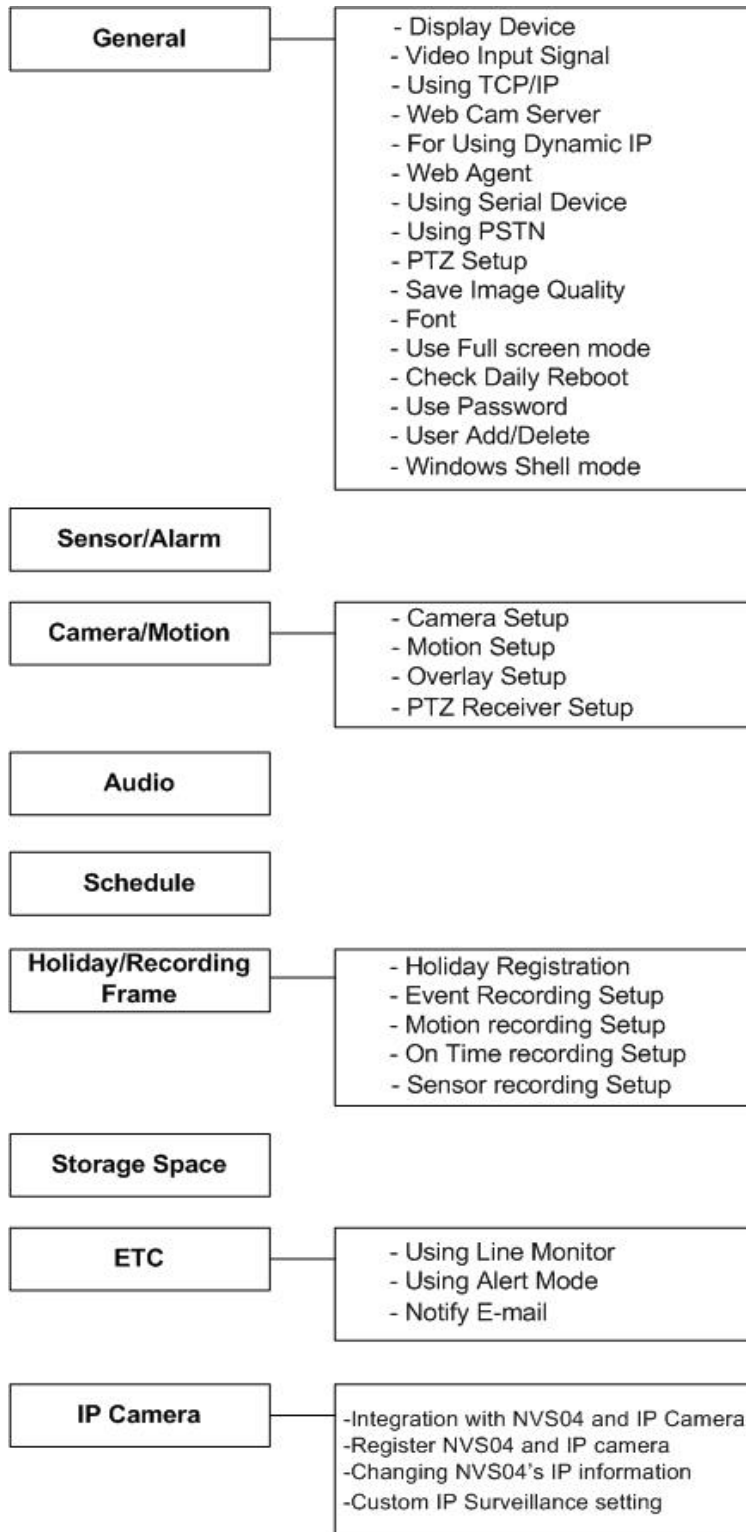It's useful for relocation channels by frequency, camera position, etc.

SETUP

Preset ID and Password

The preset ID is set in **"Administrator,"** Password is set in **"Admin."**

Setup Overview

General	- Display Device
	- Video Input Signal
	- Using TCP/IP
	- Web Cam Server
	- For Using Dynamic IP
	- Web Agent
	- Using Serial Device
	- Using PSTN
	- PTZ Setup
	- Save Image Quality
	- Font
	- Use Full screen mode
	- Check Daily Reboot
	- Use Password
	- User Add/Delete
	- Windows Shell mode

Sensor/Alarm

Camera/Motion	- Camera Setup
	- Motion Setup
	- Overlay Setup
	- PTZ Receiver Setup

Audio

Schedule

Holiday/Recording Frame	- Holiday Registration
	- Event Recording Setup
	- Motion recording Setup
	- On Time recording Setup
	- Sensor recording Setup

Storage Space

ETC	- Using Line Monitor
	- Using Alert Mode
	- Notify E-mail

IP Camera	-Integration with NVS04 and IP Camera
	-Register NVS04 and IP camera
	-Changing NVS04's IP information
	-Custom IP Surveillance setting

Display Device

EverSecu supports 4 type of display device, **Auto Detect, YUV Overlay, Direct Draw, RGB Rendering**.

The graphic card of your computer sometimes do not support above DirectX and YUV Overlay. In this case, you must set up **"Display Device"** to **"RGB Device"** (The default value is "RGB Device.")

Video Input Signal

EverSecu supports both of Video signal NTSC and PAL type. In NTSC, maximum recording speed is 30 fps, in PAL TYPE; maximum recording speed is 25fps on each channel.
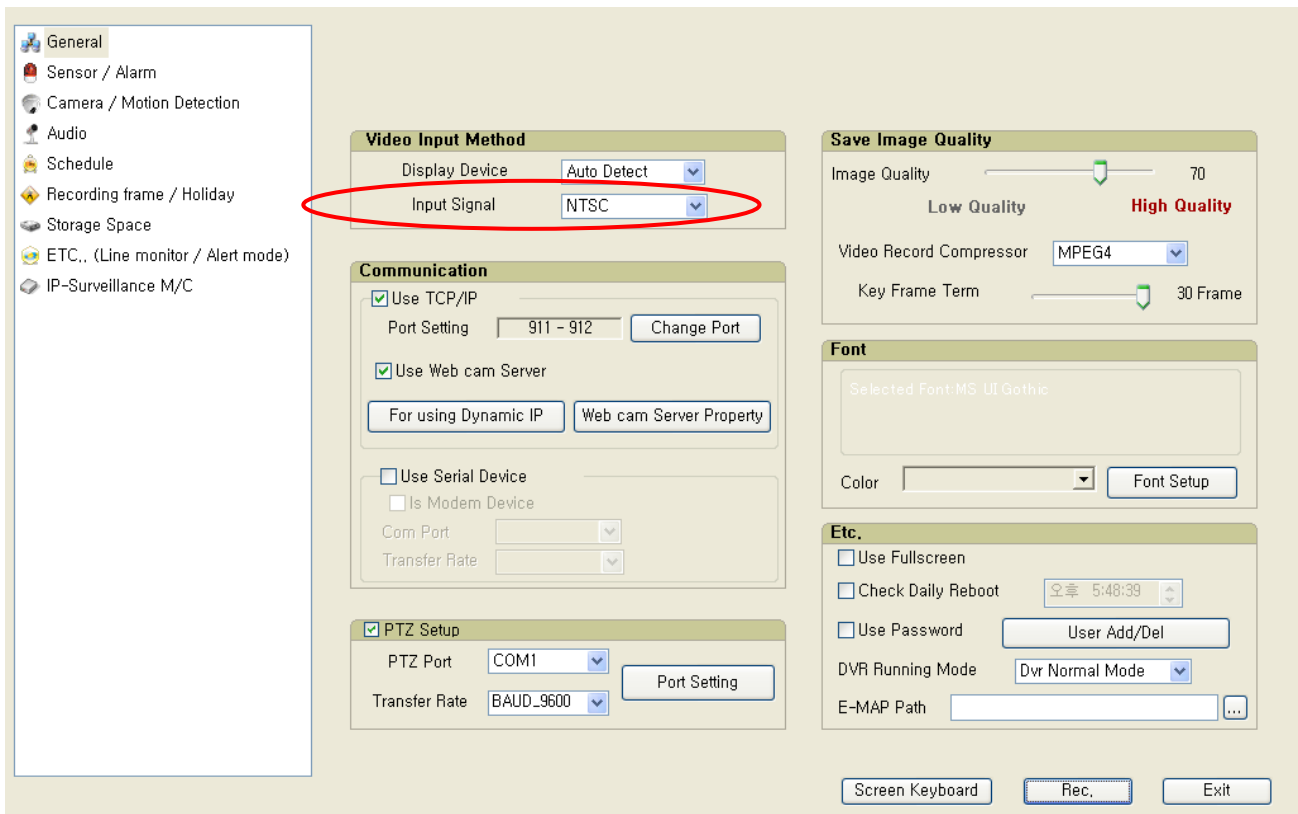
Using TCP/IP
   - Check "**Use TCP/IP**" in Check box.

Web Cam Server

Using a WebCam Server

Even if you have no client program at the remote site you can watch images to using a web browser. Check "Web Cam Server" for this function.
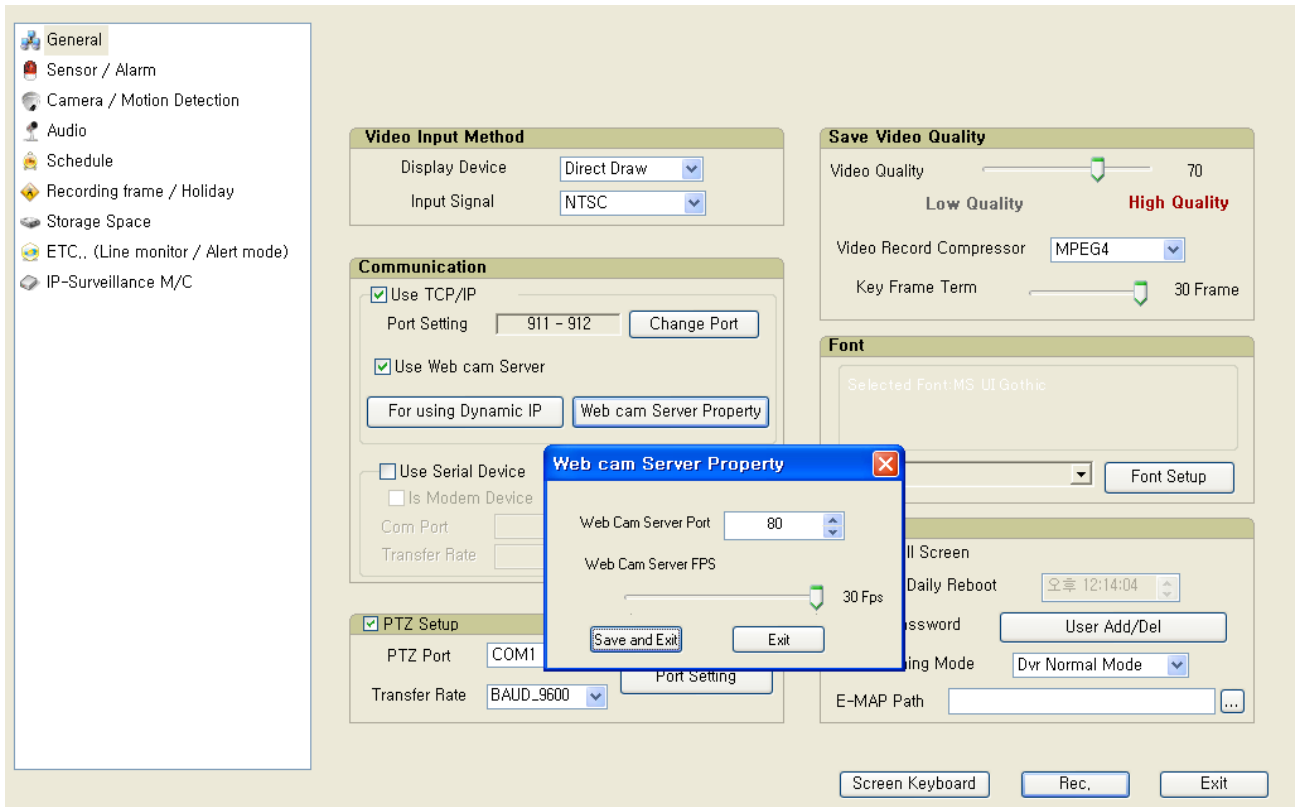
The value of default port is 80, but the user can change the value of the default port. If there is no display of the image, due to the firewall.(The remote user can connect the webcam server to the recorder without the network administrator authorization.

Note:

For broadband T1 and Dial up Connection

The user sets up the frame rate according to the communication speed of the on line connection. The maximum number of frames that can be viewed is 30fps. The higher the fps the more CPU resources will be needed from the server.

Therefore, the user can adjust the fps speed of upload from 1fps for PSTN Dial-up modem or less than 300Kbps, 2fps for 512Kbps and 30fps for 10Mbps on the basis of 4 channels.

※If you used WebAgent when you changed Web Server Port, WebAgent should be reinstalled.

For Using Dynamic IP

Recorder has dynamic IP and you registered "**for using Dynamic IP**" on Recorder, you can connect the Recorder using the registered name on remote viewer.

Instead of IP address, set domain address [ex: ddnsdvr.net] which is use the DVR's registered machine name[ex: testdvr] to host name.

Ex) testdvr.ddnsdvr.net

ddnsdvr.net is support dynamic ip, and that is DDNS(Dynamic Domain Name Server) only for our dvr product.
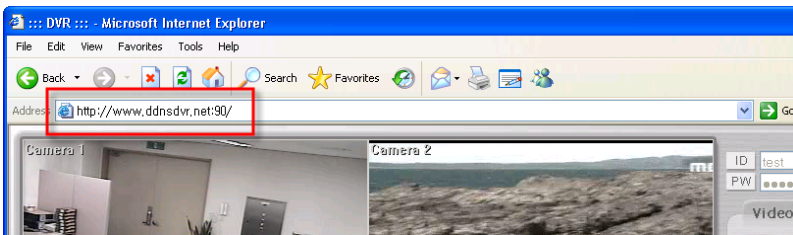
1) Register Dynamic IP (DDNS web server)

- First, verify the network connection and Internet connection is working.
- Check **"For using dynamic IP"** in Check box.
- You can see "**DVR AGENT**" window, Click **"Dynamic IP."**
- clicked **"Using Dynamic IP".**
- In **"DVR Name"** key in a characteristics name instead of IP address and click "**Apply".**

Register DVR Name

If you click "Register," DVR Agent tries to connect your DDNS Web Server and register.
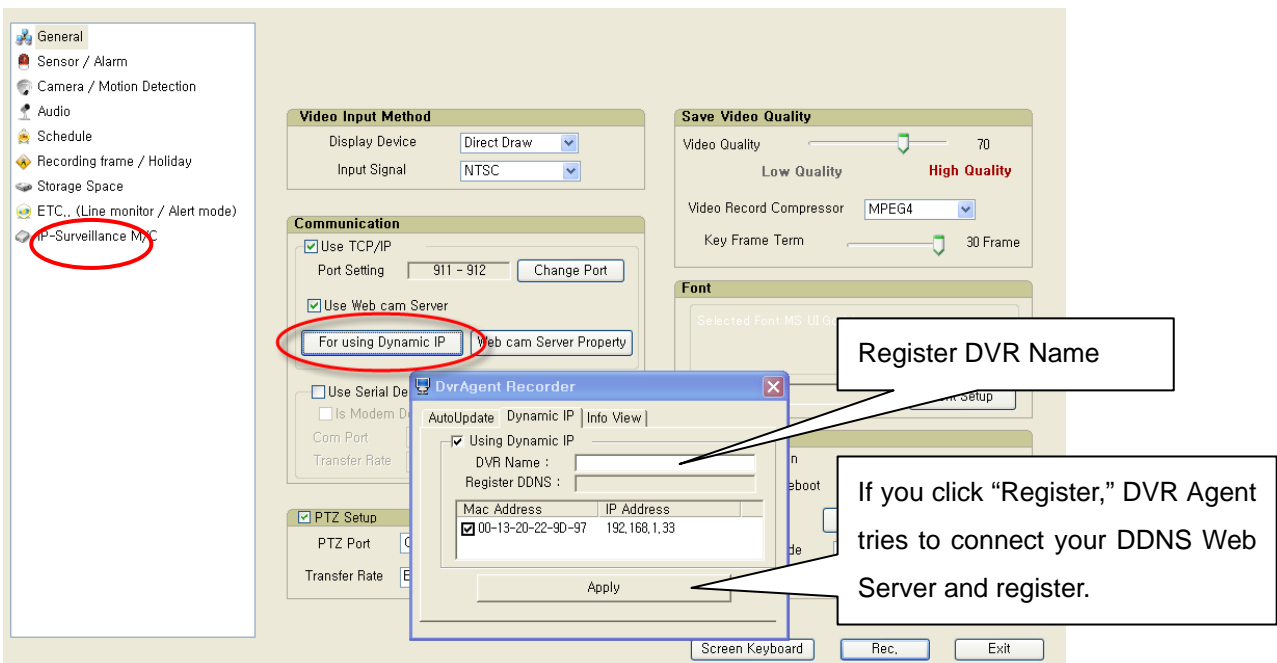
If you set correctly, this window is popped up.

Auto Update

1) Auto Update Setup
　　1. Set Update server address, port, Server's your ID and Password.
　　2. Click Apply, DVRAgent try to connect to Auto Update.
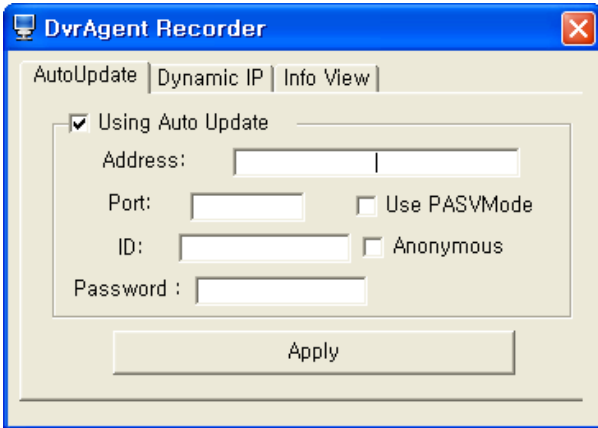
2) Auto Update Request
(1). When Auto Update is running, it will get version information to connect server.
(2). If Auto Update server has upper version information, Auto Update Client ask user to download upper version. If you want to download, click "YES
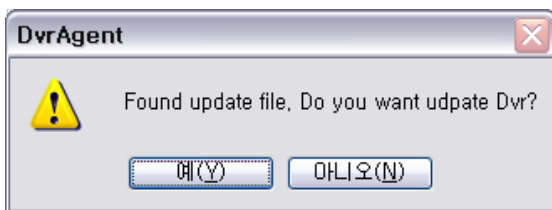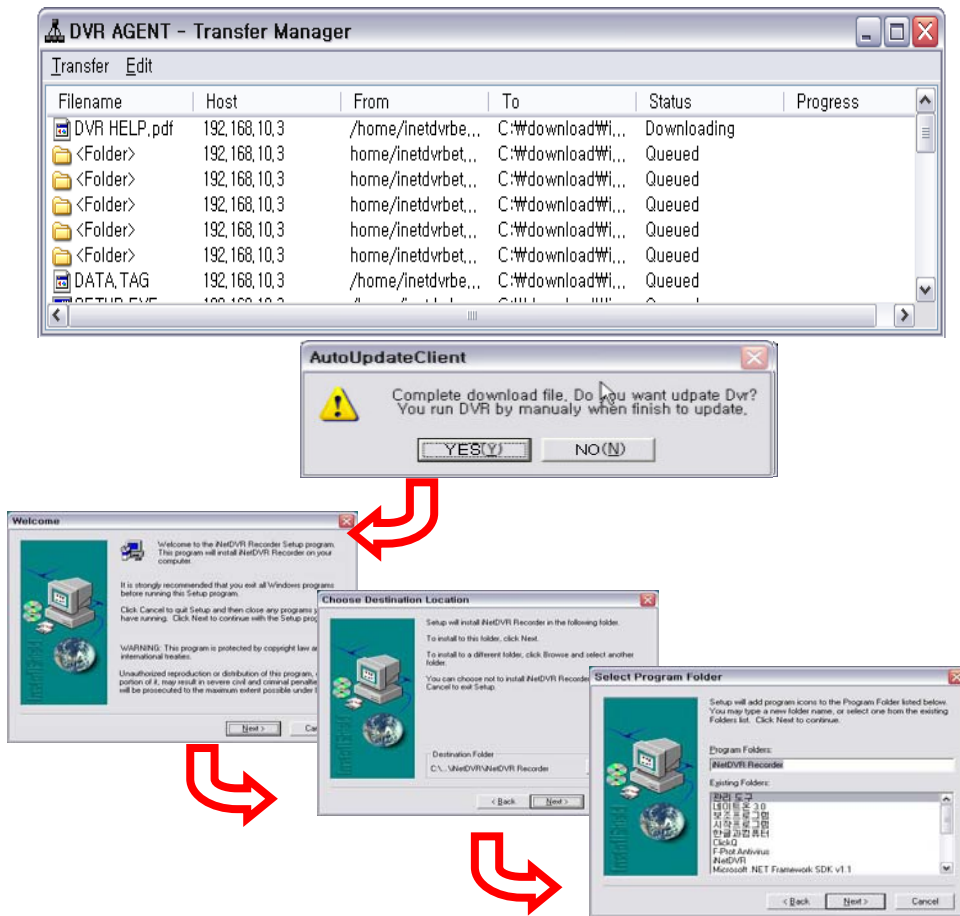

(3). When Auto Update Client start to download up version
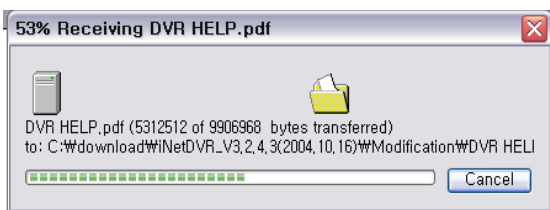
(4). Updating software.
If Auto Update Client finish download, show "Transfer Manager" for downloading status
And ask user to install upper version of EverSecu
Install progressing is as same as **EverSecu** Installation.

3) Information Viewer page

This is helpful for reporting and checking your DVR system information.

It's shown every information about your DVR's setting and condition

Show Installed Recorder version and date of recently Update

Show DvrSetupInfo.ini file by notepad
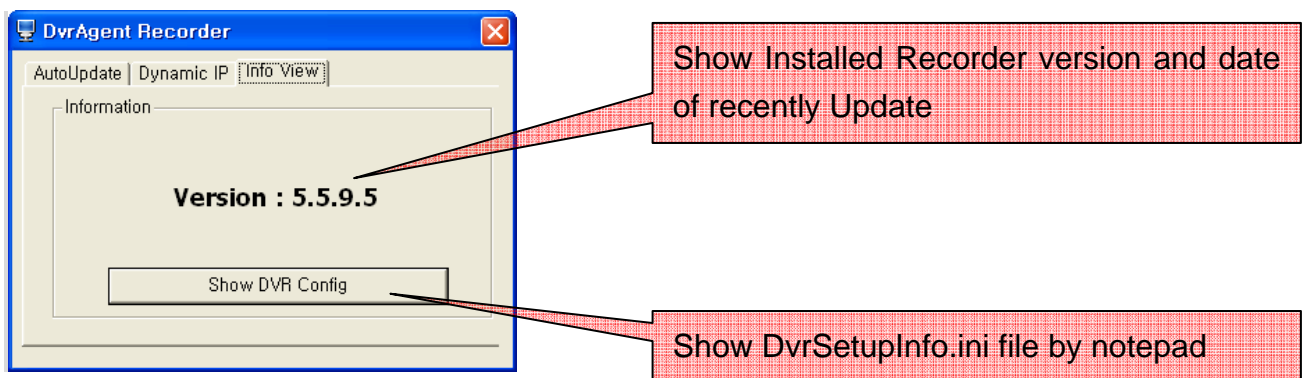
Using Serial Device
- Check **"Use Serial Device"** in check box.
- Set up communication port and transfer rate.
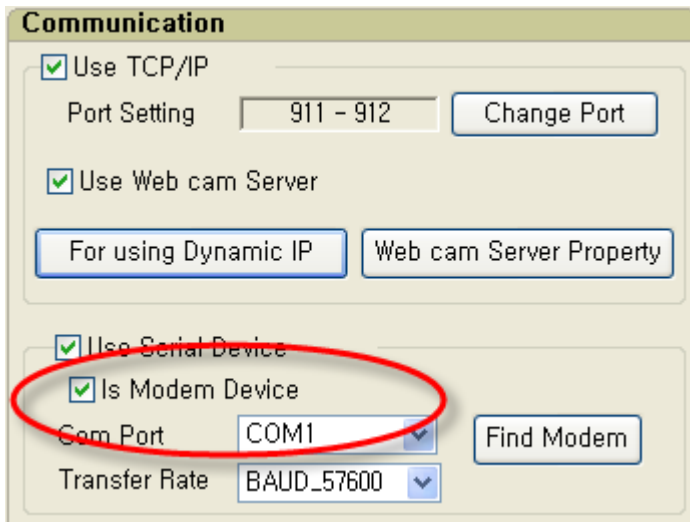
Using PSTN (Public Subscriber Telephone Network) Dialup Modem.
- Check **"Use serial device"** in check box.
- Check **"In Modem device."**
- Click **"Find Modem"** or set up communication port.
- Set up **"Baud rate"**

PTZ (Pan Tilt Zoom)
Set up communication port for control PTZ, transfer rate, parity.
The PTZ Receiver uses RS-485 communication protocol, and you can reserve that port for DVR capture board. "COM1" or "COM2," can only be used for (RS-232C) protocol.

EverSecu supports setting each PTZ Receiver by different ID number (in tab "Set up Camera")

Save Image Quality

EverSecu supports MJPEG and MPEG4 algorism.

MJPEG, provides higher image quality, While MPEG4 provides a higher compression rate. When selecting **MPEG4**, you must to set Key Frame term.
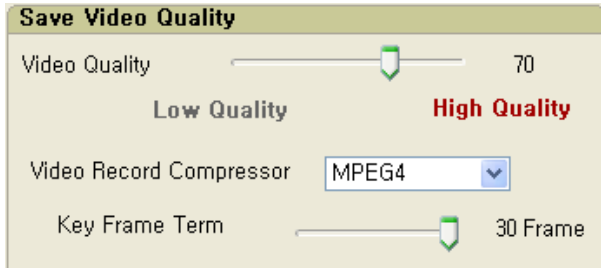
Font Set up

User can change font of camera name.
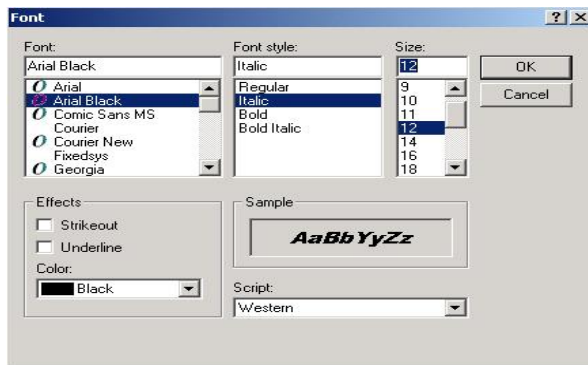
Full Screen Mode

By this setting, you can make DVR running mode as like normal, minimize, and System mode.

DVR Running Mode

Normal Mode:

Minimize Mode: always running with minimize mode display on tray icon.

System Mode: Only DVR is running without any application. So if you turn off DVR, Your computer is shut down.
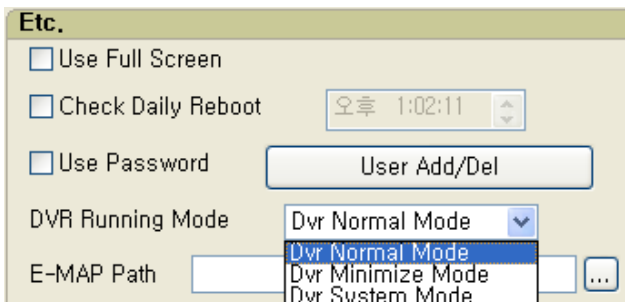
Daily Reboot Feature

When the daily reboot function is checked, the system will automatically reboot itself at the prescribed time. When systems are running for long periods of time they tend to accumulate very large memory files which can cause the system to freeze up. This feature is very useful for assigning dates and times to automatically reboot the system.

Use Password

Only authorized person can use the set-up page to change contents or shut the down.

Default User ID/Password is "**Administrator/Admin**," "**Anonymous/Guest**"

It's necessary to set authorizations for other User ID's operation and Remote Access. Specially, "**Anonymous/Guest**" is important when you used WebCam Server.

When you accessed Webcam server, the Server will be start to find "anonymous." If the User ID is existed, the Server is checked channel which camera channels are shown by server setup.

Otherwise, If there is no ID:Anonymous (ex, ID:Anonymous was Erased), every camera is not able to access by anyone.

User Add/Del

To register new user, click **"User Add/Del"** button, and then click "**Add new user."**
Insert new ID and Password about new user. In user authority, **"allow multiple Access"** have the function that multi user can do simultaneous access.
However, supervisor is not permitted multiple accesses (Person that have authority of run/end, set up it.)
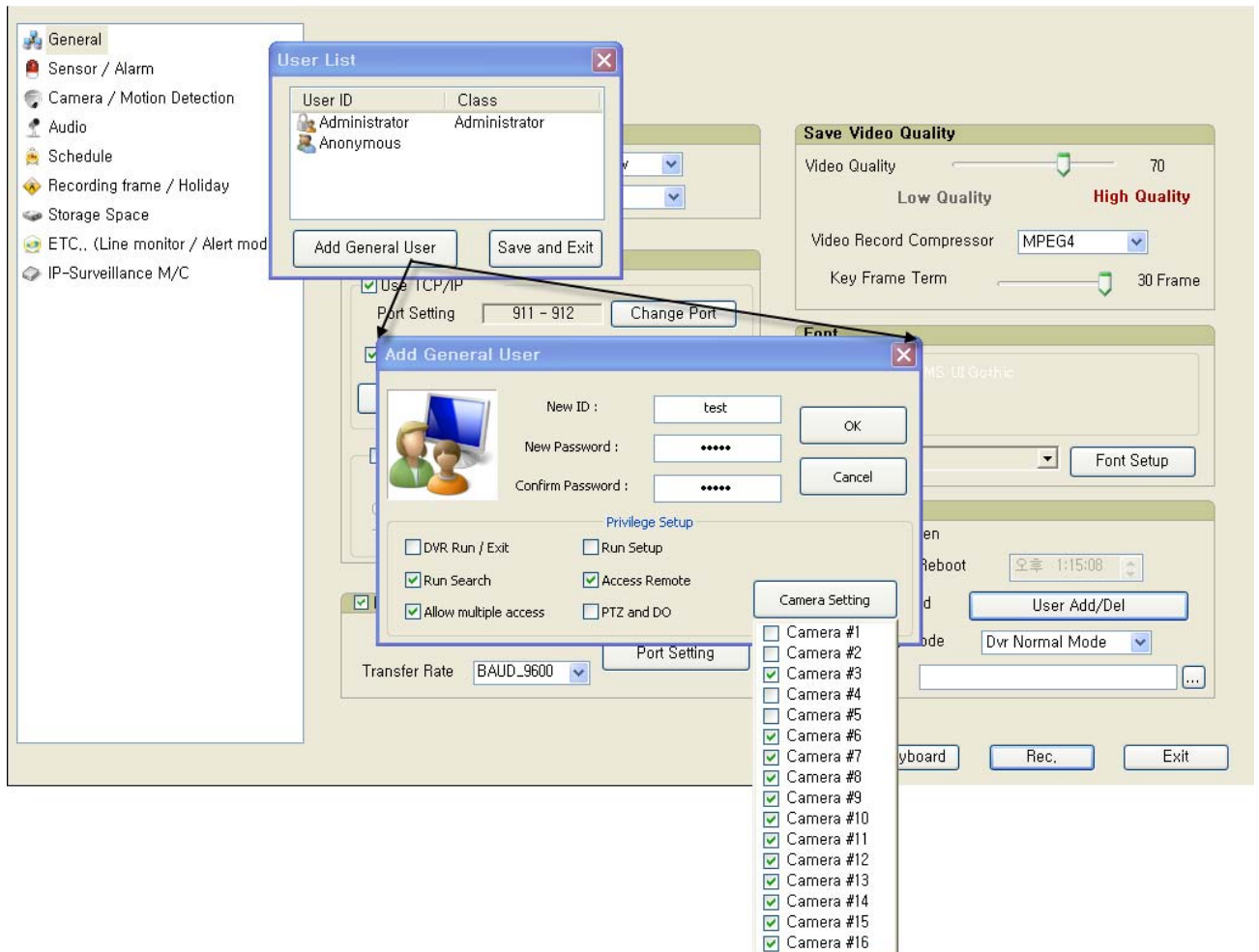
Sensor/Alarm

This section defines the sensor/alarm action.

EverSecu supports 2 type of Sensor/alarm action.

"X": If sensor works, record those images according to schedule.

From above "x," click right mouse, you can use extension functions (Preset,

Light On, User Operation).

When PTZ was supported,

"P1 ~ P16": When sensor works, camera operates to preset location.

"L": When sensor works, turn on light.

"U": This function controls the Aux 5 of PTZ Controller from user operation.

As above, only PTZ controller is supported. If not so, and you use to alarm control in DVR Board, you can click alarm number connected with sensor number. You can set up one sensor/alarm or sensors/ an alarm.
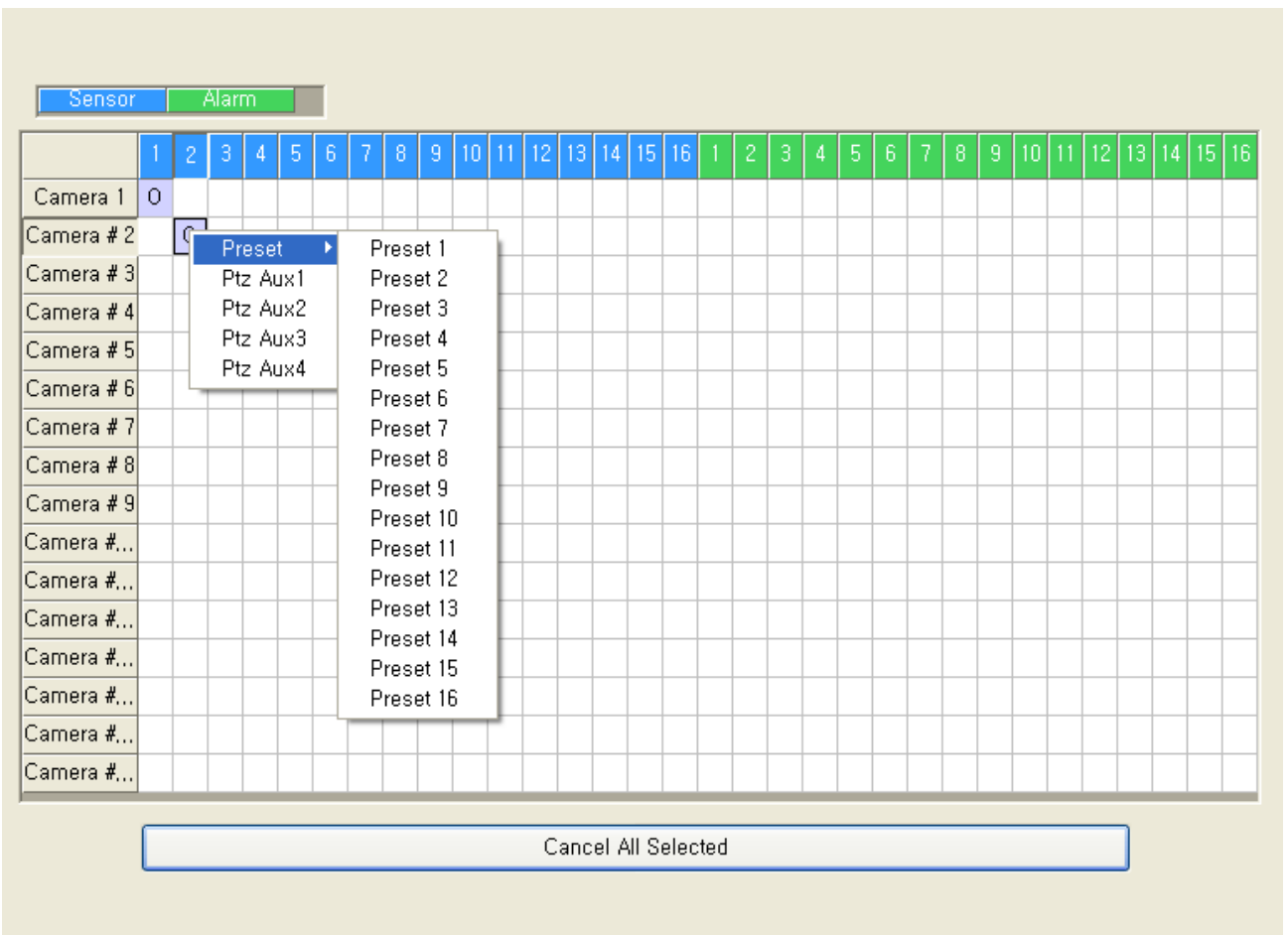
You can set NC (Normal Close), NO (Normal Open) and Alarm out duration.
Digital out is worked by event on schedule, during how long time you set.
It's not worked when you switched digital out.

Set up camera connection and resolution

EverSecu program can identify camera signal automatically though the camera connected. When you do not see images (because of camera broken, disconnection of a cable),"Video loss" will occur at local or remote monitoring center. The recording resolution is supported by 352X240, 704X240, 704X480 on NTSC, 384*288, 768*288, 768*576 on PAL. **"Don't display"** is a function that will not display on *EverSecu* Screen, but will continue to record on the DVR.
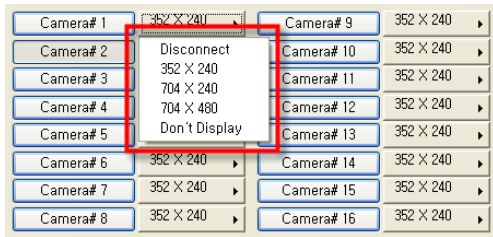
Masking function

Masking function is for protect privacy, When camera capture image has some area not to display for privacy, if you set some area, the area is displayed by mosaic image.
Setting masking area is clicking left mouse button and dragging where you want to set area for masking on "Camera setting," Setting free masking area is clicking right mouse button and dragging.
< After Setting free masking area, a block of masking area is left, that'll be set free when you go back to main screen.>
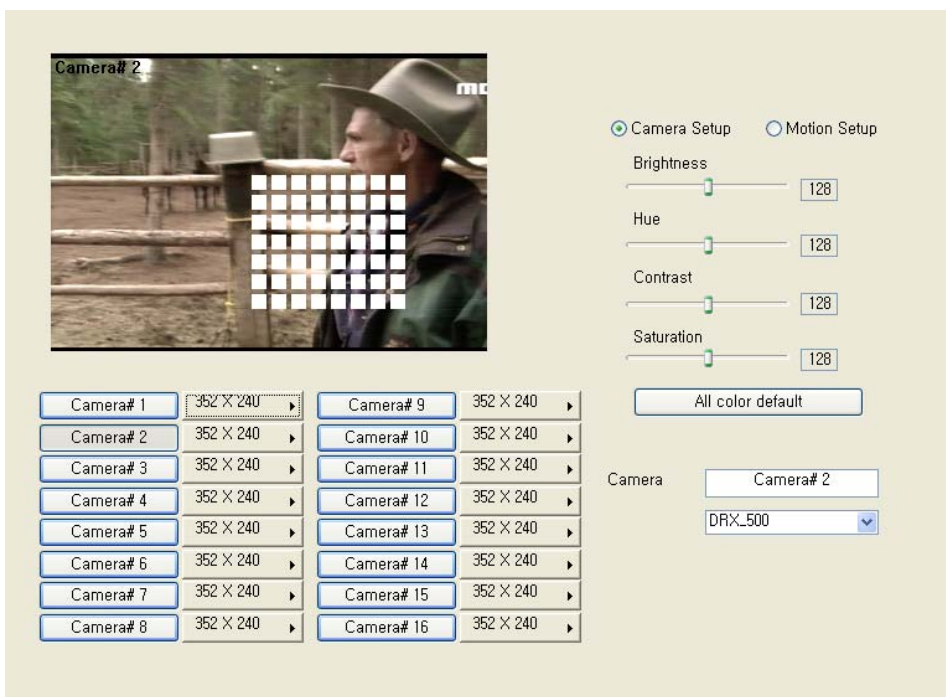
Camera/Motion Detection

To set up the Motion detection area, click and drag the left mouse button. To cancel the area, click and drag the right mouse button. Clicking on the "**Detection sensitivity**" button, you can control the sensitivity of Motion Detection.

Also if you couldn't notify Motion detection area very well, you can change the color of Motion detection area to other color by clicking **"Change detecting point"**

Set up types of PTZ Receiver

You can set up different types PTZ receivers.
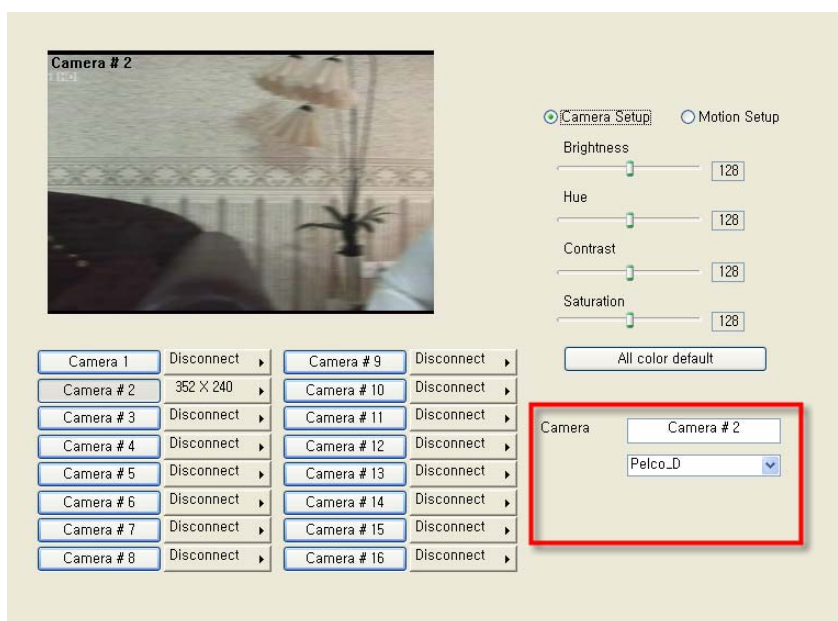
Set up Audio

This function is a part that set voice sensitivity compounding camera. User can set up camera and audio environment to use audio. Click camera #1 button Setting audio, Icon of speaker shaped come out in lower column part.

"Audio setting": Lower button is better quality, but file size is getting bigger and bigger.

"Recording method": Always recording audio: If you can not click this button, audio will be recorded only when motion detection works.

After connecting a microphone, press **"Audio test"** button, you can see yellow pulse signal. If it sounds too small, you should control **"Gain"** value.
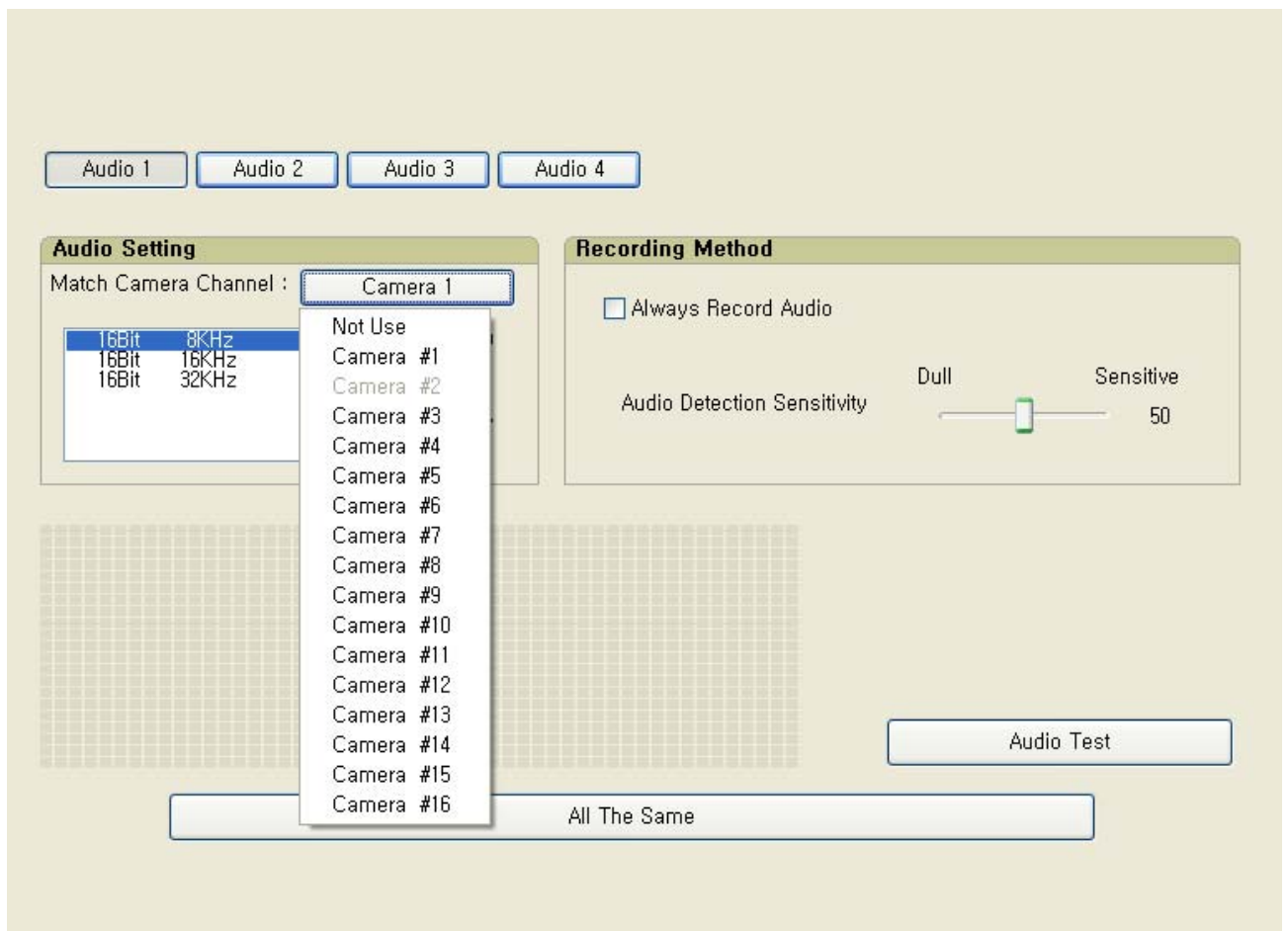
Recording schedule set up

If you wanted to compound schedule with "Audio(A)","Sensor(S)," "Motion detection (M)",
"ON-time (T), after clicked one of those buttons and drag with push on left mouse button.

※If you want to record audio, audio is set up on schedule.
　If you want to record external device, sensor is set up on schedule.

Holiday Registration

You can program holidays, to record or not to record on the registered holiday.

Motion Record set up (Each Camera)

To activate **"Alarm in Detection"** and **"Sensor in Detection,"** click on the check box marked ALARM IN DETECTION.

The post alarm recording may be adjusted from 0 to 60 seconds by sliding the bar forward or backwards. This will allow recording to continue after motion has stopped.

PreAlarm Recording Setup (Each Camera)

You can set the Pre Alarm Recording time from 0 to 10 seconds. This will retain the recording of up to 10 seconds before the event occurs or the alarm is triggered.

Motion Detect Record Setup (Each Camera)

if you want to record image when Motion-Event occur, Check the check box about "**Alarm when detected**" and set slide bar for recording property.

Sensor Record Set up (Each Camera)

If you want to record image when Sensor-Input occur, Check the check box about "Alarm when signal input" and set slide bar for recording property.

On-Time Record set up (Each Camera)

When On time-Recording occurs, an image is recorded 1frame to 30frames for a second.

Set up storage space

Following the initial installation of the software you must set up your disk storage space allocation. This allocation of storage space is user defined and can be allocated in several different hard discs. Storage space is displayed in 3 types.

Application space: Space that installed OS, DVR Program and some Application program.

Already Created data space: Space that set already to data space of DVR.

Able to create data space: Data space except reserved user free space in empty space of drive.

※Notice: Free Drive space is necessary for the stability of your system to work well. So when DVR shows Free Drive Space, DVR calculate Free Drive space except the Space for the System Work.

-See the pie chart for making **"Storage Space."**
-Select Driver where you to make storage space to save recording data.
-Move slide bar to how big size you want.
-Check select box and click **"Make Storage Space."**
 (This picture is for making 80% Data storage space on E Drive)

-If making data storage space is done, the area color is changed to pink

Using Line Monitor

You can connect an additional monitor to view the camera activity using the TV OUT RCA connection on DVR board. Select the line monitor function to display the desired camera output. The images then are displayed in full screen by rotation.
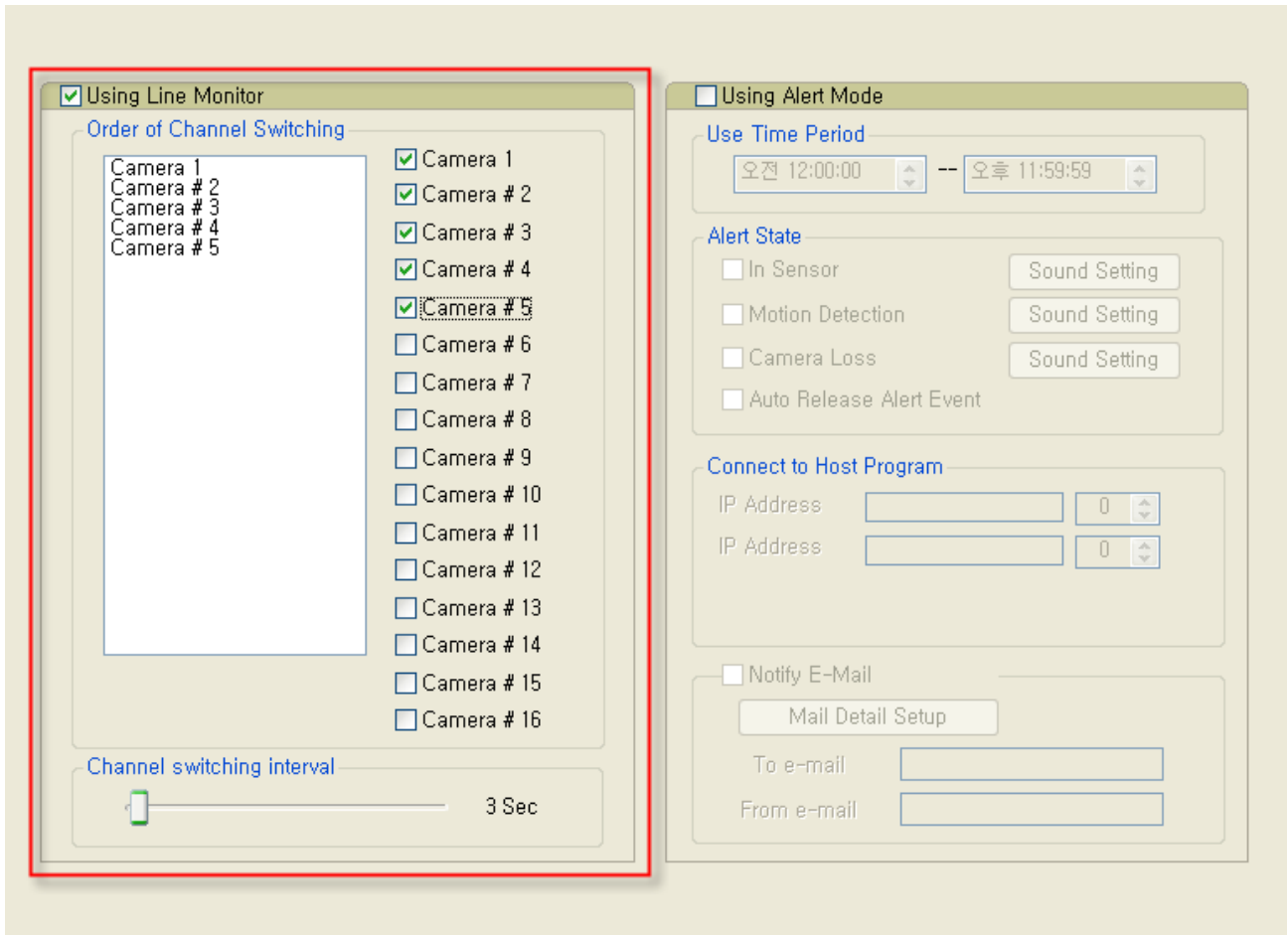
※ If you make system with more than two pieces of board, you have to connect monitor to Line monitor port of each board.

Using Alert Mode

When sensor input is triggered, or detects motion from server system with registration of pre-designated client communication address, the detected data information is transmitted with alarm to predestinated remote multi viewer when connecting in a network.
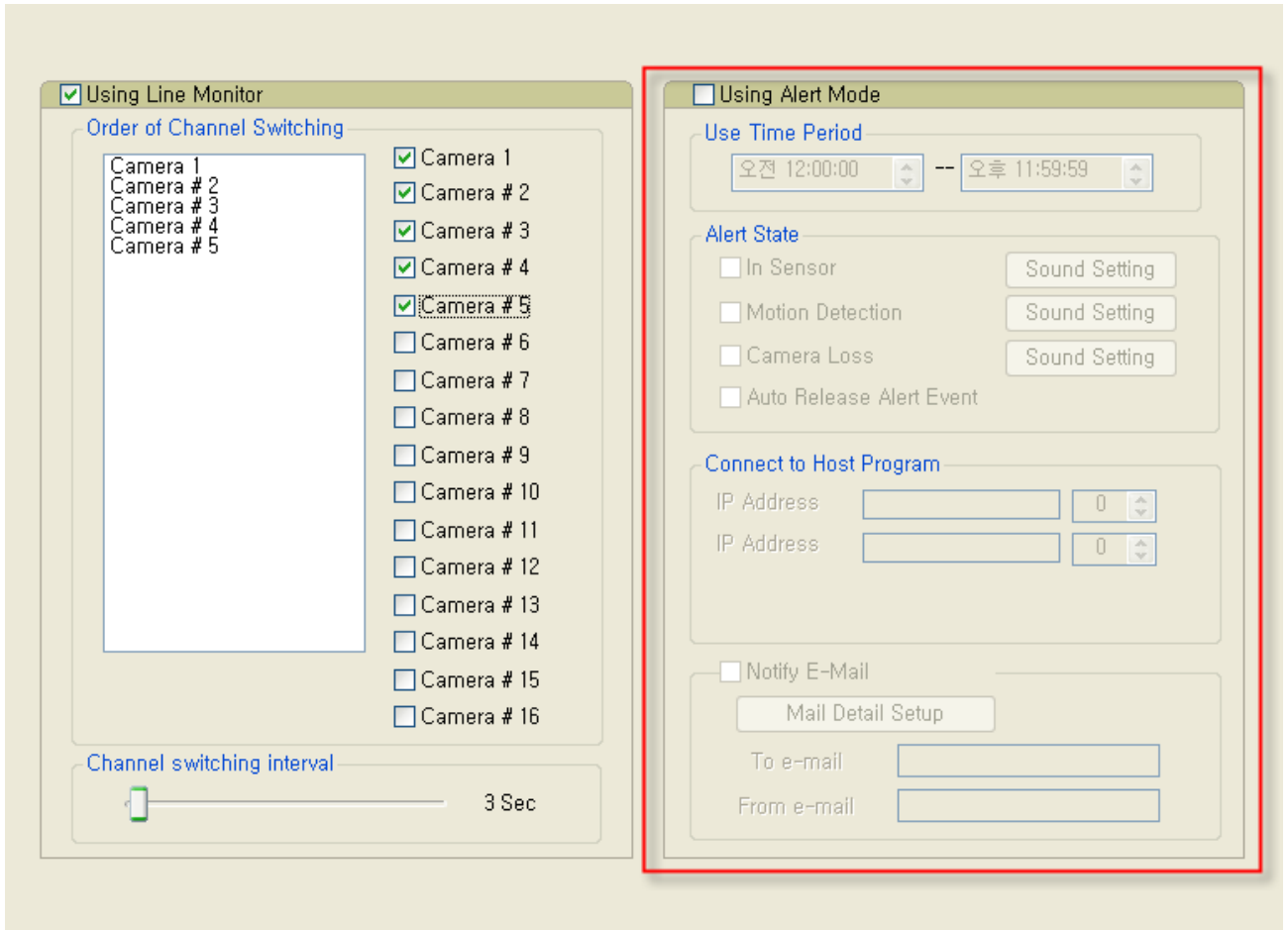
Auto Release Alert Event

To release an alert event automatically, check the Auto Release Alert box.
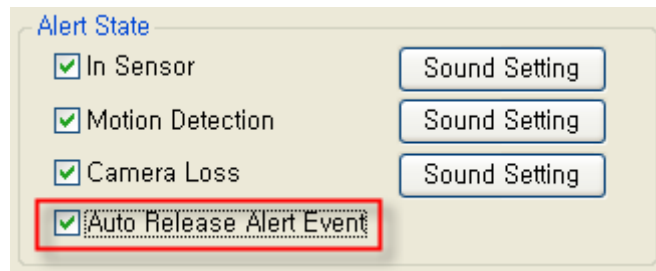
Notify E-mail

As detecting sensor, motion set in alert mode, Final image of camera and log data detected is informed to assigned E-mail address.

(For example: "dvr@dvr.com;bbb@dvr.com.net;mail;ccc@dvr.com")
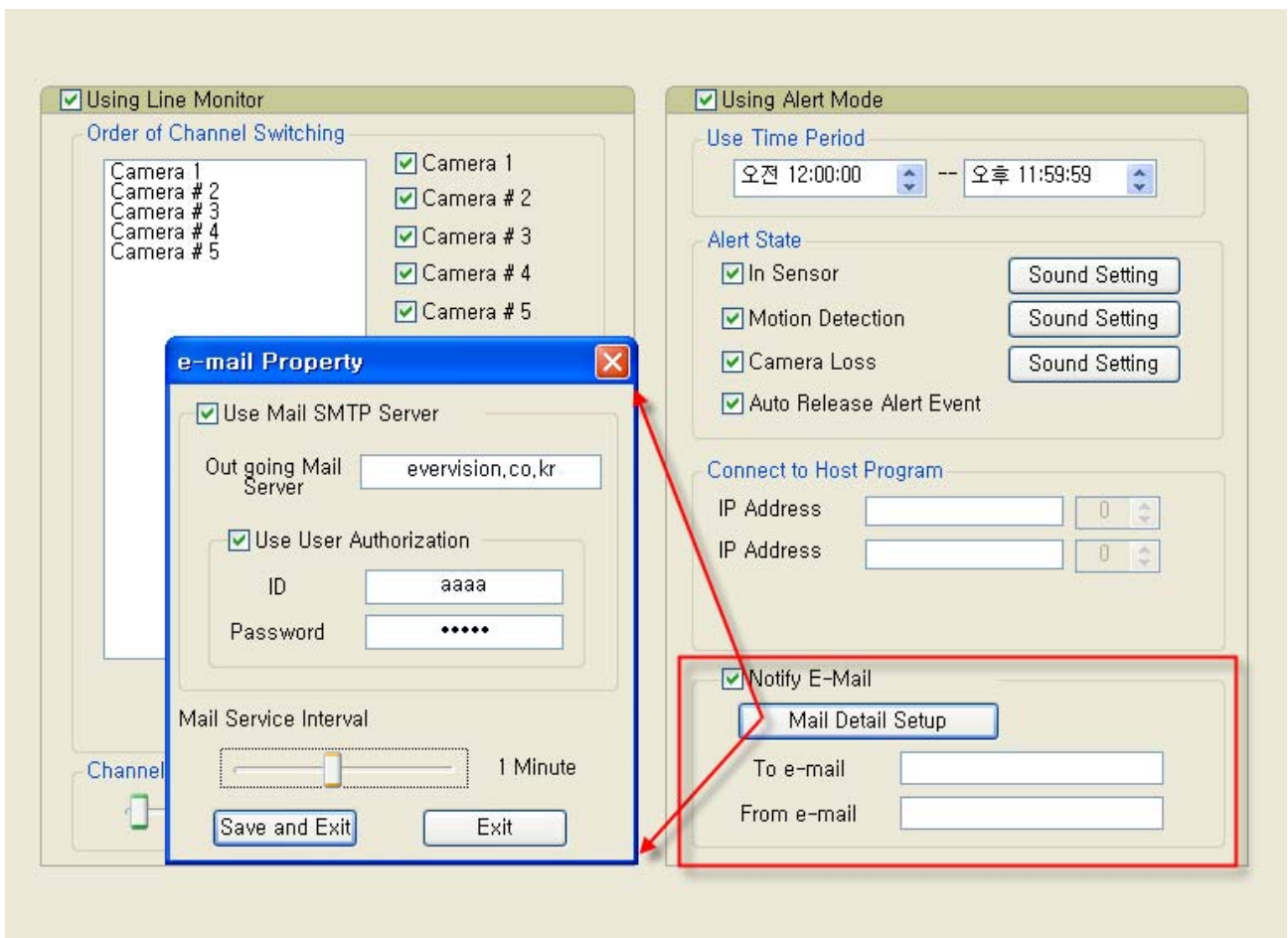
Integration with IP Surveillance (NVE04, IP Camera)

※ if you use 16120R, 16240R, 16480R, IP camera setup is not displayed.

By those cards specific properties, EverSecu can't use those cards with other IP surveillance.

EverSecu ver 5.5, can integrate with PC_based DVR, ESNVE**04** and IP camera.

This setup page is for setting **ESNVE04** and IP camera up.

On EverSecu ver 5.5, can integrate with analog cameras, **ESNVE04** and IP camera.
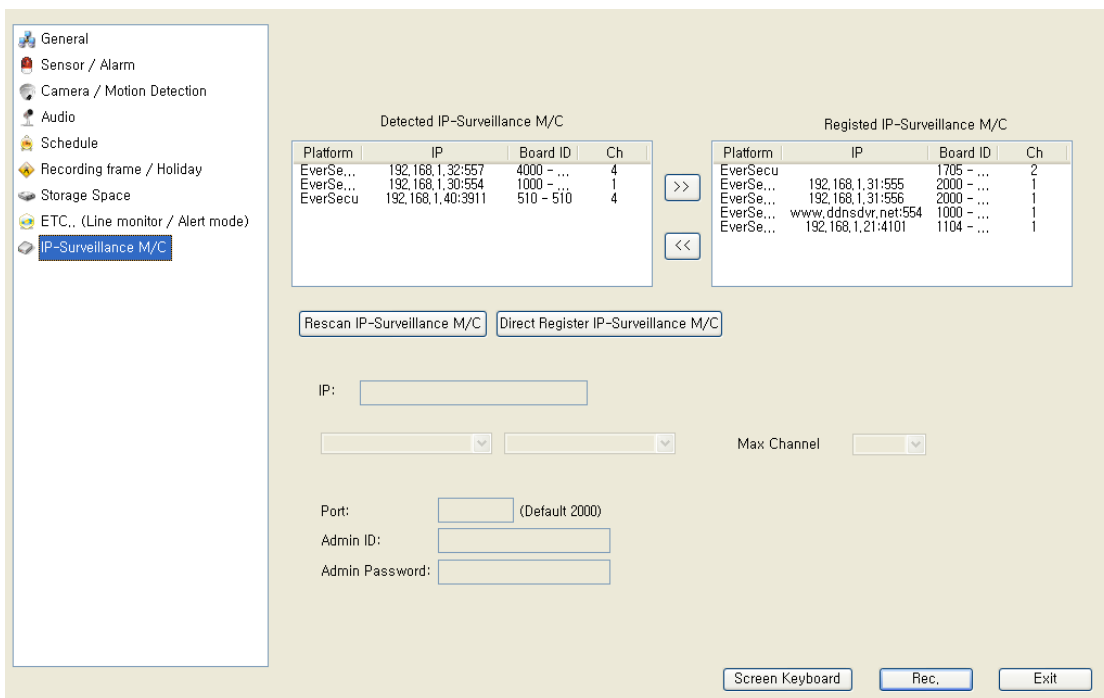
Register NVE04 and IP camera

It will be scanned and displayed automatically all of IP Surveillance on Local area network.
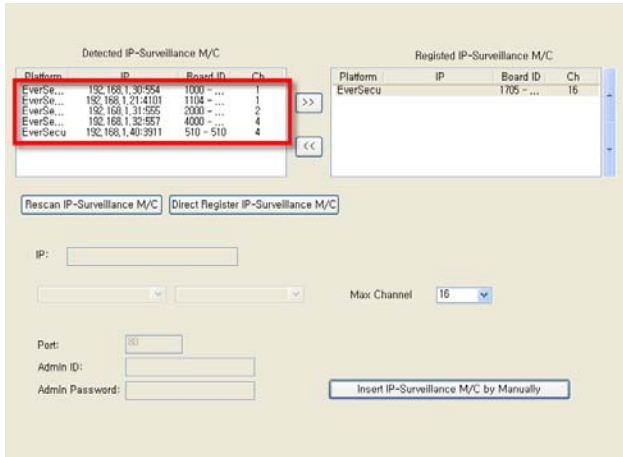
When you select an item on list, you can get information about the IP Surveillance.
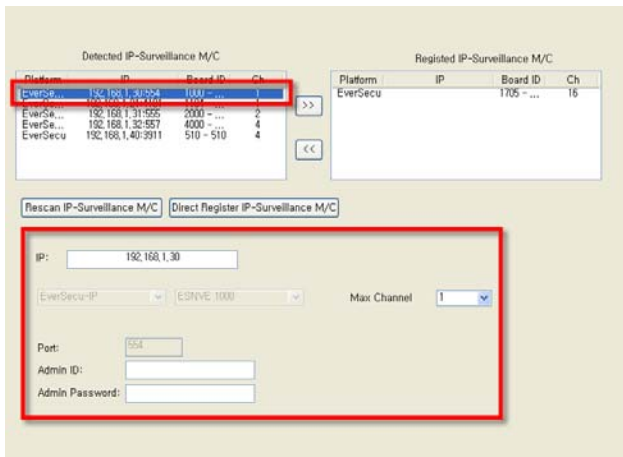
After you write the IP Surveillance's ID and password, you can register the IP Surveillance on your **EverSecu** by Clicking " **>>**" button.
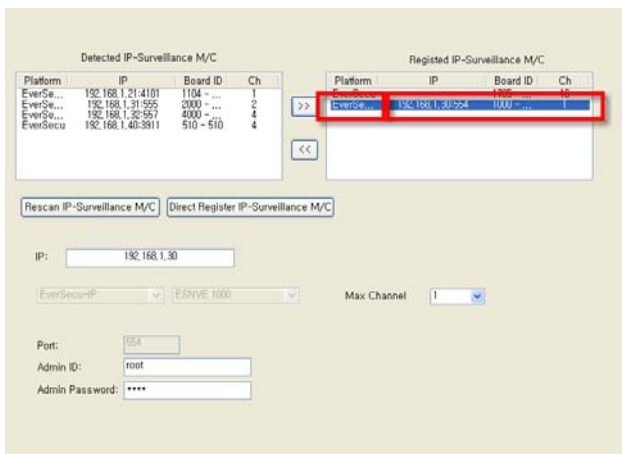
If you finished registry of IP Surveillance, you can get image from IP Surveillance as same as analog camera. But, if you could not get a IP Surveillance list on setup page, need to input that information manually. In NVE04 case, NVE04 is not on same network, so you have to set NVE04 information manually.

In this time, you should not check "custom IP camera."

In IP camera case, you have to set IP camera information manually on this page

Check "Custom IP camera" and set other information

Then Click "insert device manually"

**When you finished registering IP camera or NVE04, you have to enter setup page again for matching IP camera and NVE04 to each channel on EverSecu.**
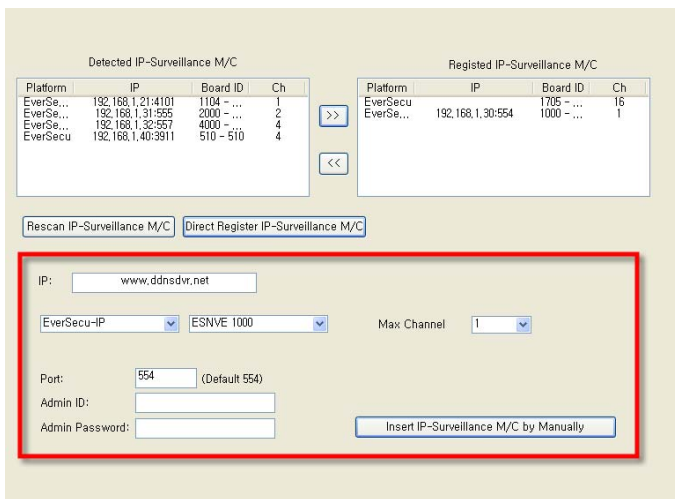
Changing NVE04's IP information

If you want to change **NVE04**'s IP, edit IP and write ID and password.

After edit some information, click the button"**NVE04** Update Info". And then, if you get this message box, setting for **NVE04** has done completely
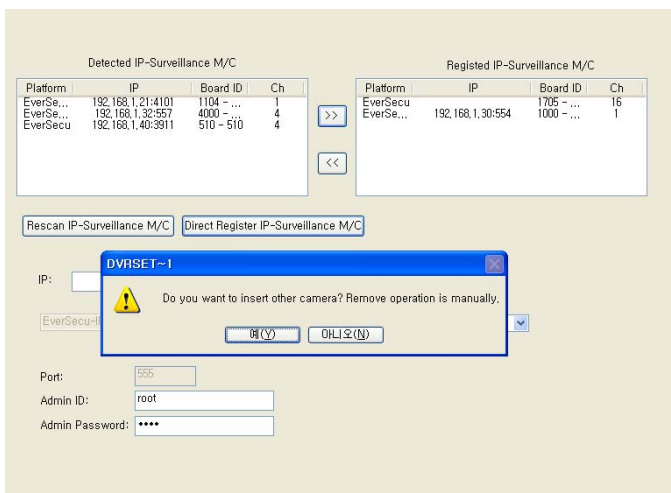
Direct Register IP-surveillance M/C

EverSecu is supported some specific IP surveillance as like IP camera, Network Video server. EverSecu is provided with several IP surveillance companies/

As NVE manual registration, select IP surveillance which you have, and set those IP address and other properties and click" insert device by manually"

Sunwisesoft	GC-400

Axis	206/206M 207/207W 210/210A 211/211A 221 260

AverMedia	NC2002

NVS	NVS100 NVS400 NVE

| Panasonic	BL-C10 BB-HCM311/331 BB-HCM381 BB-HCM311/331

pixord	300 207 201 241 200 120 126 205 261 4000 2000 1000

Vivotec	IP21x1 IP21x2 IP3129 IP3132 IP3133 IP3133 IP3134 IP3135 IP3136 IP31x1 IP31x2 IP31x7 IP31x8 IP5104 IP5114 IP5124 IP5134 IP51x2 IP51x4 IP6104 IP6114 IP6124 IP6134 IP61x2 IP61x4 IP71x4	PT3134 PT31x2 PT31x3 PT31x4 PT5104 PT5114 PT5124 PT5134 PT51x4 PT6104 PT6114 PT6124 PT6134 PT61x4 PZ61x2 PZ61x4 RT7102 VS2101 VS2401 VS2402 VS3100 VS3101 VS3102 VS3103 VS3107 VS3108 VS6100 VS6104

## Integration PCI type card and IP surveillance

When you use your PCI type capture card and IP surveillance, you can control PCI card's channel count. Even the PCI card has 16 channels video input **EverSecu** is not support over 16 channel yet]

For example,

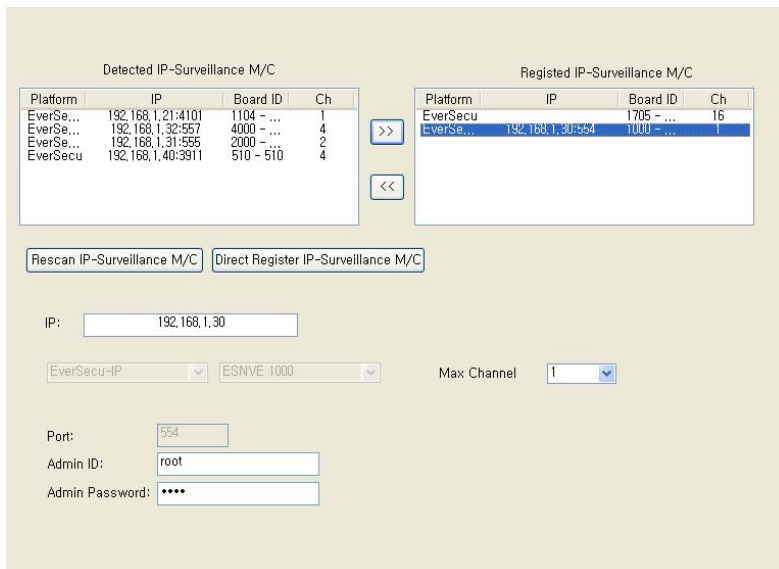Monitoring 16 channel with NVE4000 and a IP camera

① Enter IP camera setup page.

② Click "PCI" at a list on right side

③ Select number which you want to assign count for PCI card on "Max channel"
In this case, Max Channel set 13.
13 channel from PCI + 4 channel from NVE 4000 + 1 channel from IP Camera.
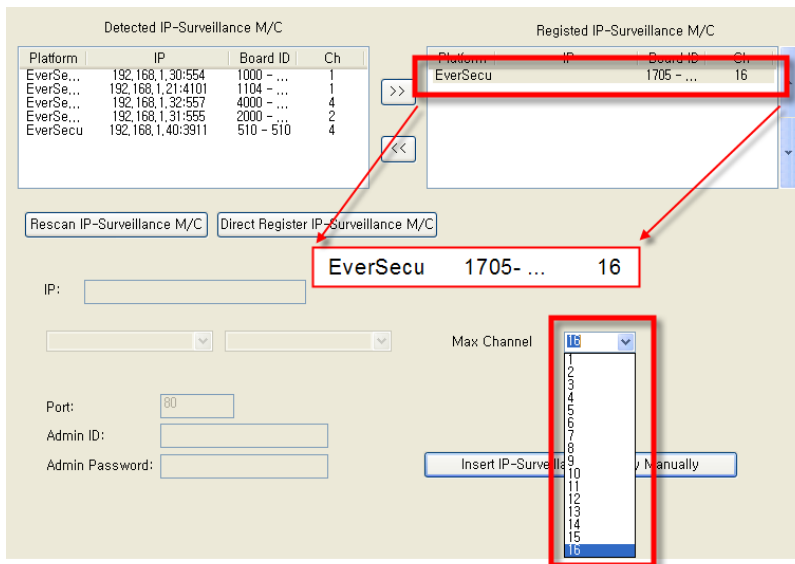
④ Click "NVE4000" at a list on left side and click to add

⑤ Click "Direct Register IP-surveillance M/C" to add IP camera

⑥ Select IP camera's Provided company and Camera Model on the box.

⑦ Set IP address and other properties and click "Insert Device by Manually"
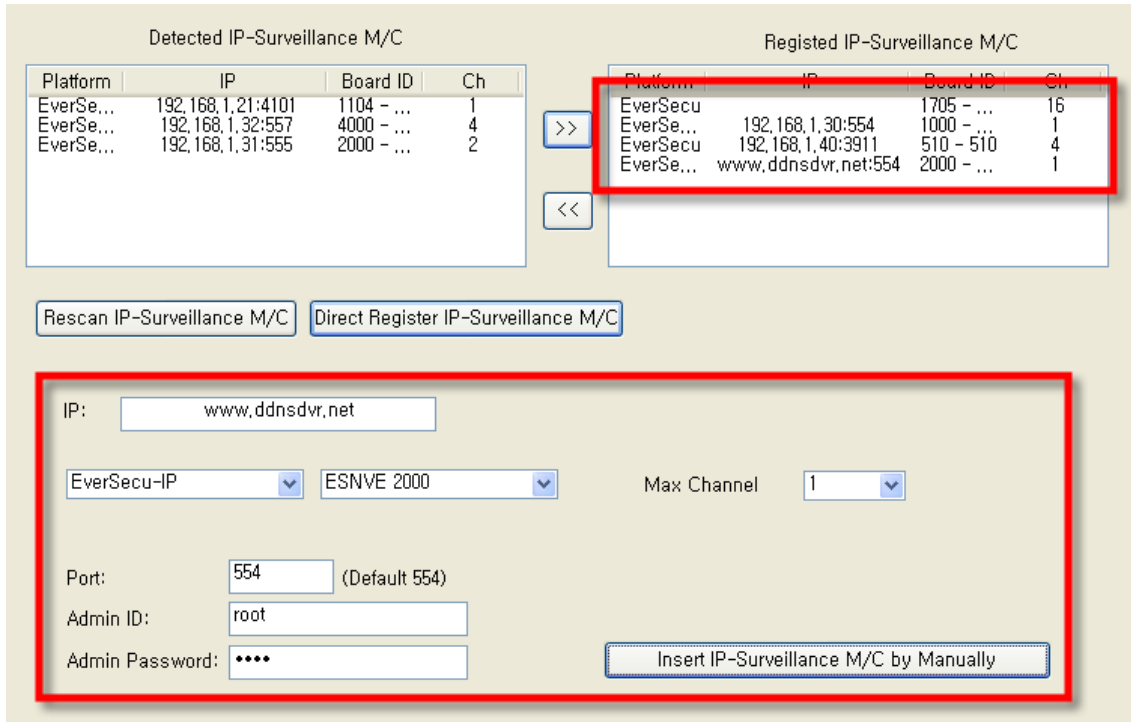
⑧ Exit from setup page

⑨ Click "Setup" button and enter "Camera/Motion" for checking camera connection.[If you exit without checking, some camera connection is lost]

⑩ Exit from Setup page.

Local Viewer

(Search)

Screen Overview

Backup Viewer

Motion detect play

Event List

Save

Print

Backup

Screen Division

Brightness

Zoom Ctrl

Backlight

Recording Date & Time

Recording Status

Motion Sensitivity

Exit

Play Control
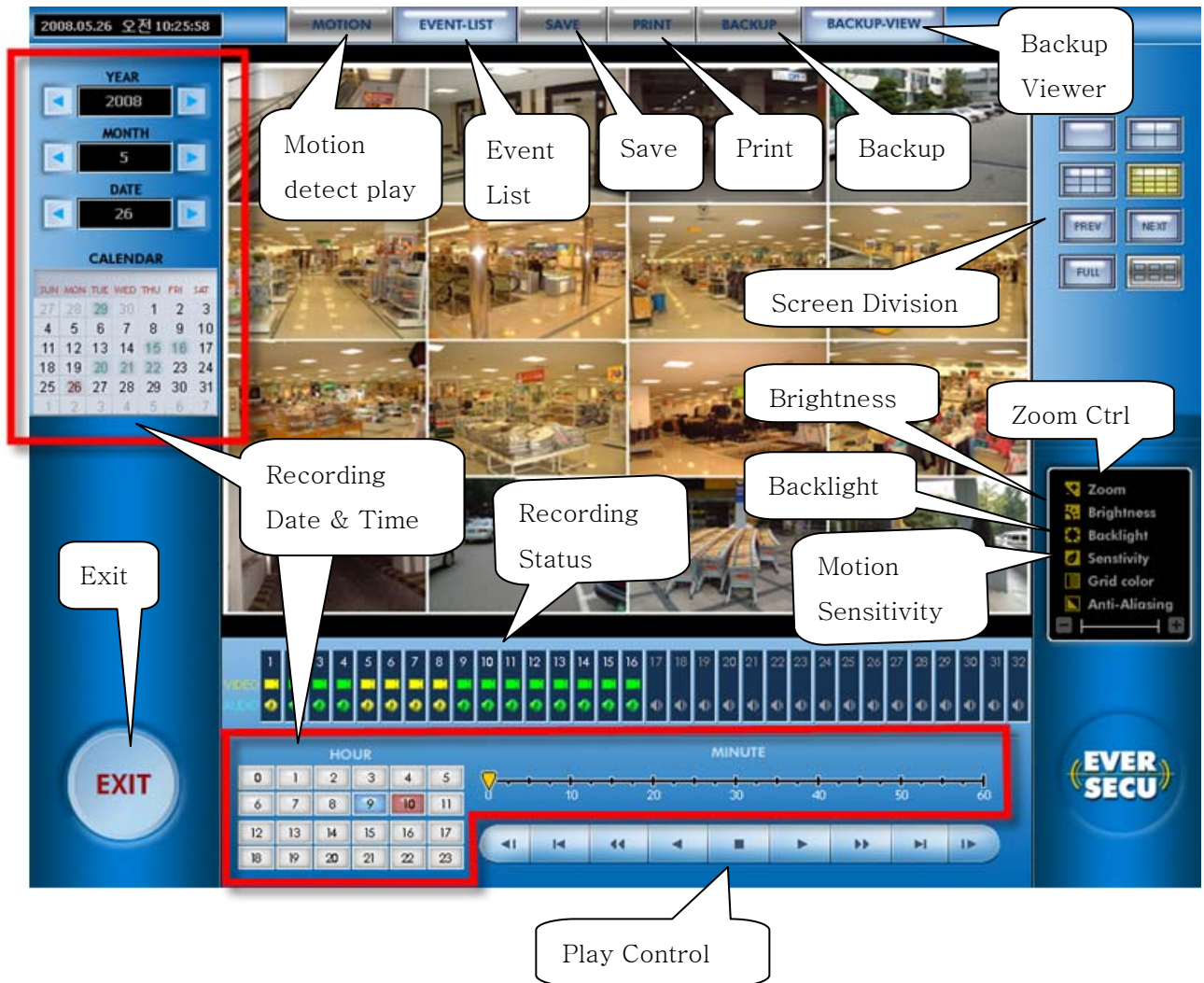
Running Search program
From main screen click **"Local Viewer (Search)"** button.

Choice Date and Time
The Date has data, is marked in highlight on displayed calendar. Also the time is marked in highlight on selected date;

Click the date and time, and the time which has data, is colored blue. Click on the blued data to display the data to the screen.
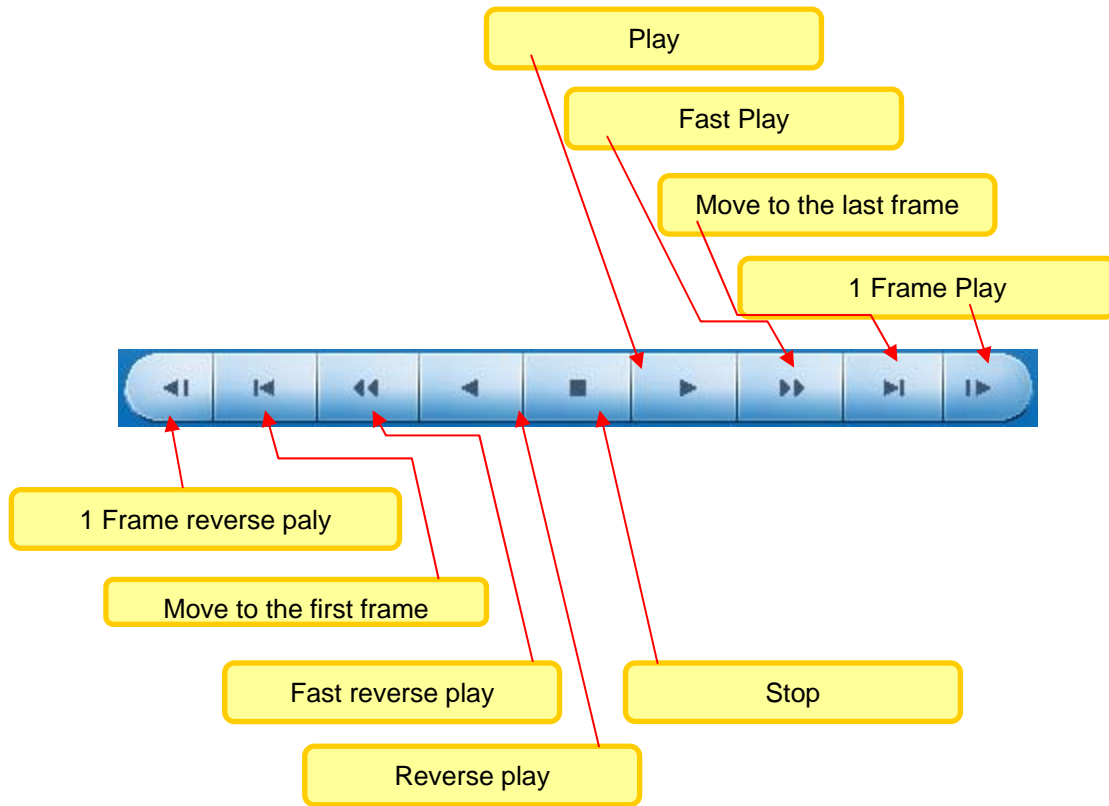

Choice channel
After selecting the date and time, all channels are displayed on screen at first time. If you wanted to search one channel, click the mouse on a channel window you want. The window will be outlined red box. All controls will work only within the selected channel.

Play operation

The slide bar of play panel corresponds to one hour. (The selected time)

First End	It displays the first image of selected time.
1 Frame Backward	Backward retrieval per a 1 frame unit
Backward	Backward retrieval. The image recorded by MPEG4 is skipping the image of key frame unit to next key frame. Fast backward is same.
Fast Backward	Fast backward retrieval.
Stop	Stop to play image
Fast Forward	Fast forward retrieval. The speed is a selected what times speed you selected.
Forward	Normal speed retrieval
1 Frame Forward	Forward retrieval per a 1 frame unit.
Last End	It displays the last image of selected time.

Screen division

EverSecu's retrieval program supports 1, 4, 9, 16 division screen.
Press division button that you want, and display that screen.

Thumb-nail Search
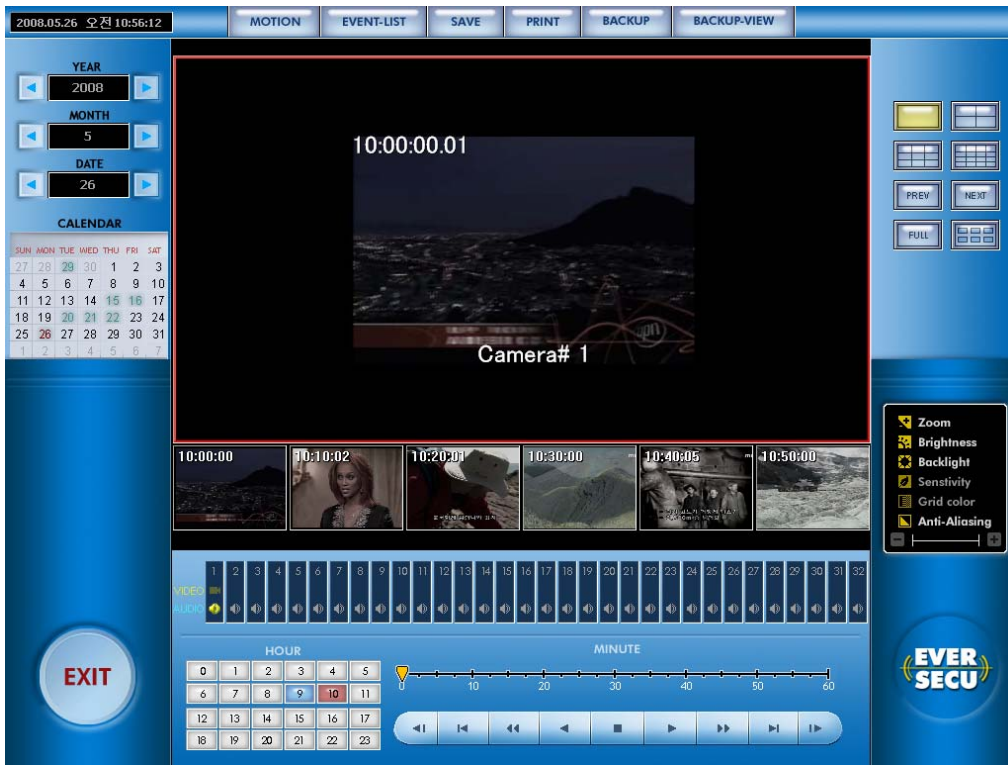
You can get the archived images to control the time interval by 10 minutes or a minute.

On a single screen division, if you click thumb-nail search button, you get images by each 10 minutes during a selected hour. And if you click again the button, you get image by a minute.

So you can find and search some specific image easily and fast.

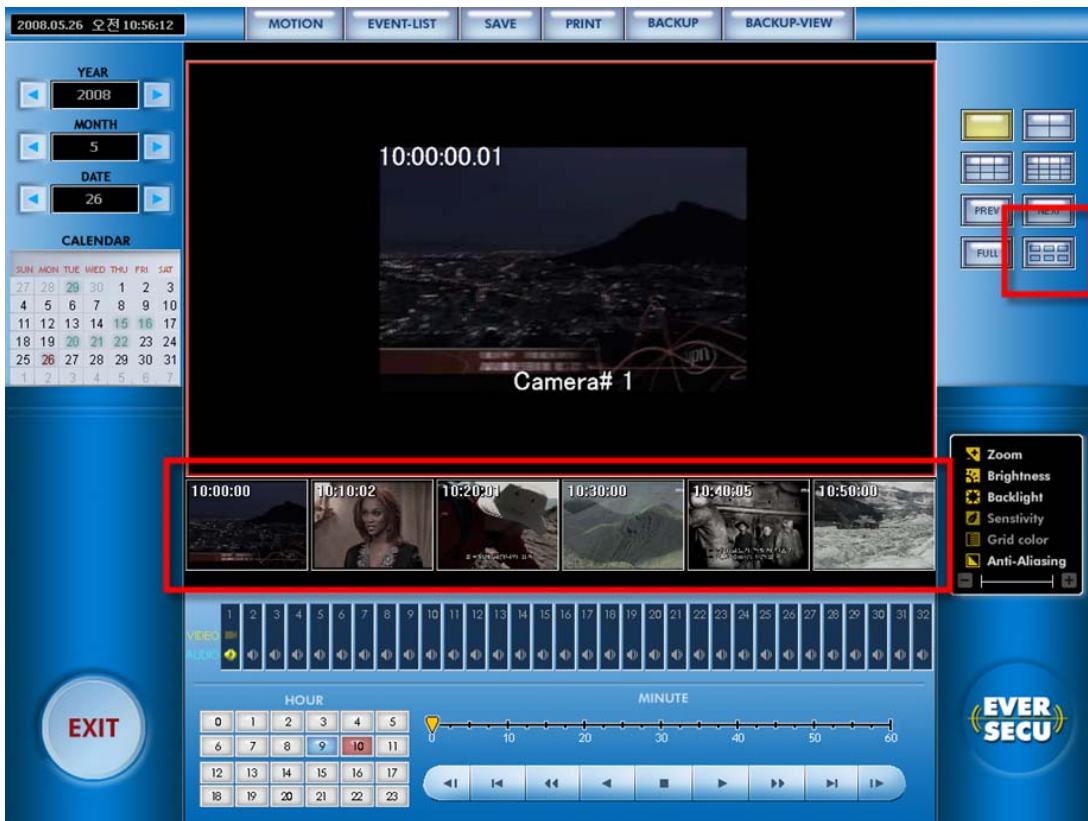1. Select a channel and make the channel single division.
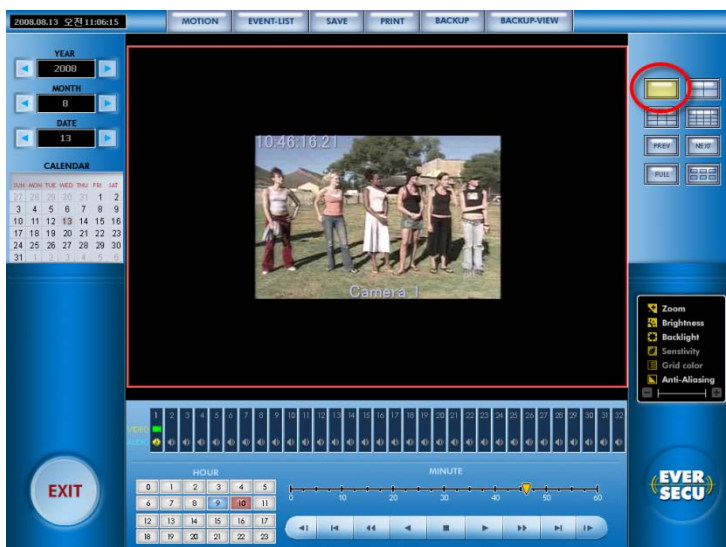
2. On single division mode, the thumb-nail button can be available.

You can see this below image after clicking thumbnail button.

This picture is for 10 minute time interval thumb-nail.

If you click one more time, the thumb-nail period will be changed the time interval of 10 minutes to a minute.

Change property of a selected channel

Each button is enabled when a channel is selected.

if you want to change each property of the channel, move the slide bar to **+** or **-** .

Also left/right arrow key is able to move slider bar.
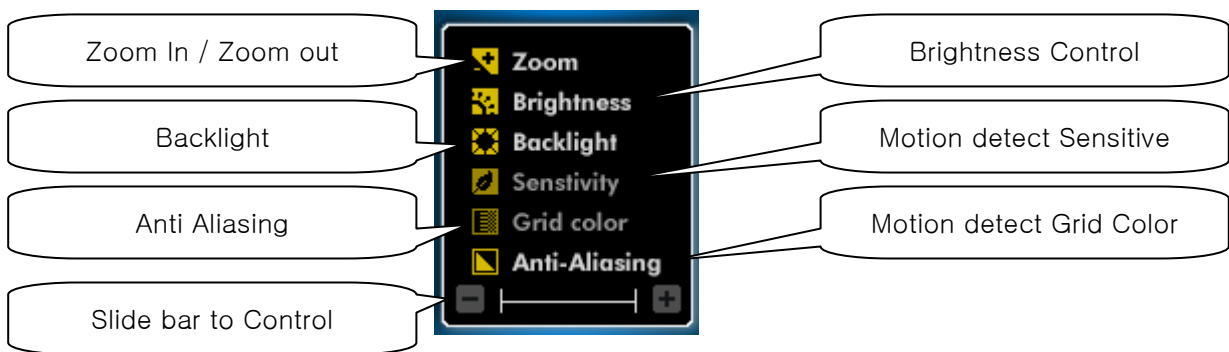
If you toggled each button, the property is reset.

| Image Zoom in / Zoom out	If you move slide bar to **+/-**, Image on selected channel is enlarged.
Control the brightness of Image	The Brightness of image is selected, is controlled by moving sliding bar
Control Backlight of Image	The backlight is adjusted on Image
Control Sensitivity of Motion Detection	sensitivity of motion detection increases or decreases the Image
Motion detect Sensitive	Motion detection Grid Color is changed
Anti - Aliasing	If you clicked anti-Aliasing, image is changed more softly

Multi Speed play

Multi-Speed play
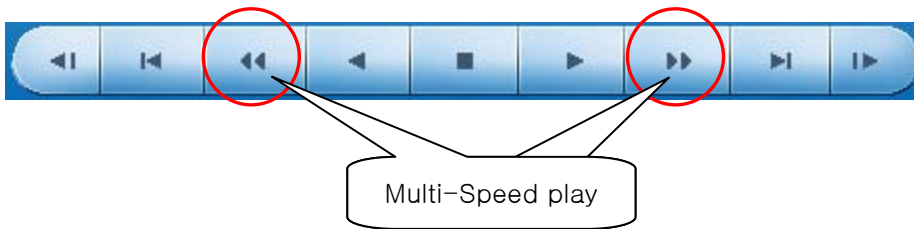
If you want to watch recorded data on Fast Forward/Fast backward, or watch the Data flame by flame, Set the display speed to what do you want(1x speed play is default.) and then clicked Fast Forward or Fast Backward button.

MOTION   EVENT-LIST   SAVE   PRINT   BACKUP   BACKUP-VIEW

Motion Detect Mode   Print   Back-up
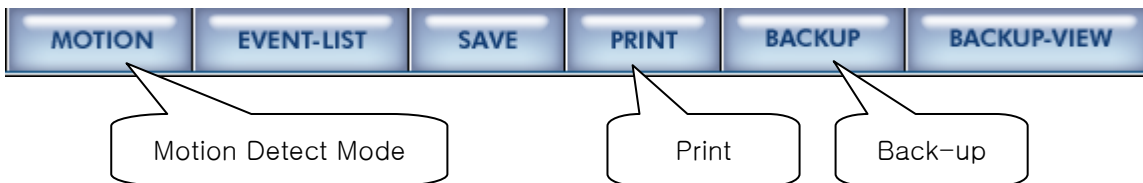
Each Button is enabled when a channel is selected
.

Save
To save an image, press "SAVE" button.
The selected channel will be saved as a file format of **"camera#_data_time.JPG".**

Print
Press this button to preview the image. Press Print again to print the image.

Motion detect retrieval Mode

To retrieve data that has been recorded during motion detection of a defined area of the screen, click left mouse button and drag the area you want to review view.
To cancel this function is clicked right mouse button and drag the area you want to review view..

Change the color of motion detection area

As the color of motion detection area is difficult to distinguish against the background color in the image, you can change the color of the detection area. To activated the color change click on the grid color button and adjust the slide bar to change the color.

Change the sensitivity of motion detection

To activated the sensitivity of motion detection click on the sensitivity button and adjust the slide bar to change the sensitivity.

Back up
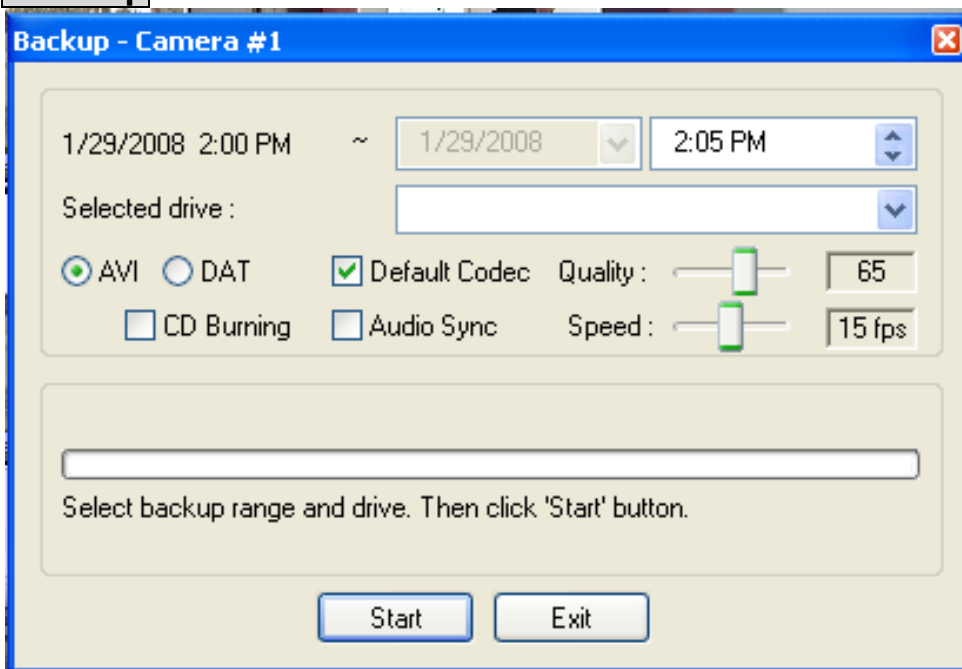
1. AVI Back UP

EverSecu support the file format of AVI for Multimedia use with Windows OS.
- The starting and ending time of the data back up should not exceed 600MB.
- Select the drive that you want. If you want to back up in CD, you should have the software such as "Direct CD," and select the "CD" drive to back up.
- And select CODEC, the basic CODEC is MPEG4. If you do not select **"Default Codec"**

in check box, a list of installed CODEC will be displayed, select the CODEC that you want.

- set Recording Frame per second and recording quality.

- Click the **"Backup"** button, start it.

2. DAT Back up

DAT Back up is a method that back up the raw data of *EverSecu*,

To invoke the feature;

- Check **"DAT"** in Check Box.

- Key in the start time and the end time.

- Select the drive letter that you want to back up.

- Click the **"Backup"** button, and start.

3. CD Burning

If you have a CD writer, you can backup in CD with this function.

- Insert Blank CD

- Check "CD Burning

- Click the "Backup" button, and start.

4. Playback of DAT' data

- When EverSecu make Backup Data, Backup Viewer is copied to the backup folder.

- Press the "**Backup View"** button

- The function key controls are the same as retrieval program.

- If user wants to check backup data from other computer, user has to install "Backup Viewer" by installation CD, and search data.

Retrieval Event List

This function includes the running time and end time of DVR system, the controlled contents for running time and the event of sensor in action.

If you want to return another function from **"Event List,"** click again the *EverSecu* button (Toggle Button). When you want to display the image, double click the event that you want, and then come out the retrieval screen, display the image that event occurred. (If the image at that time is not recorded, no change the screen.)

"Today Event": Display today event on Event List

"Day Unit Event": If you clicked on "Day unit Event," date list is shown on left side. And then clicked which day you want to search, event list is shown on right side.

"Search Special Event": This function is that you want to see the event in particular.

You can see by **"Set up period," "Search filter."**
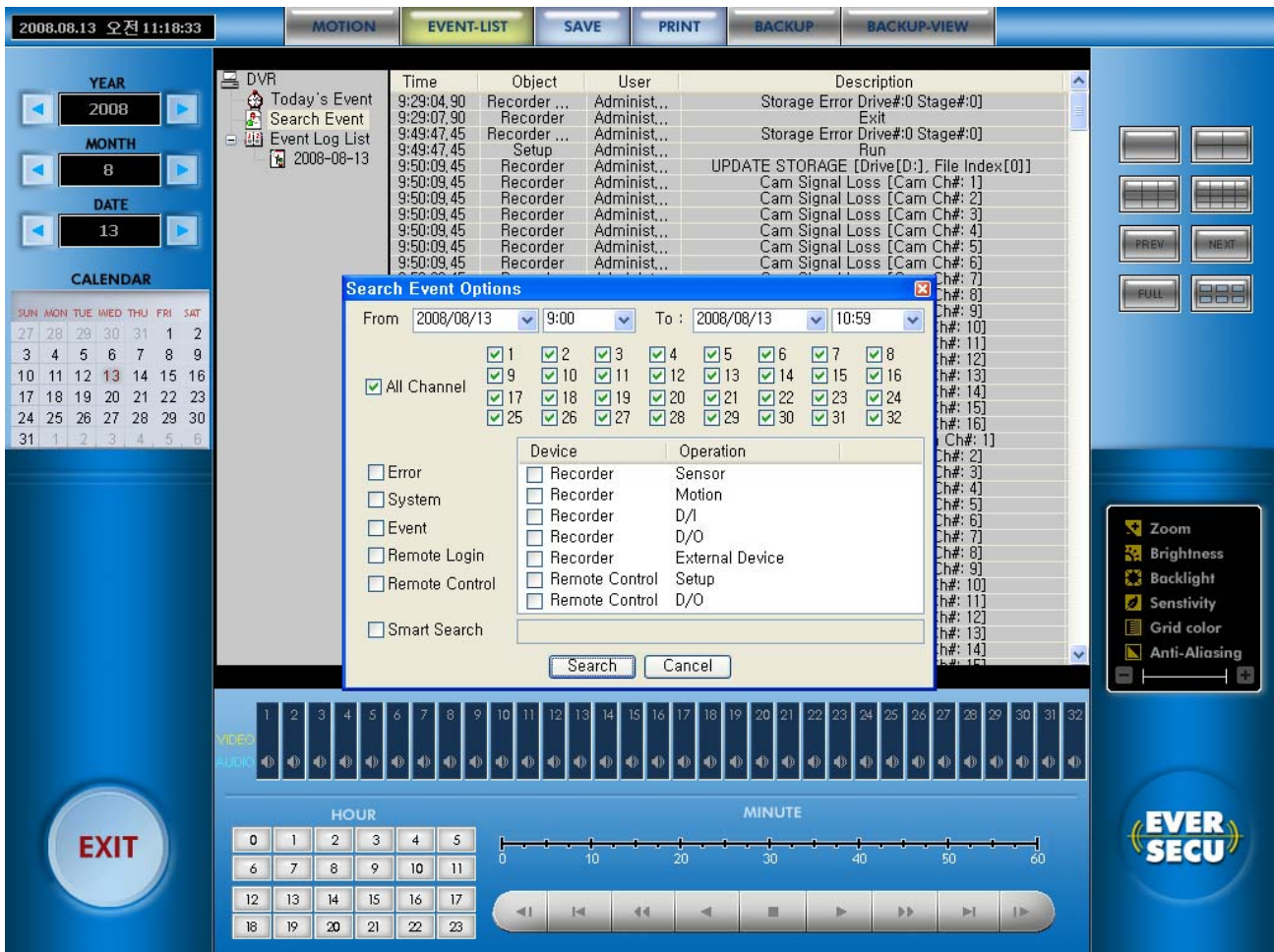
Keyword Search [when it used External device]

If *EverSecu* is connected with, and communicated with some External Devices (like POS, ATM etc…), all data which is analysis, is able to be recorded.

In this case, so many data was recorded, it is hard to find some specific data on List.

Keyword search gets data with more detail condition easily.

Click "Search Special Event"
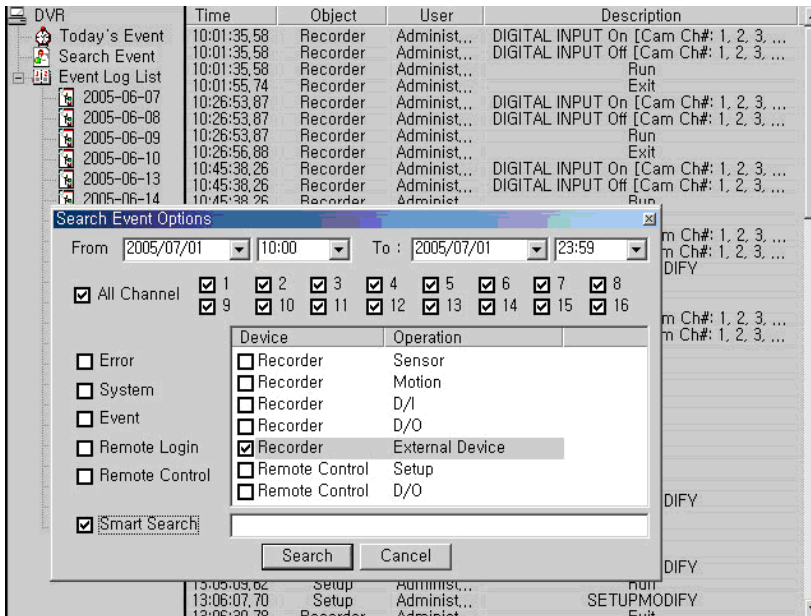
Select external device and put a keyword what you want to find in recorded data list, *EverSecu* will make a list that has matched item.
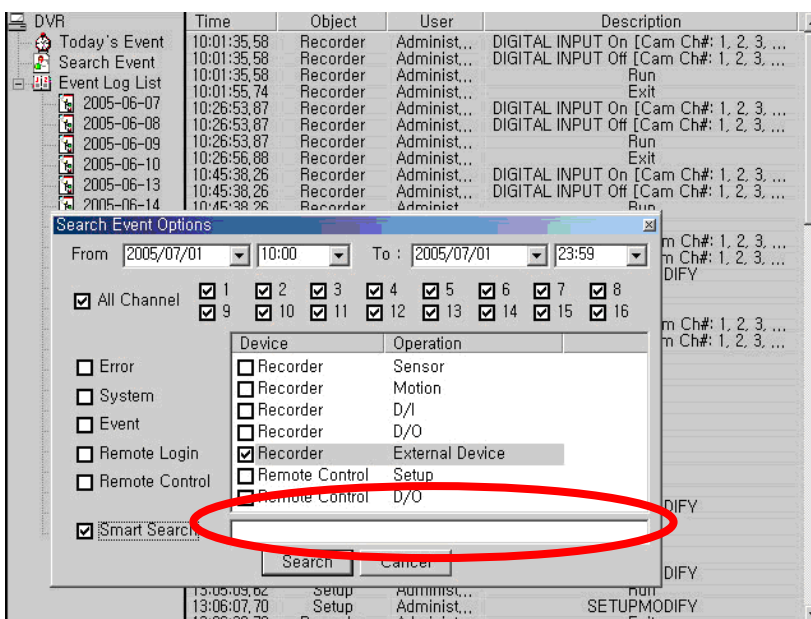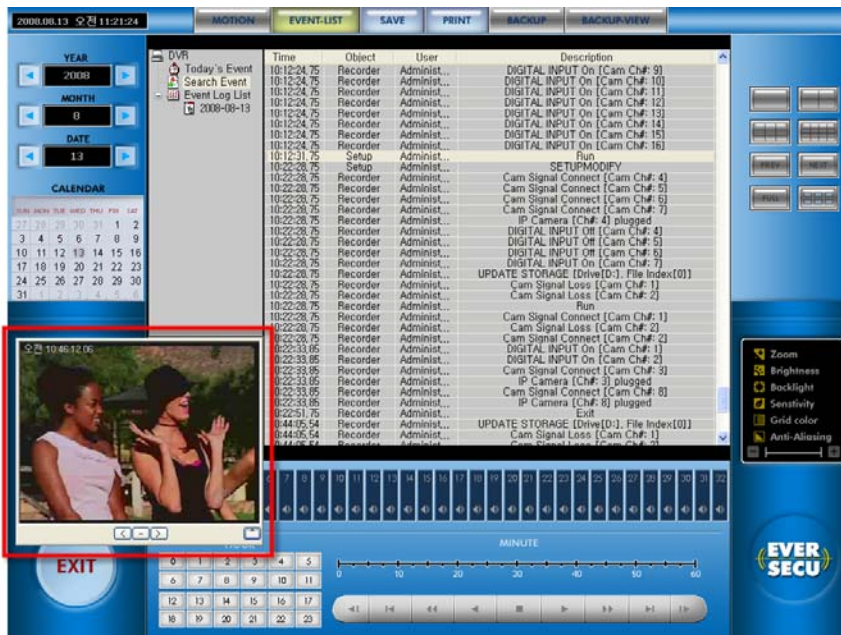
Directly display archived images on Event log List

If you click the log list and the log has recorded image data, you can see the recorded image through a small screen under date tree.
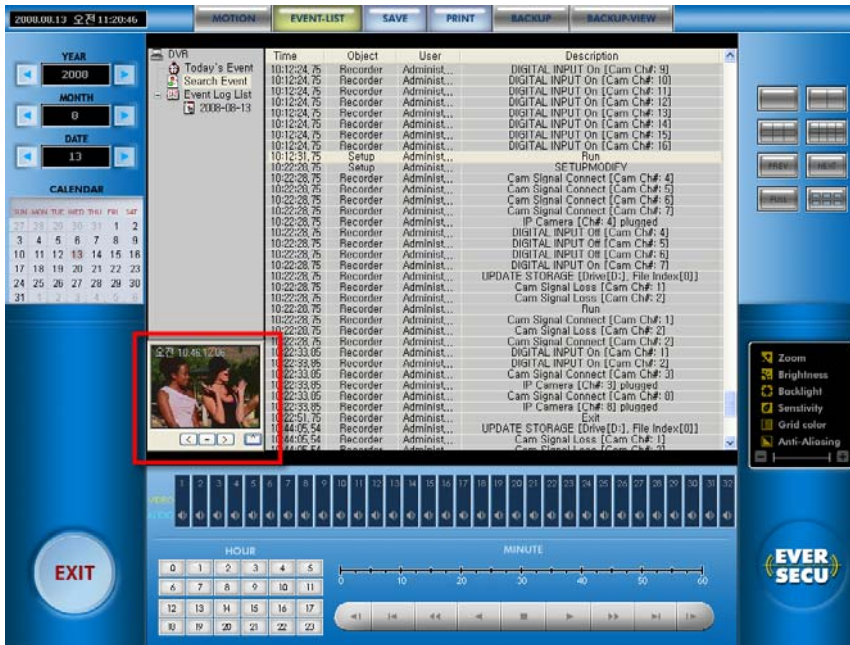
You can control as backward, forward and stop, to check log and the recorded image on small screen automatically.

Also you can make screen 320*240 size by the button "^".

Print Eventlog List

If you click print button on Log Viewer page, you can print loglist as below picture.

Save Eventlog List to text file

If you click save button, you can make log list to text file.

E-Map

E-map Editor and Operation Manual

E-map Editor

E-map is an application for being easier to figure out and monitoring more effective.

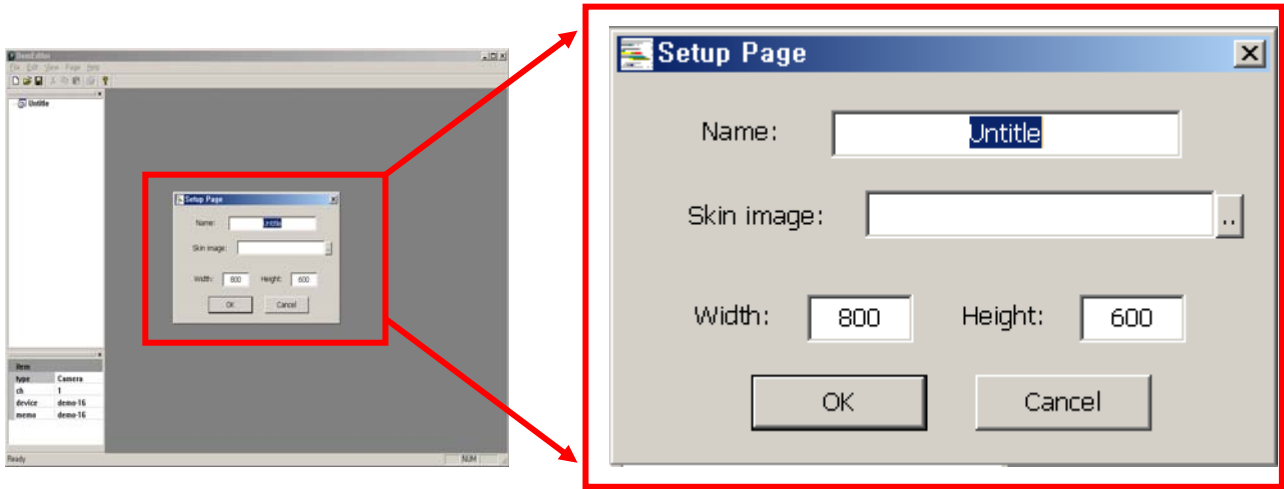E-map make DVR monitoring with icons-DVR's function on monitoring area map as like structural drawing, or diagram.

DVR user make their own E-map through this E-map Editor.

Configuration
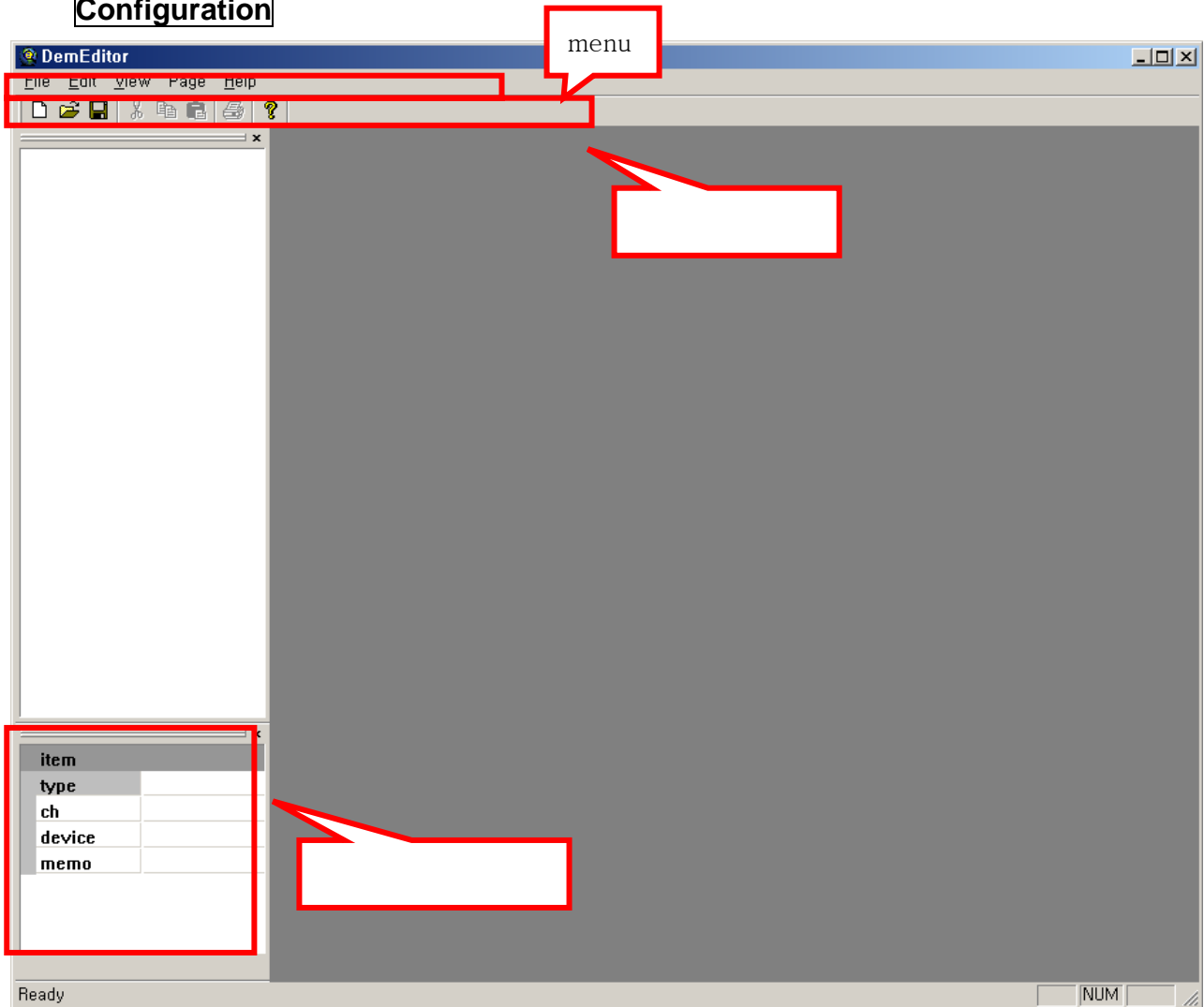
1. New page.

select "File->new" or click   on shotcut icon.

Set E-map's displayed size, grid size, and Margins

If you have picture or drawing about monitoring area, set paper size as same as the image file.

Grid help you to place those icons at perfect position on screen.

2. Camera, Audio, Switch, Sensor

Those icons need setting values as like channel, IP address, and etc.

4 different type of icon has same setup.

It will be explained about camera. But Audio, Switch, Sensor setting are all same.

You can place 4 type of icons with Drag & Drop

Click icon which you want, and drag where you want to place

Then release clicking.

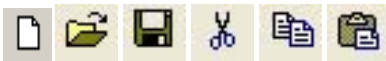Also all 4 type of icons can cut, copy, paste, duplicate, and grouping.

If icons is overlapped each other, you can set those icons sequence by "up", "down", "to front", "to back"
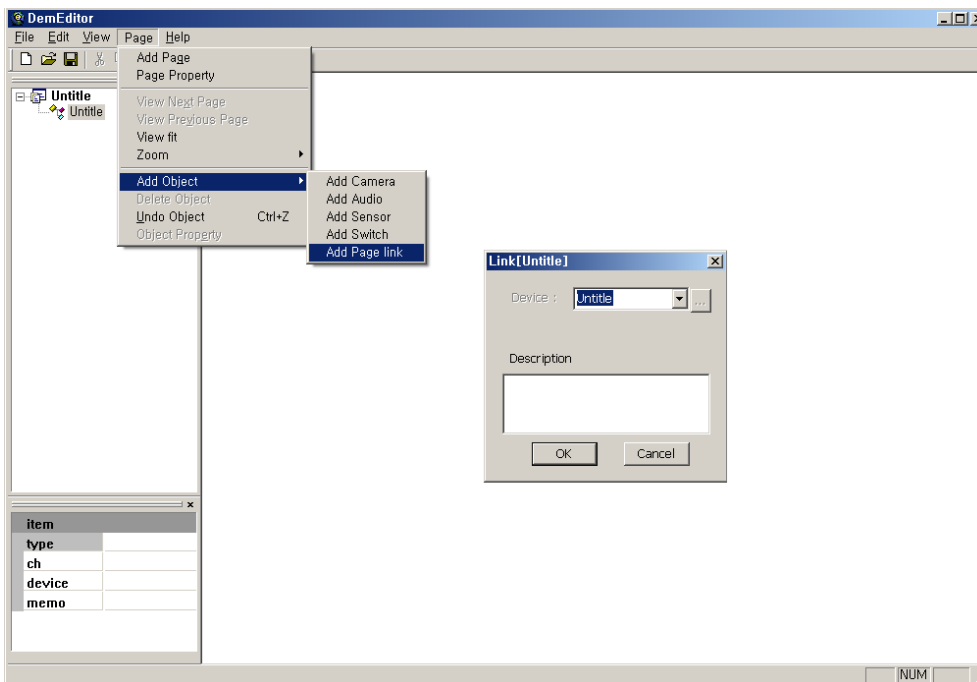
1. Camera on Recorder

Set channel on device Information.
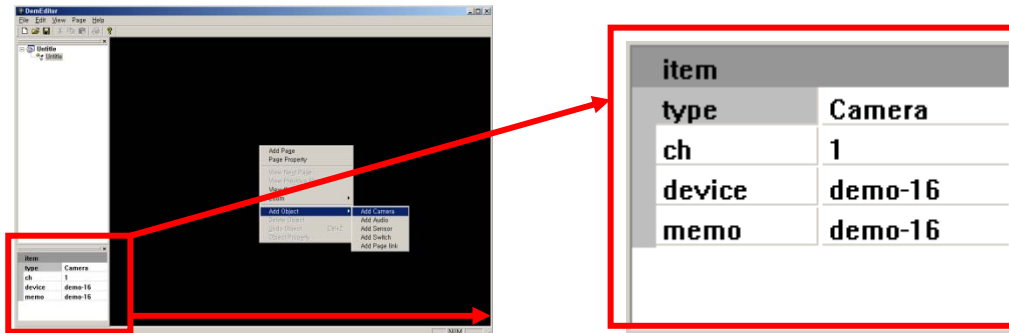
3. Warning

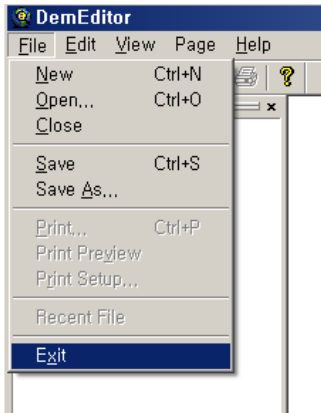## 4. Link

When you monitoring more than one map, you can make link for change e-map by clicking
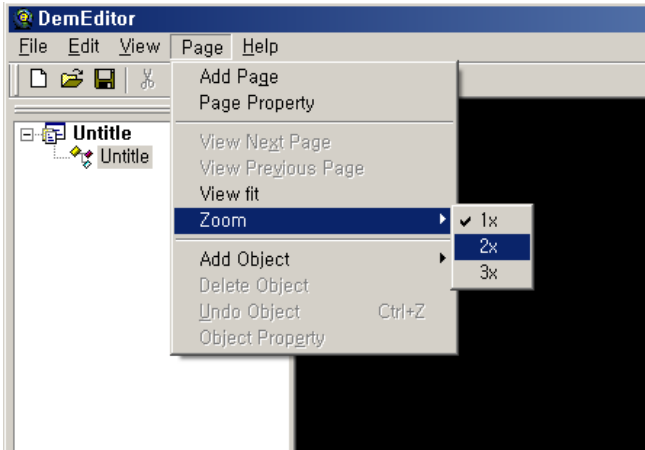
5. Exit

Exit and go back Recorder or Remote Viewer.

6. Open e-map File/ Open Background image File.

Open the Saved E-map Files for Editing.
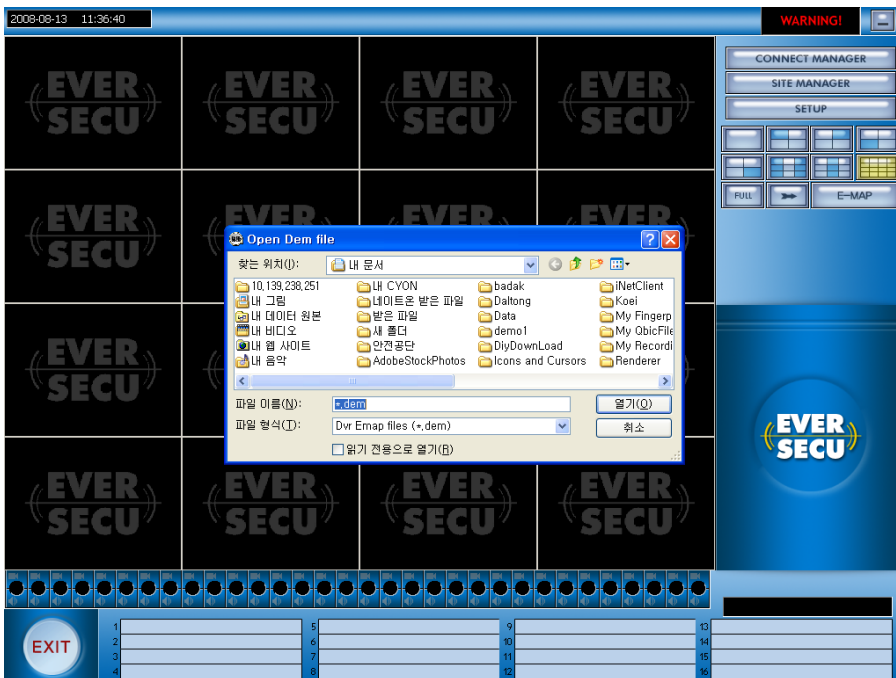
7. Zoom in/out

You can zoom in or Zoom out

3. Running E-map

1. Click E-map button for running E-map

2. If Dialog is popped up for E-map file, find and open the edited E-map File.
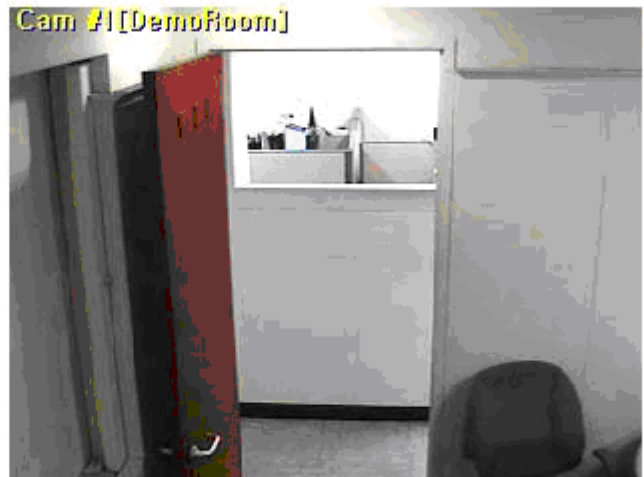
3. you can see E=map running as you edited.

Operation Configuration

A. Camera

Camera doesn't have connected or any image transfer.

Camera have image and information.

If you click this icon on E-map, Camera Transferred Image is showed up.

B. Audio

Audio has data and information.

If you click this icon on E-map, Audio function will be show up.

C. Switch

If you move mouse-cursor on Switch icon, E-map displays the icon's information

Switch Off   Switch On

D. Sensor

If you move mouse-cursor on Sensor icon, E-map displays the icon's information