User Manual

DVR Server v2.0

Digital CCTV System

Safety Precaution:

- Make sure switching the power off before you install the DVR board

- There is possibility of electric shock inside of the DVR, please avoid opening the unit if you are not qualified service personnel

- While the DVR is under removing, storing or using, please avoid any vibration or strike

- Do not store under the direct sunlight or near by heating

- Avoid humid, dusty or smoky environments

- Avoid extremly hot or cold areas

- This equipment should not be exposed to water or other liquids

- Install the DVR in a well-ventilated area

- Avoid excessive electronic or magnetic fields

Limited Warranty

This product is warranted against manufacturing defects for the period of one year.

The warranty period commences on the date of purchase from the authorized reseller/retailer.

You original purchase invoice, showing the date of purchase of the product is your proof of the date of purchase.

During the warranty period, defective parts will be repaired or replaced. There will be no charge for labor or pats during the one-year warranty period from the date of purchase. Any shipping or other cost such as customs incurred costs, etc…. is customers' responsibility.

This warranty does not cover any failure resulting in loss to SW, data, lost profits, lost saving any incidental damages or other economic consequential damages due to accident, abuse, misuse, and negligence.

Technical Support and Service

For warranty service and assistance, it is recommended that you contact the place of purchase to arrange for return and/or repair the product.

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※ Preview of DVR Server v2.0 Screen Mode

　Monitoring screen Mode of DVR Server

　Search screen mode of DVR Server

Chapter 4　Warranty

DVR Server v2.0

Chapter 1:   Introduction

Thank you for purchasing DVR. This manual will provide detailed instructions on how to install and program the DVR to your specific application. Please read this manual carefully prior to install and programming the DVR.

1-1. General Guidelines

1-2. DVR System Requirements

PC

- OS : Windows 2000 (Require DirectX 8.1 or higher) and Windows XP
  Please install 8.1 version of DirectX before install DVR Server Program on Server PC for Windows 2000 Only

- CPU : Intel Pentium IV 2.4GHz/ Cel 1.7GHz or higher
- RAM : 256MB or higher
- Network : 10 /100Mbps LAN, Modem, xDSL

System Description

Digital Surveillance System is a PC based monitoring system. It exceeds the capabilities of traditional analog switchers, multiplexers, and time-lapse VCRs. The system is able to connect up to 16 cameras with each at the highest frame rate, records high-quality digital video based on motions. The system offers digital recording, remote camera viewing access, video archiving, and multi-camera display. The system supports PTZ camera.

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1-3. Compatible HW Device

Compatible

	Compatible	Incompatible
CPU	Intel Pentium Process (x86, 1.7GHz or higher) - Intel Celeron 1.7GHz or higher - Intel Pentium IV	- Lower than Intel Pentium Process 1.7GHZ - Other than x86
Main Board	With one or more PCI slot, supporting Intel Pentium processor - Intel 84x Chipset - Intel 85x Chipset	- Other than Intel Chipset Boards
Graphic Card	With 8MB or higher memory, Supporting 16Bit Color and YuY2 DirectX Mode (8.0 or higher) - ATI Expert 2000 32MB SDRAM - ATI Radeon System - nVidia Riva TNT2 System - nVidia Geforce System - Intel 845G/GL Graphics controller (OnBoard).	- Intel 81x Graphics controller(OnBoard) or Intel i740 - VIA Chipset(OnBoard) Graphics controller. - SIS Chipset(OnBoard) Graphics controller.
Sound Card	All PCI & OnBoard Type	
HDD	HDD 5400RPM or higher	

Chapter 2: Installation

Chapter 2

2-1 Hardware Installation

Caution: Static electricity can damage electronic circuitry. To avoid static discharge, touch a grounded metal object (i.e. your PC case) or wear a grounding strap connected to a ground source.

Make sure Power and cables are connected properly otherwise it may cause damage to the equipment (not cover under warranty). Always turn off the PC power before connecting or disconnecting any jumper or cable on the drive.

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2-1-1. DVR Board Installation

1. Prepare your computer for installation.
: Before working on your computer, make sure all electrical cords are unplugged.

2. Remove the system unit cover.
: You can easily find how to remove the system unit cover if you look carefully at the back of the system.

3. Locate the PCI bus slot. Make sure this slot is unobstructed.
: You need empty PCI slot as many as the boards including DVR and channel boards.
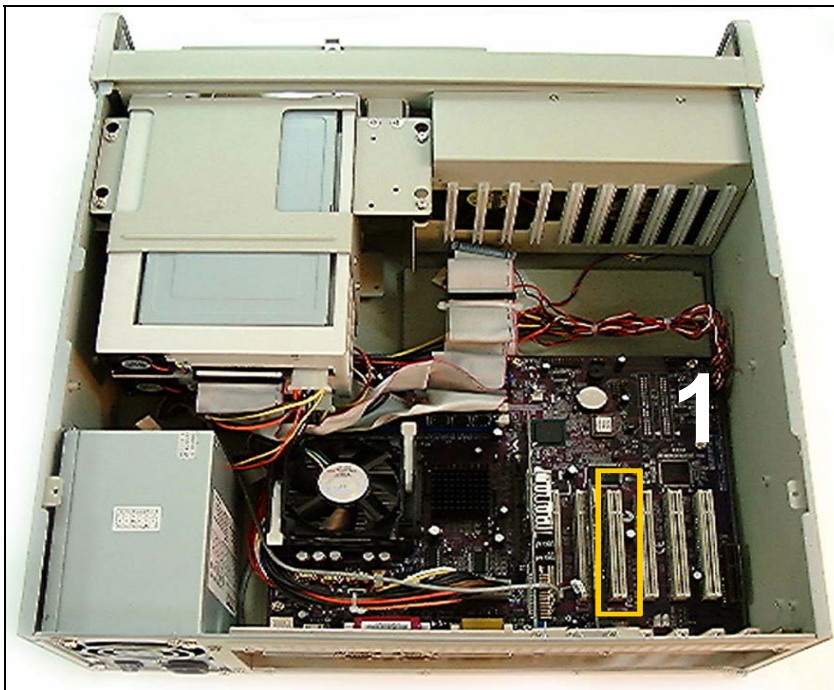
① **PCI slot**

4. Place the board directly over PCI slot and insert one end of the card down into the slot firmly but gently. Make sure that the metal contacts on the bottom of the host adapter are securely seated in the slot.

DVR Server v2.0
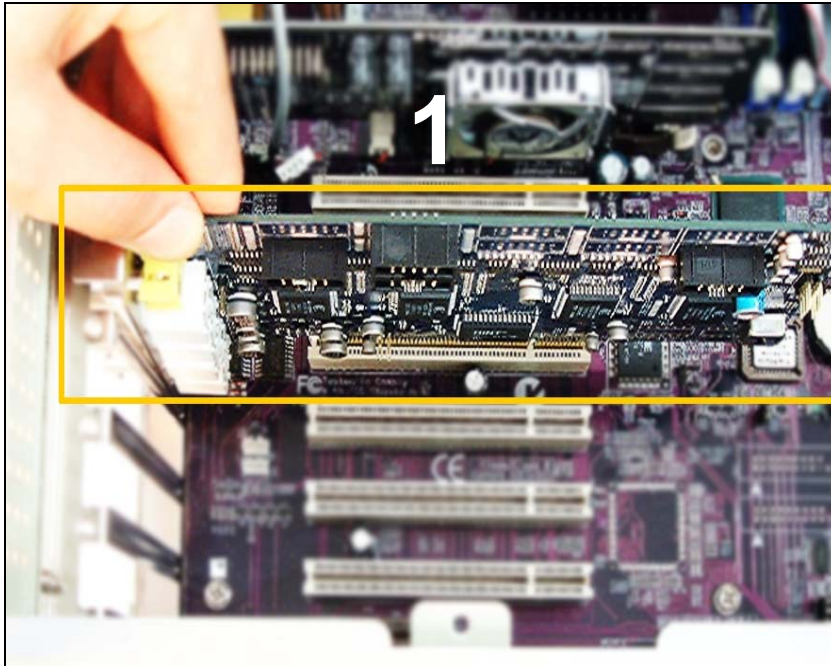
① DVR board

5. Fasten the bracket screw.

6. Connect channel board to 5~8ch parallel connector on DVR board
   Position of 'channel parallel connector' might be different up to DVR model.
   Please refer to '2.1 DVR board is drawing' for parallel connector position.

   All the optional channel boards and channel board cables are same and alternative.
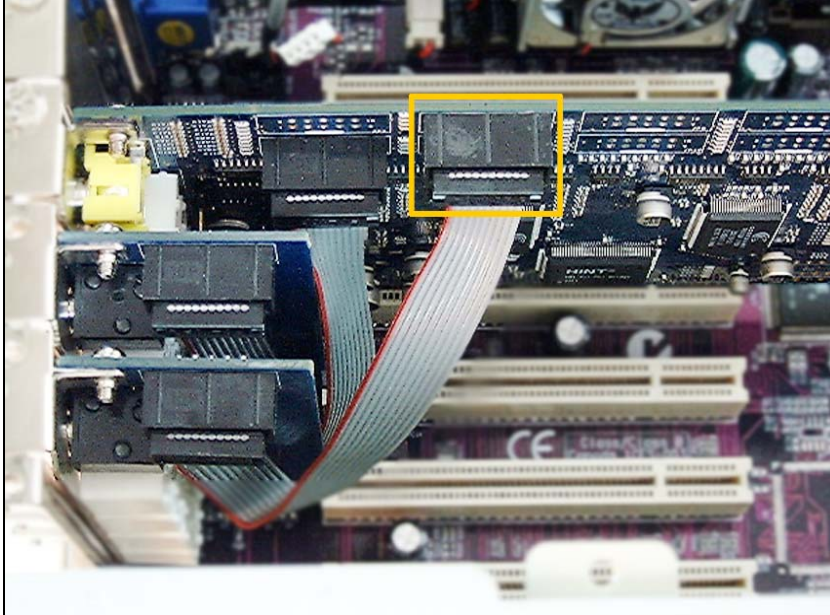
2-1-2. Extension board Installation
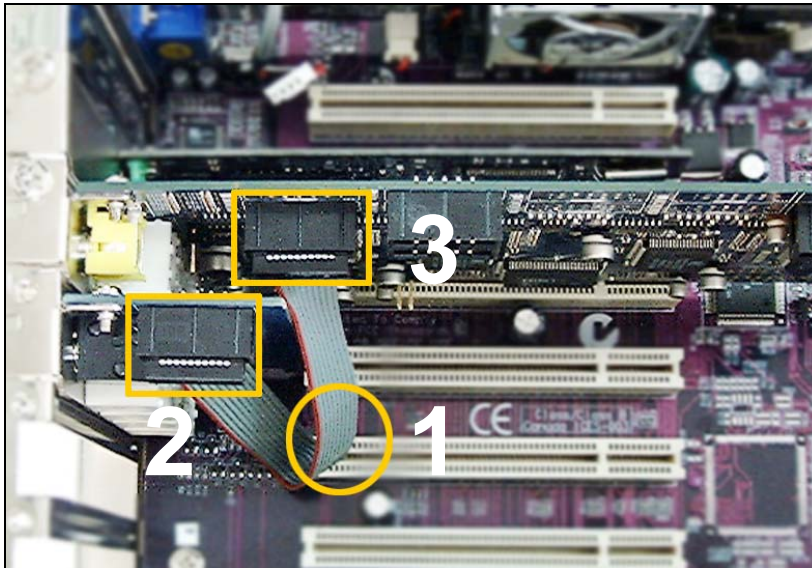
1: **Channel Cable**

2: **Parallel Connector on channel board**

3: **5~8ch Parallel Connector on DVR board.**

- Next page -

7. Connect channel board to '9~12ch parallel connector on DVR board' and insert the
channel into the PCI slot.

1: 9~12ch parallel connector on DVR board

8. Connect channel board to '13~16ch parallel connector on DVR board' and insert the
channel into the PCI slot.
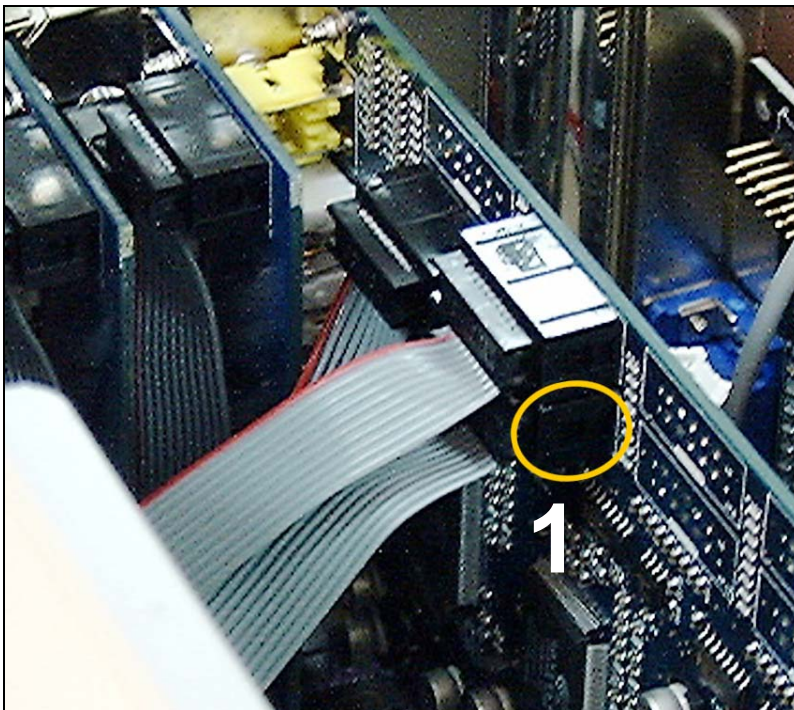
2-1-3. PTZ installation

1: 13~16ch parallel connector on DVR

1. Insert the plug of PTC cable into the PC case through proper hole.
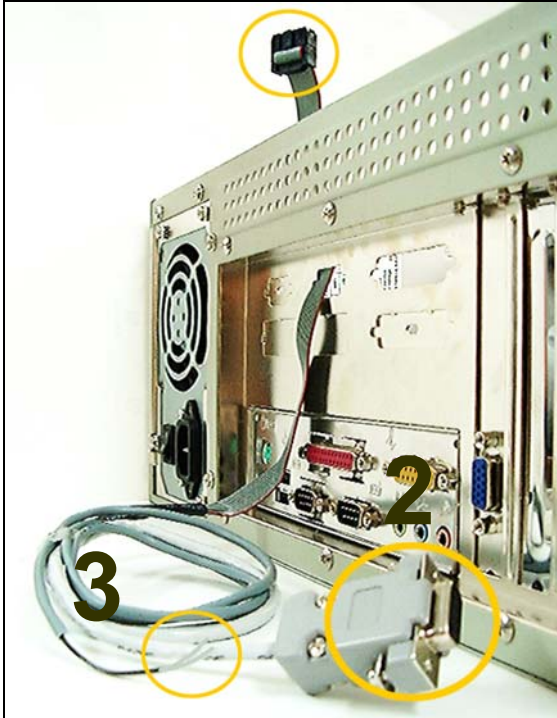
① Plug of PTZ cable
② 485 cable of PTZ cable
③ Serial Port of PTZ cable

2. Insert the plug of PTC cable into the 'PTZ parallel connector on DVR board'.

   Position of 'PTZ parallel connector' might be different up to DVR model. Please refer to '2.1

   DVR board drawing' for parallel connector position.
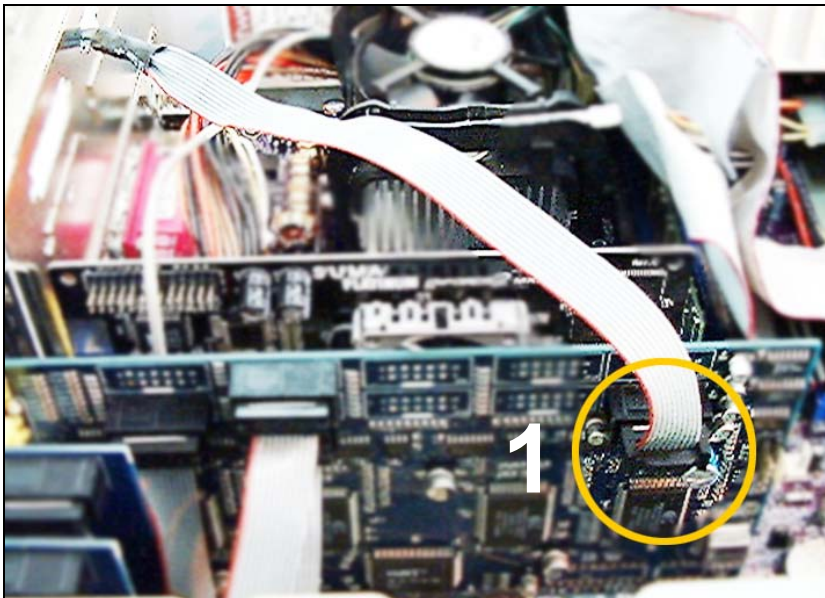
1: PTZ parallel connector on DVR board

3. Locate the empty serial comport on rear side of PC.
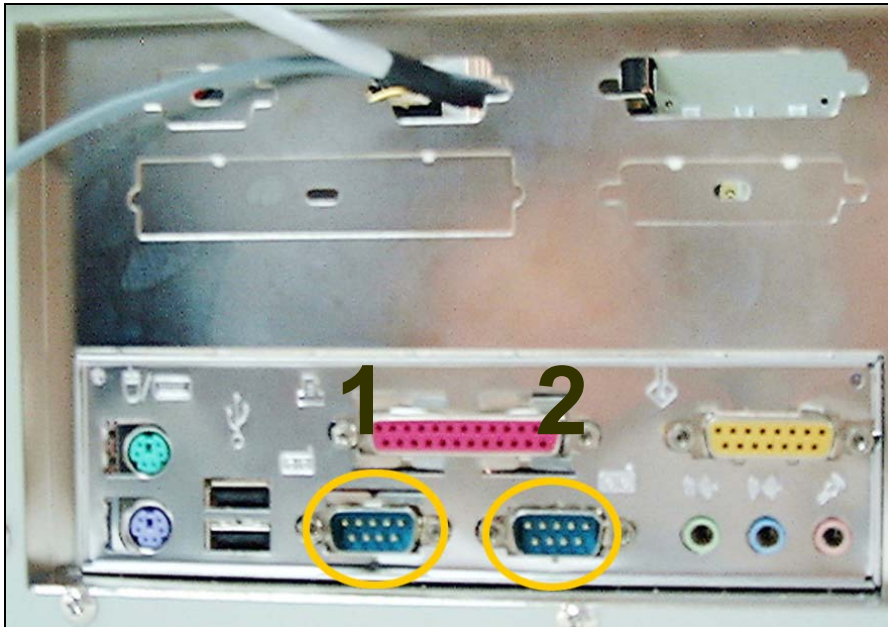
1: Serial Comport 1 or 3
2: Serial Comport 2 or 4

4. Insert the serial port of PTZ cable into empty serial port of PC.
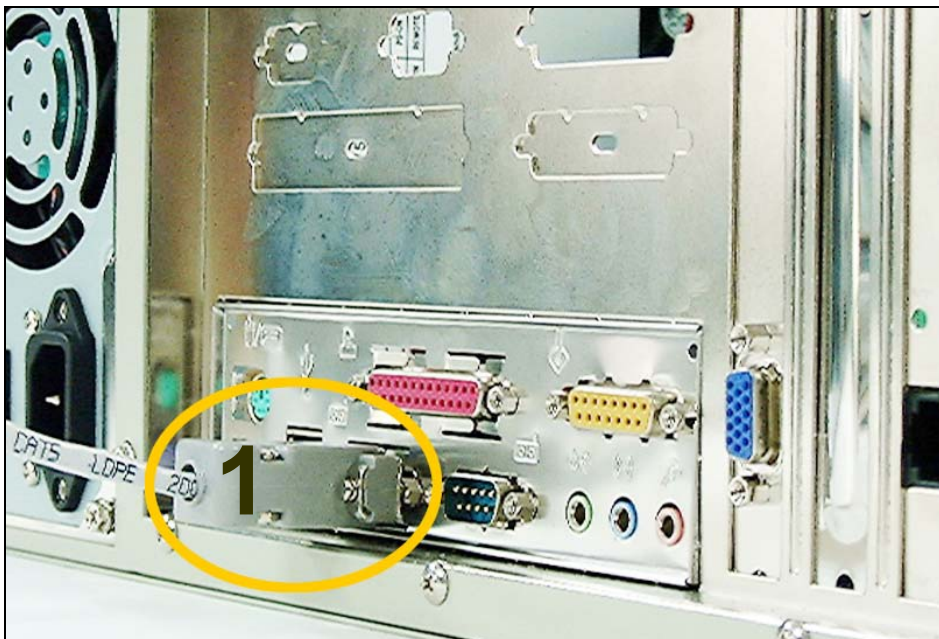
1: Serial port of PTZ cable

5. Connect 485+ cable of PTZ cable with 485+ cable of PTZ camera and 485- cable of PTZ cable with 485- cable of PTZ camera. And, insulate them with insulating tape.
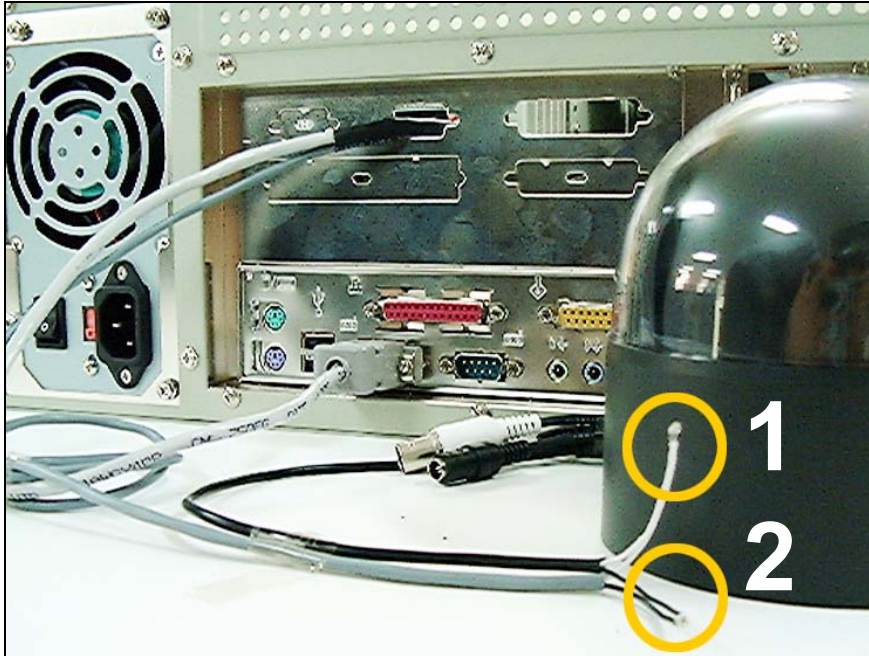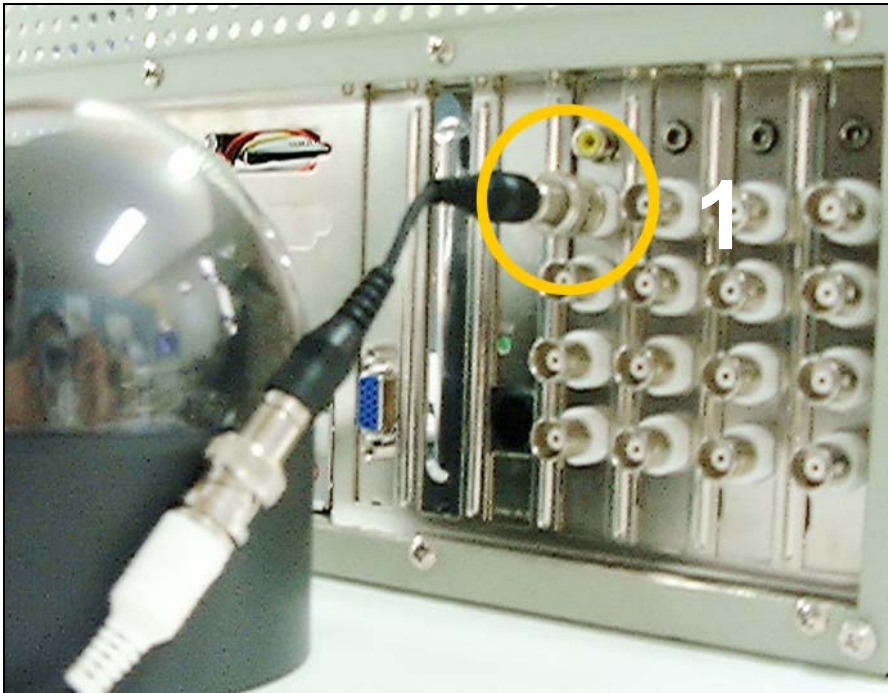

1 : **485+ cable connection**
2 : **485- cable connection**

6. Connect video signal cable of PTZ camera with BNC jack on DVR.
7. Address of PTZ camera should be identical to DVR channel. In the Fig 4.11, the address of PTZ camera should be set as '1', because camera is connected to No.1 channel.

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1: BNC Jack of Channel

8. Connect the adaptor with PTZ camera.

2-1-4. Audio installation

1. Insert MIC to sound card OR DVR board.

<The following description is of 1CH Audio example.>

MIC is inserted to PC Mainboard. (Standard color red hole)
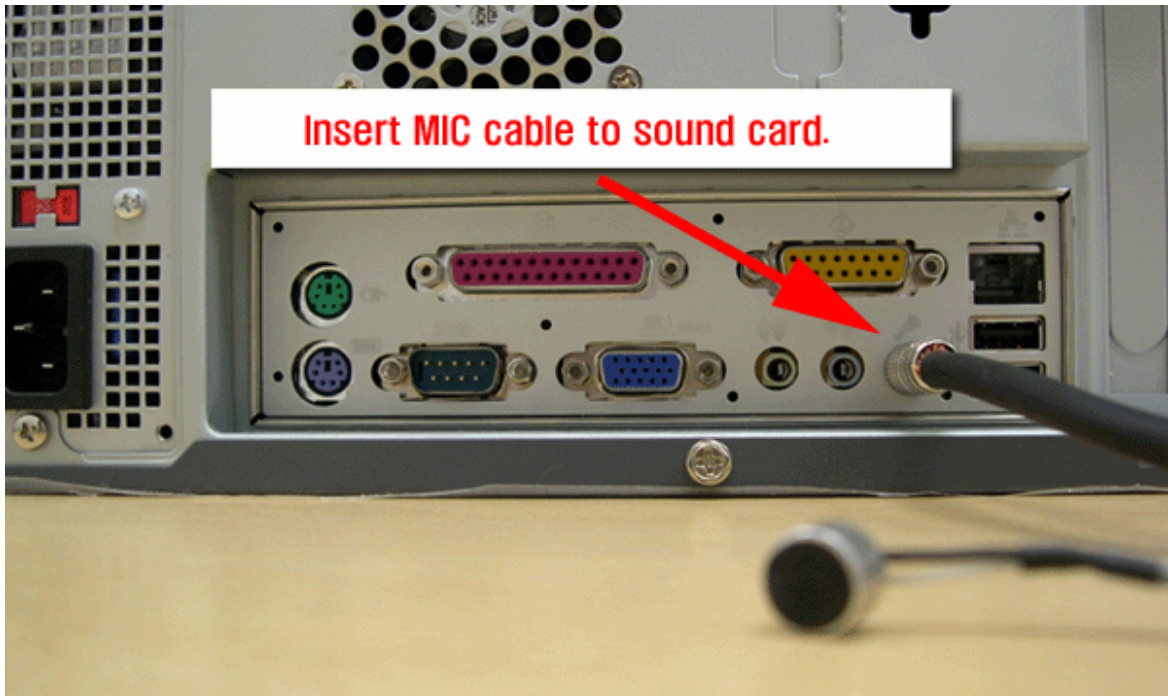
OR Insert MIC to DVR Board.
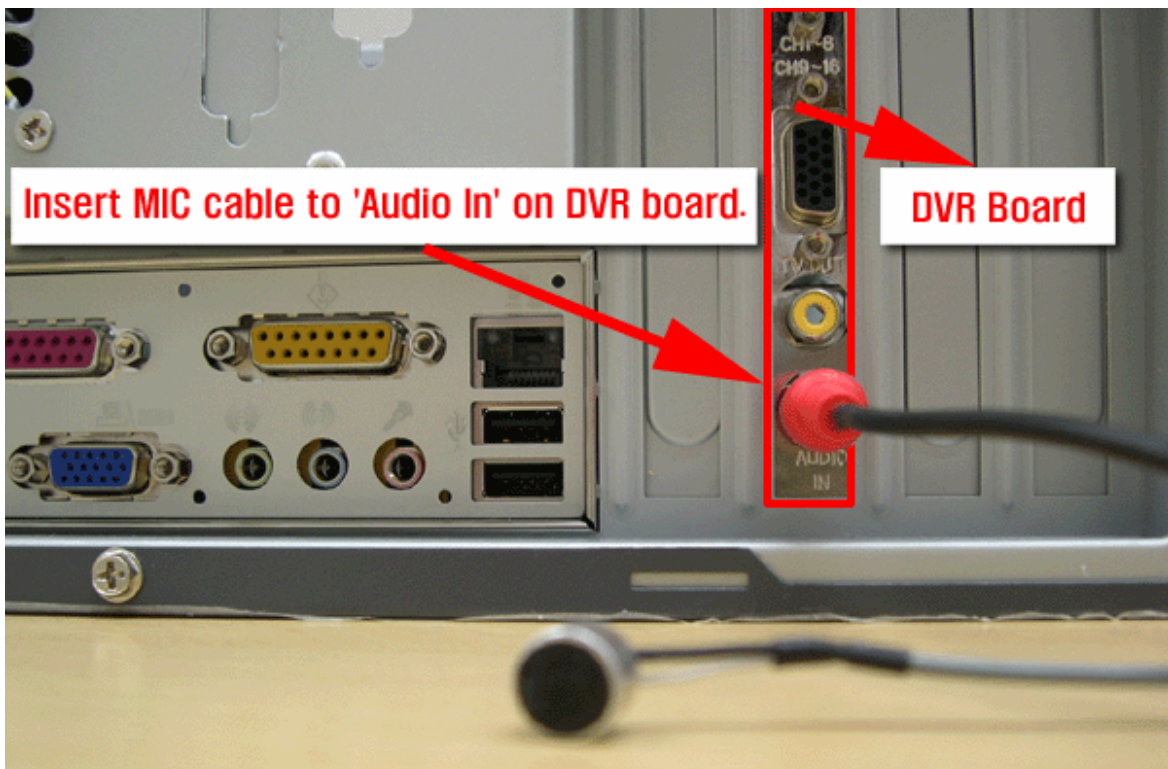
2. Insert Speaker to Sound Card of motherboard. (standard Green color hole)

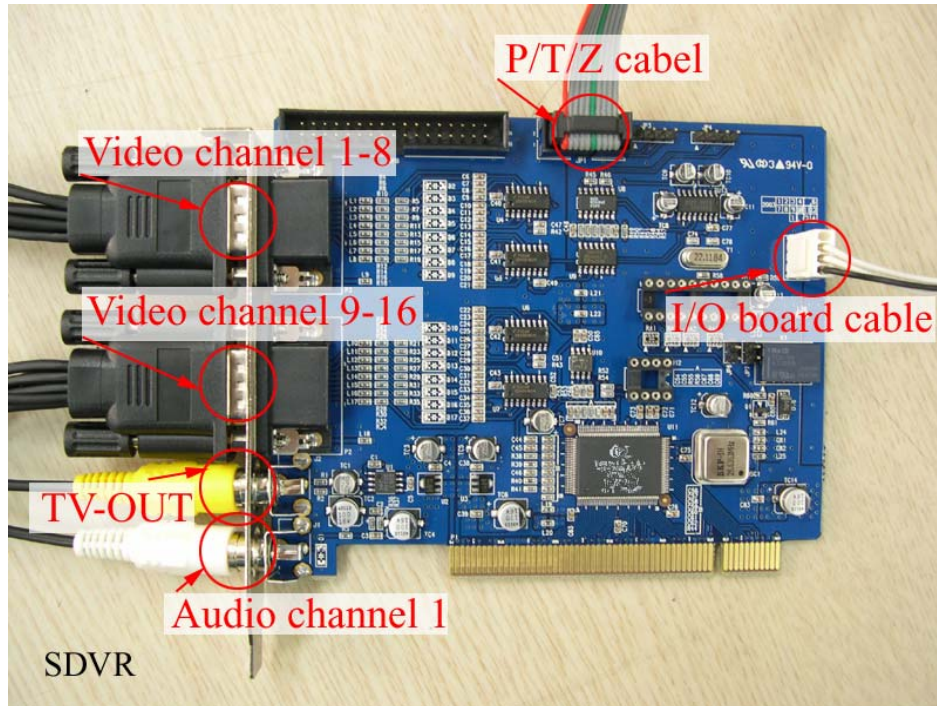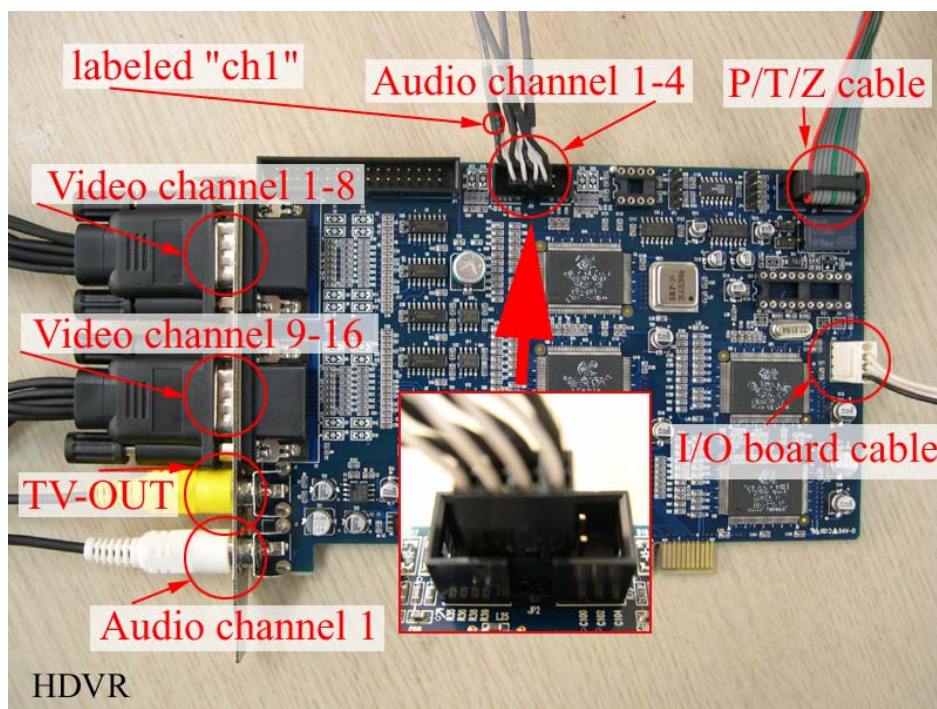Insert speaker cable to mainboard.
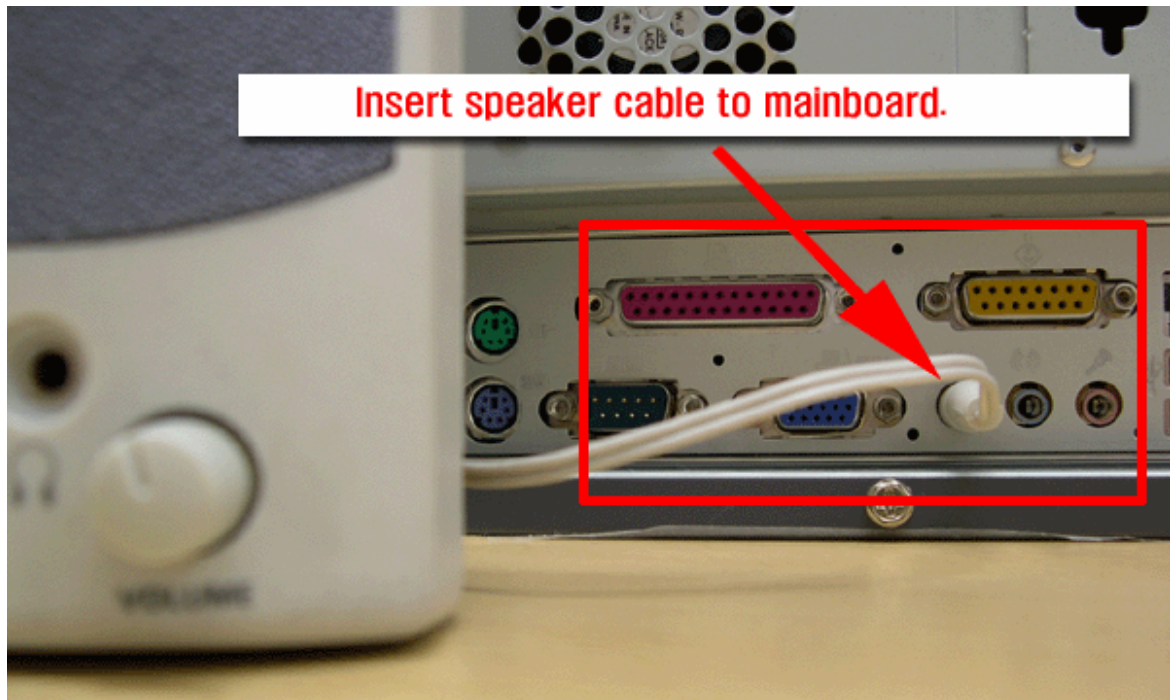
2-1-5. Board Connection

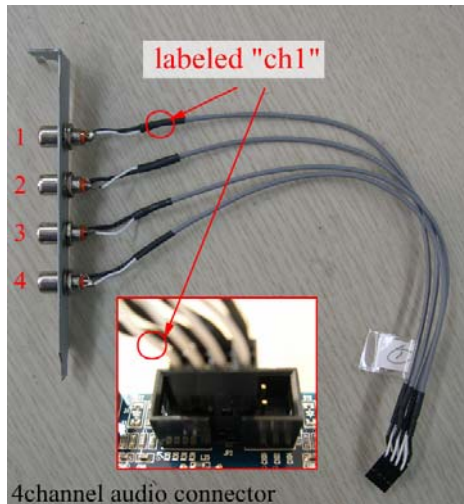1. Please notify board connection differs according to DVR Board.

- SDVR Board

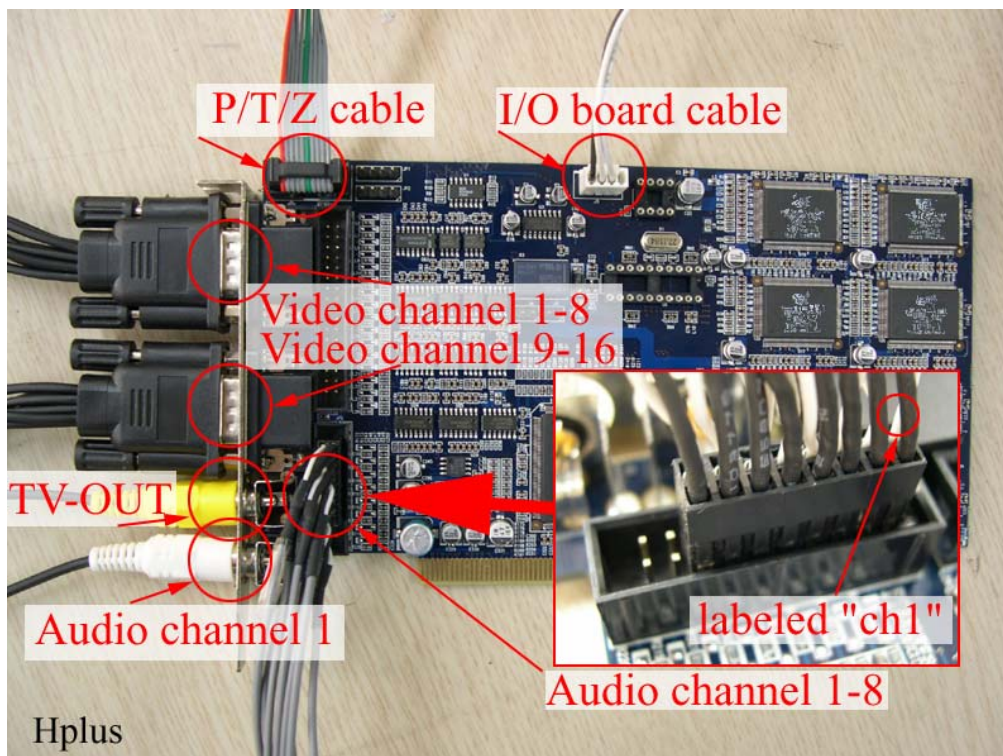**- HDVR Board**

Please notify HDVR Board requires additional Audio Connector to support 5CH Audio. (Sound Card 1CH + DVR Board 4CH)
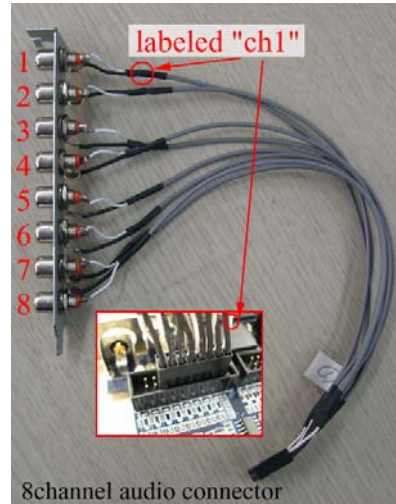
- The picture on the left is 4CH audio connector. The picture on the right is 8CH audio connector. (used with HPLUS Board.)
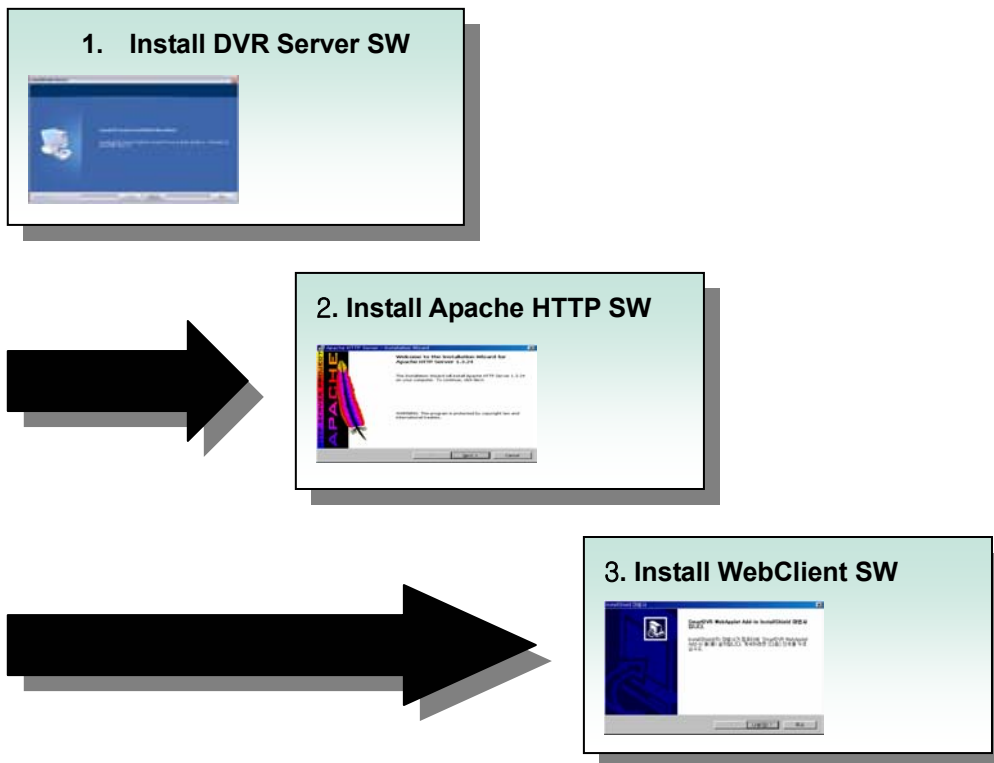
- HPLUS Board

2-2 DVR Server Software Installation

Select one application to install at a time

2-2-1. Preview Installation Procedure

1. Install DVR Server SW

2. Install Apache HTTP SW

3. Install WebClient SW

Attention: If an older version of SW has been already installed on your computer, you should uninstall the older version first.

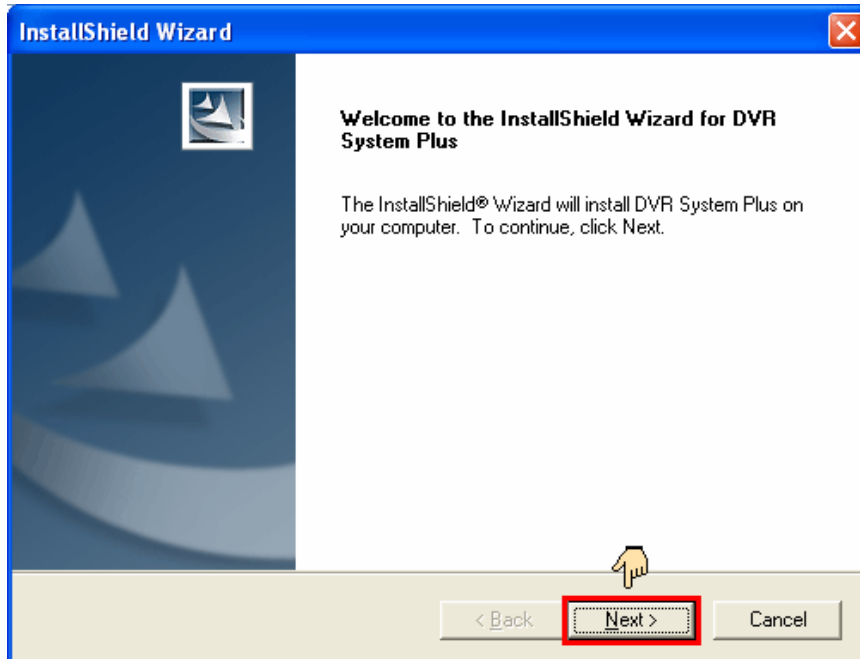## 2-2-2. Install DVR Server Software (Important)

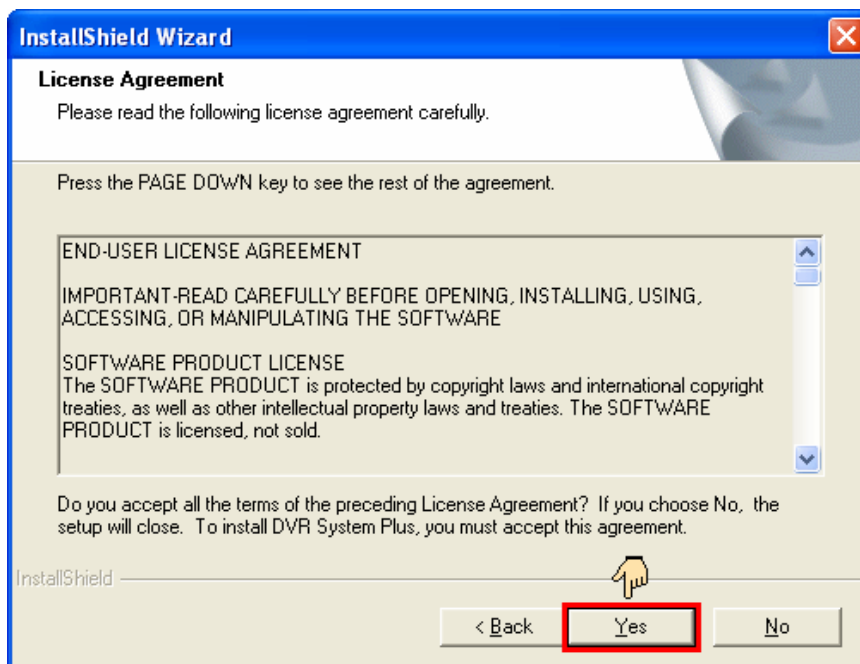| Installation Procedure	1. Install DVR Server SW
	2. Install Apache HTTP SW
	3. Install WebClient SW

Run the Setup.exe (　) file.

InstallShield Wizard

Welcome to the InstallShield Wizard for DVR System Plus

The InstallShield® Wizard will install DVR System Plus on your computer. To continue, click Next.

< Back   **Next >**   Cancel

1. Install Shield Wizard is executed. Press the [Next] button

InstallShield Wizard

License Agreement
Please read the following license agreement carefully.

Press the PAGE DOWN key to see the rest of the agreement.

END-USER LICENSE AGREEMENT

IMPORTANT-READ CAREFULLY BEFORE OPENING, INSTALLING, USING, ACCESSING, OR MANIPULATING THE SOFTWARE

SOFTWARE PRODUCT LICENSE
The SOFTWARE PRODUCT is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The SOFTWARE PRODUCT is licensed, not sold.

Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install DVR System Plus, you must accept this agreement.

InstallShield

< Back   **Yes**   No

2. If you accept all the terms of the License Agreement, Press the [Yes] button

InstallShield Wizard

Choose Destination Location
Select folder where Setup will install files.

Setup will install DVR System Plus in the following folder.

To install to this folder, click Next. To install to a different folder, click Browse and select another folder.

Destination Folder

D:\Program Files\DVRS\   Browse...

InstallShield

< Back   Next >   Cancel
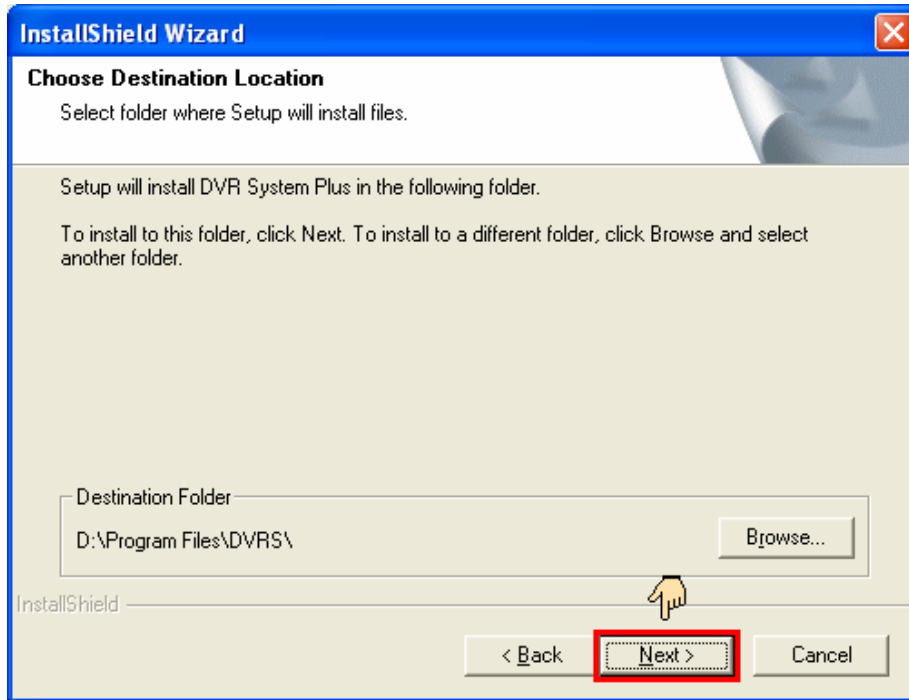
3. Select the folder of destination and Press the [Next] button.

InstallShield Wizard

InstallShield Wizard Complete

Setup has finished installing DVR System Plus on your computer.

< Back   Finish   Cancel
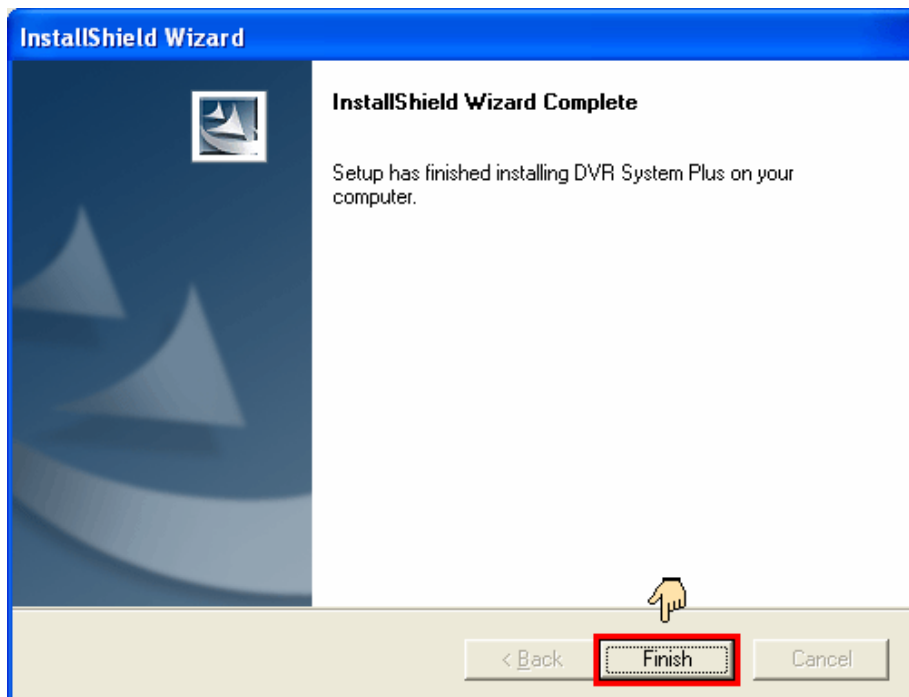
4. Press the [Finish] button to complete installation.

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5. Press the Install button to run Driver Auto installer for Win 2000/XP.

DVR System is being installed...
Board Type : HDVR
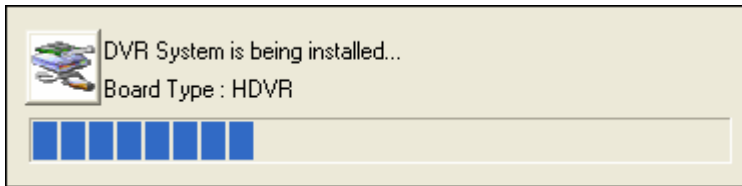
6. Press the [Yes] button to complete Auto Driver Installation

Question

Reboot required for correct working.
Do you want to reboot your system now?

Yes   No
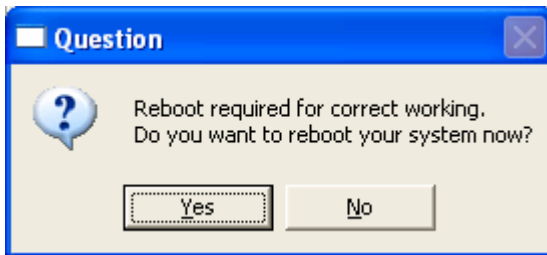
Reboot system for stable operation

2-2-3. Apache Web Server Installation

1. Run Apache Web Server[🖥️] program.

2. The screen will display as following: Click [Next] button.
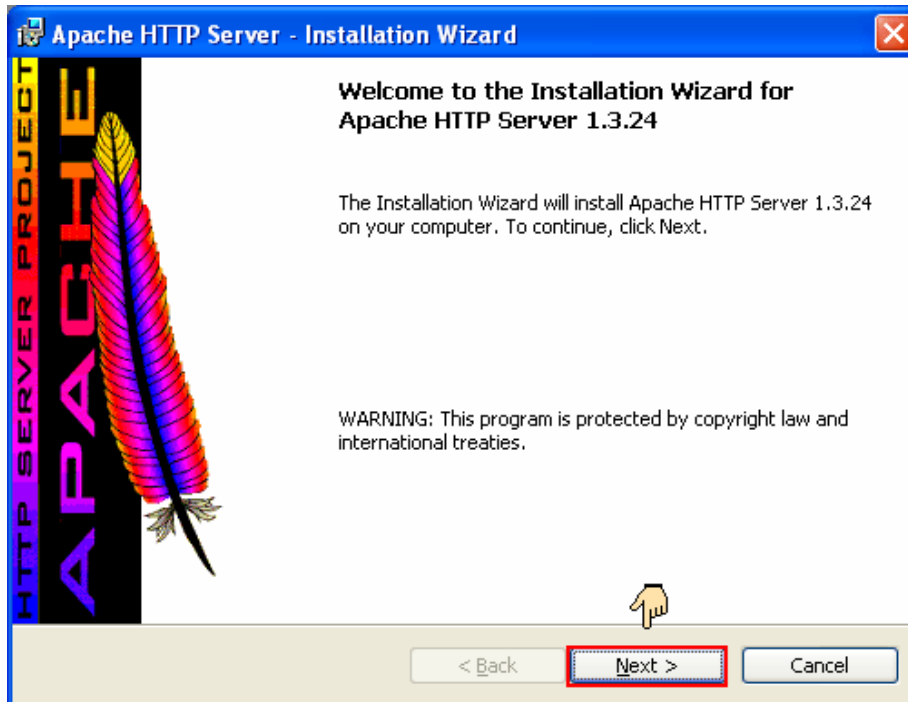
3. Read the license agreement. If you agree click [I accept…] and click [Next] button.
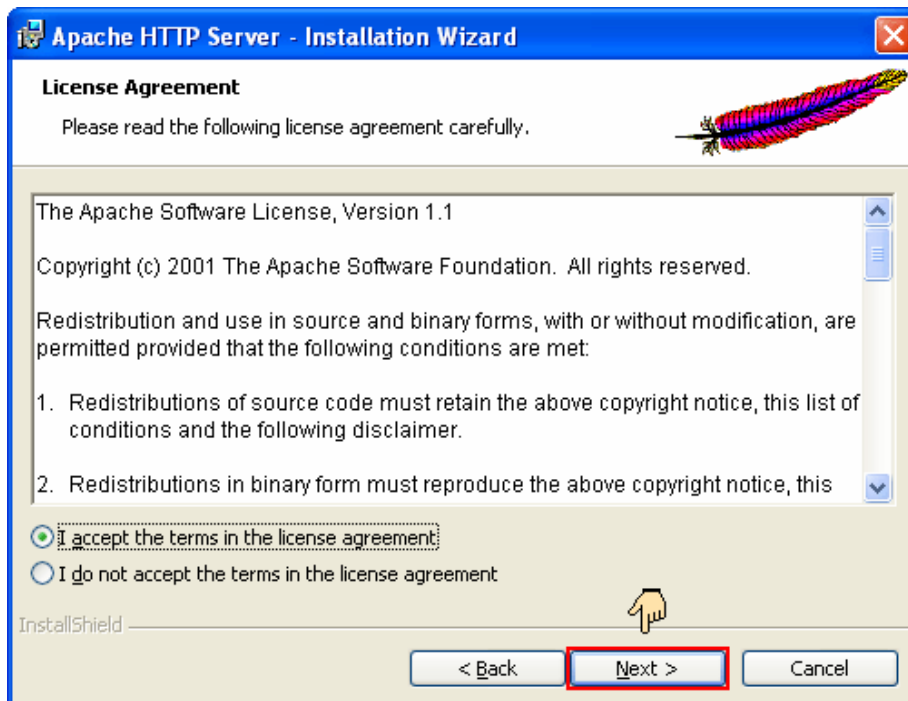
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4. Confirm Apache Server information and click [Next] button.
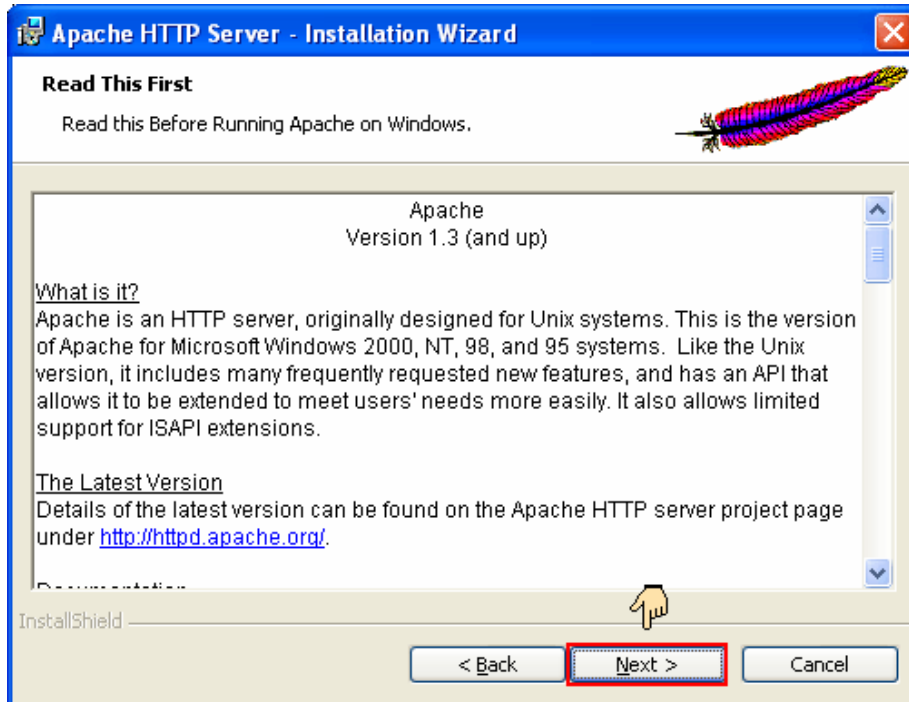
5. Insert Network Domain, Server Name, Administrator's Email Address.

(For formality purpose only. Insert any address.)

Select [Run as a service for All Users – Recommended]. Click [Next] button.
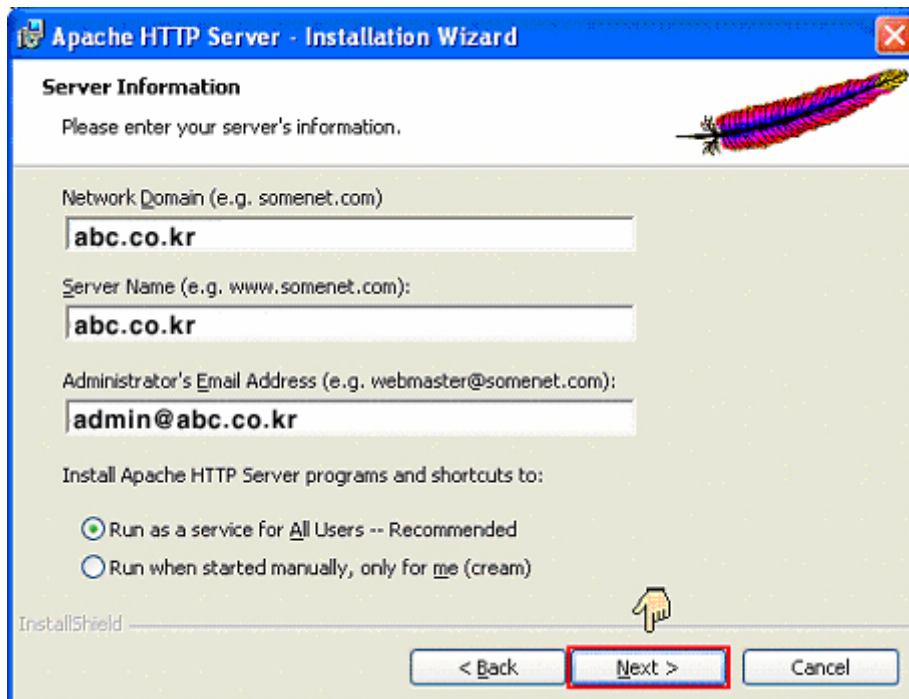
6.Select [Complete] for Setup Type. Click [Next] button.
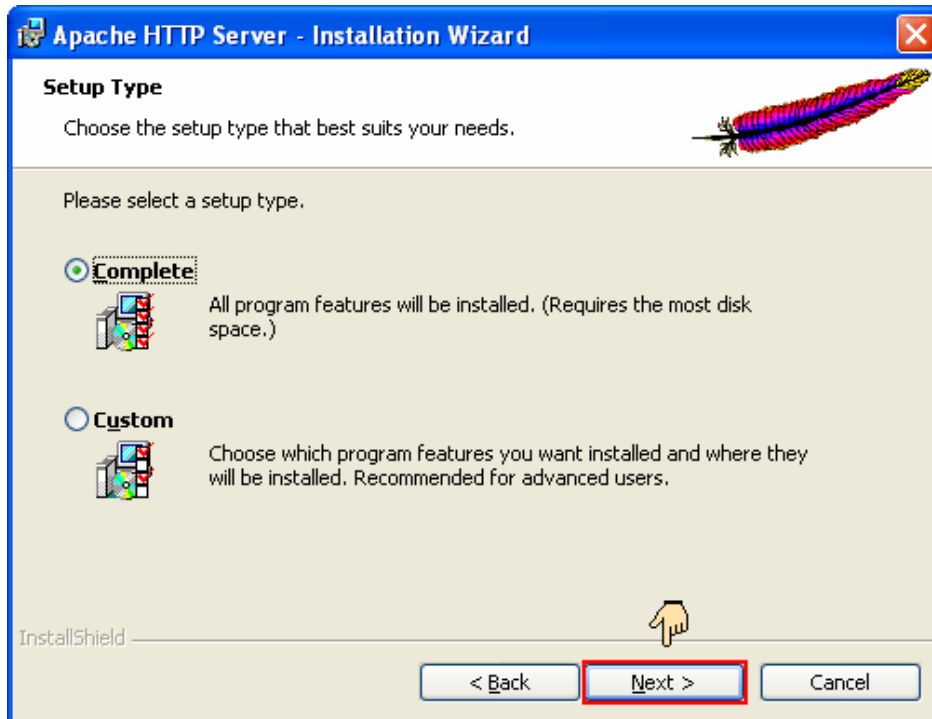
7. Click [Next] button. **Attention: Do not change directory.**
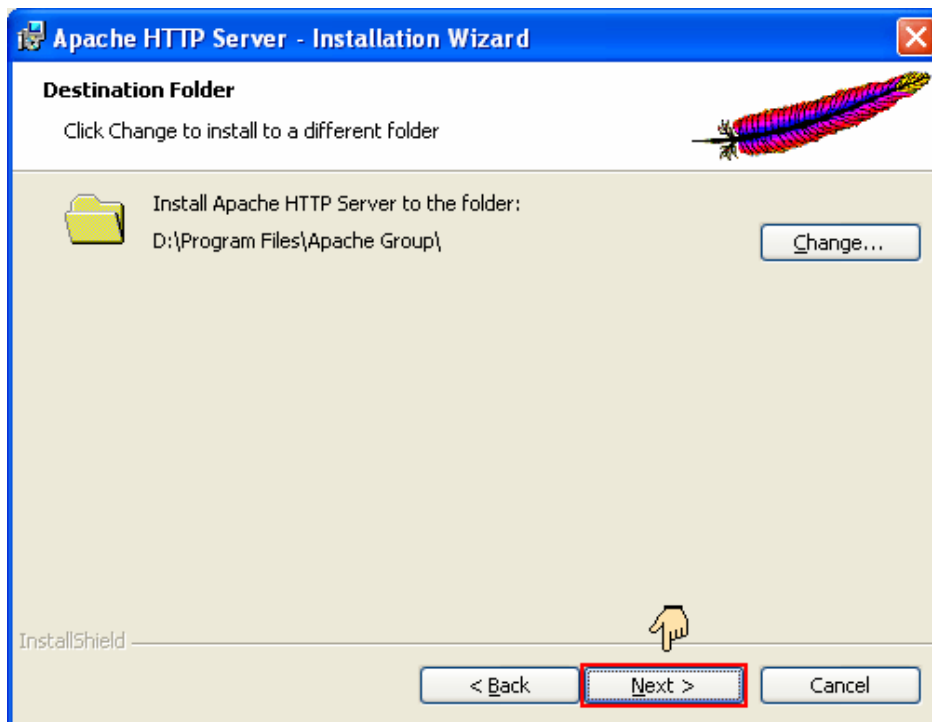
DVR Server v2.0

8. Click [Install] button and start installation.
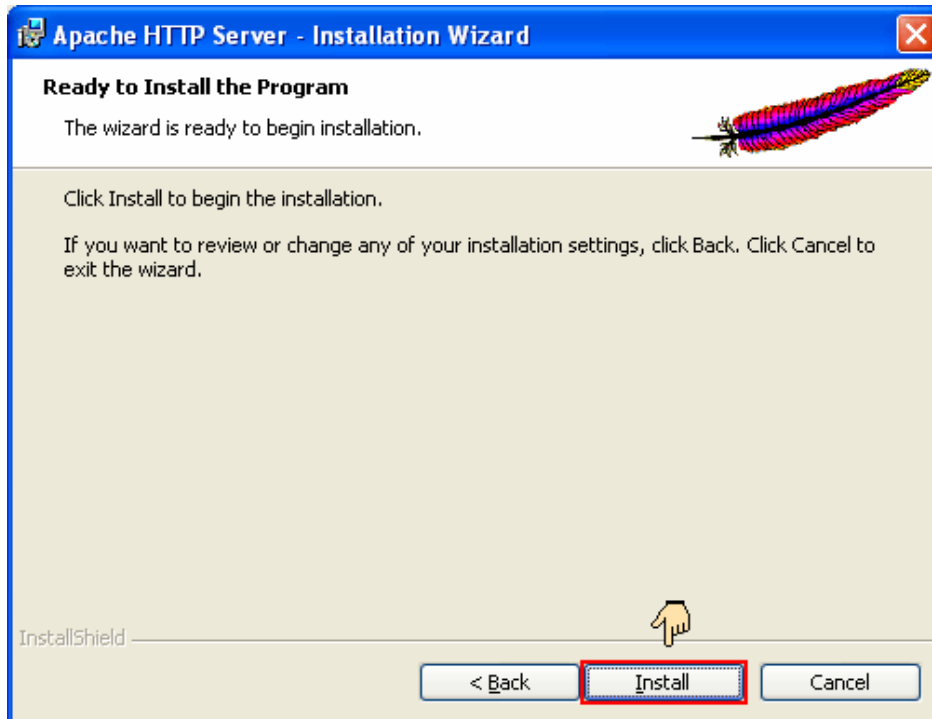
9. Click [Finish] button when completion of installation program.
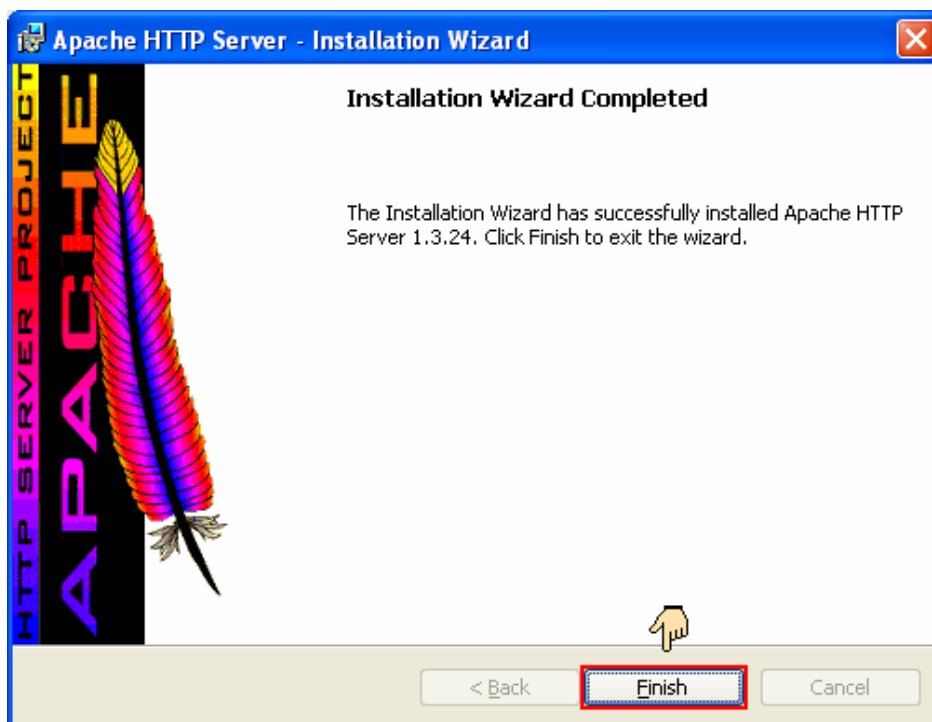
10. Change the port of Apache HTTP Server.

(Windows – Start - Program – Apache Http Server

– Select Configure Apache Server – Edit the Apache Http conf…
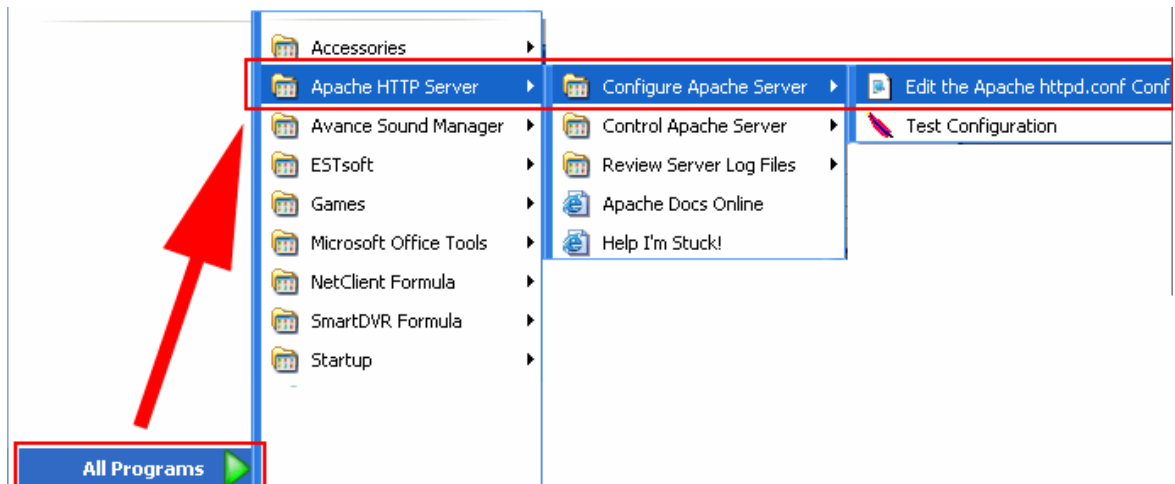
11. The screen will display as following: Select Edit – Find.
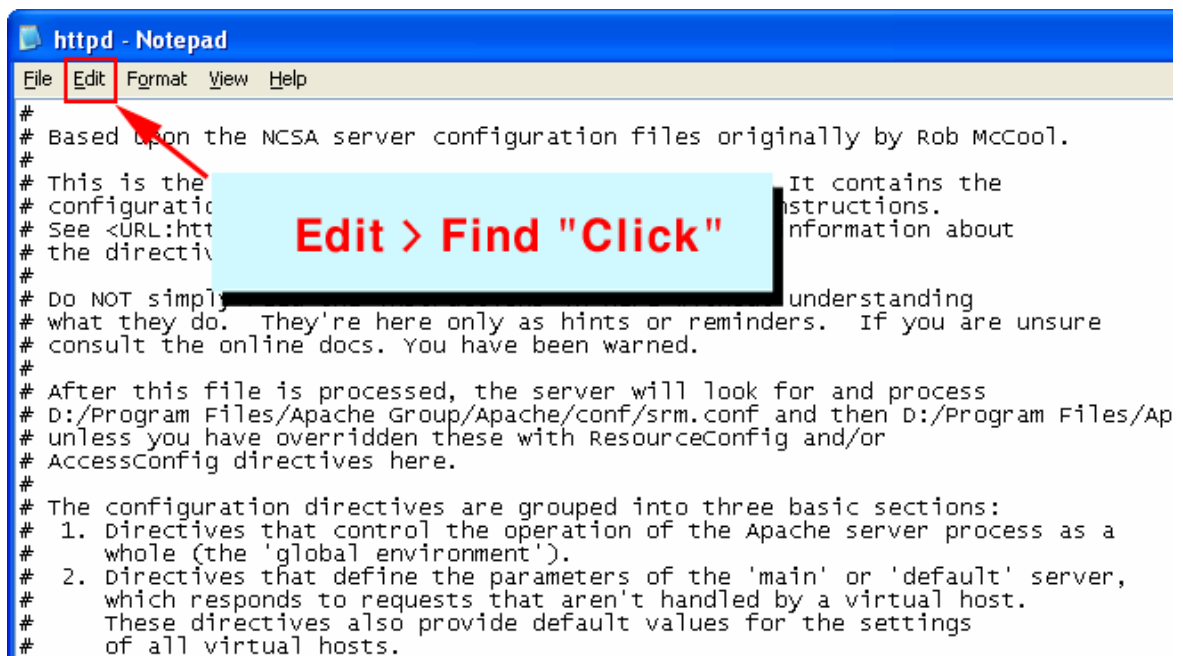
12. Insert "port 80" and press enter. Port 80 will view as following:
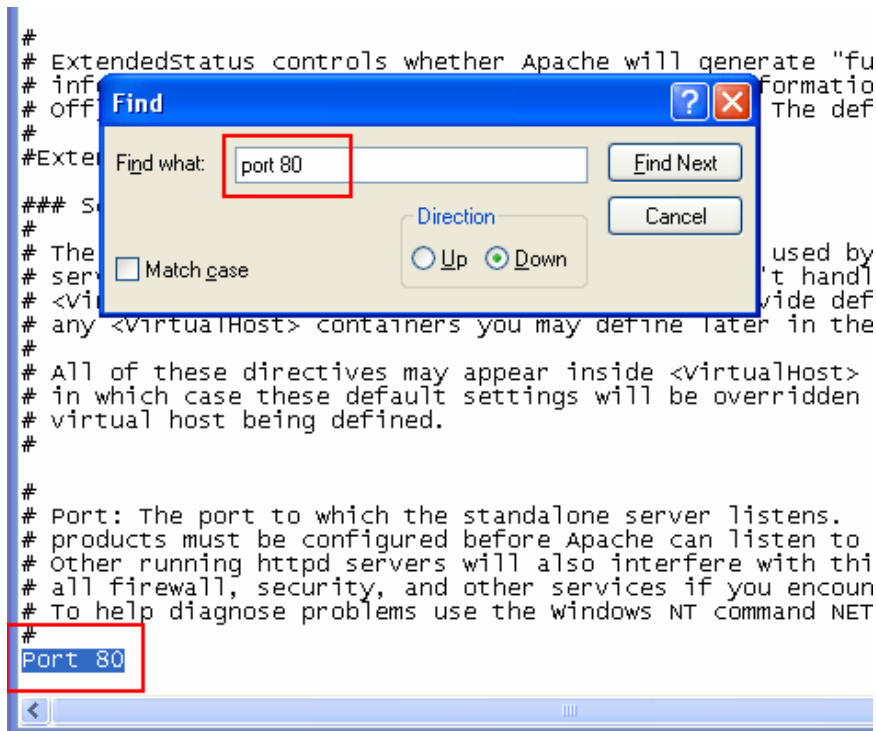
13. Change Port 80 to Port 26540 and save Notepad.
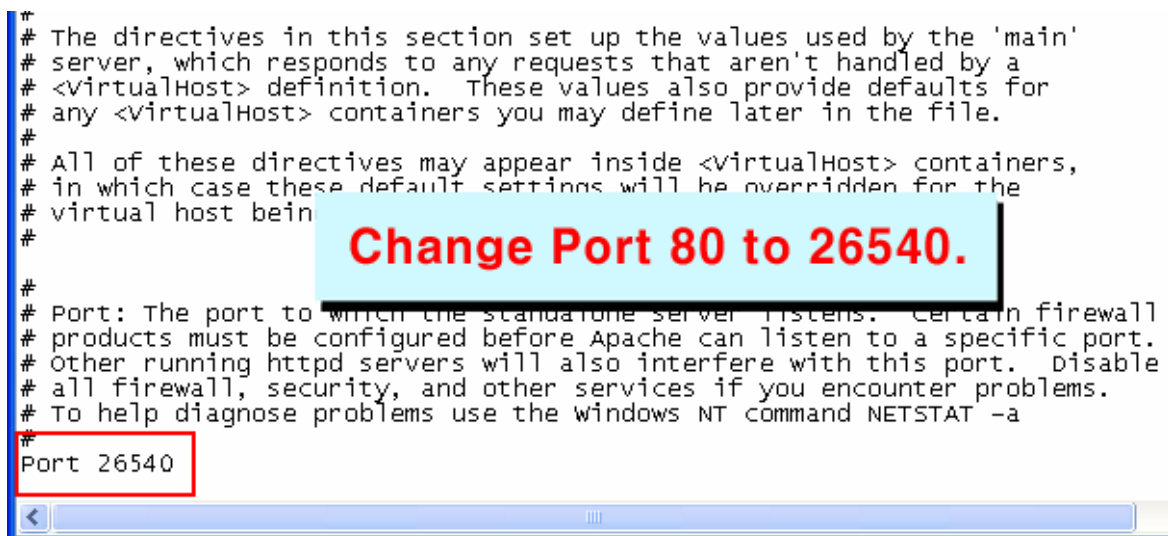
14. Exit Notepad after Save.

- **Attention: Must add port number after IP address to view in Internet Web Browser.**

- **Ex) http://211.104.32.107:26540**

2-2-4.Web Client Installation

1. Run Web Client installation file (   ).

2. The InstallShield Wizard will display as following: Click [Next] button.
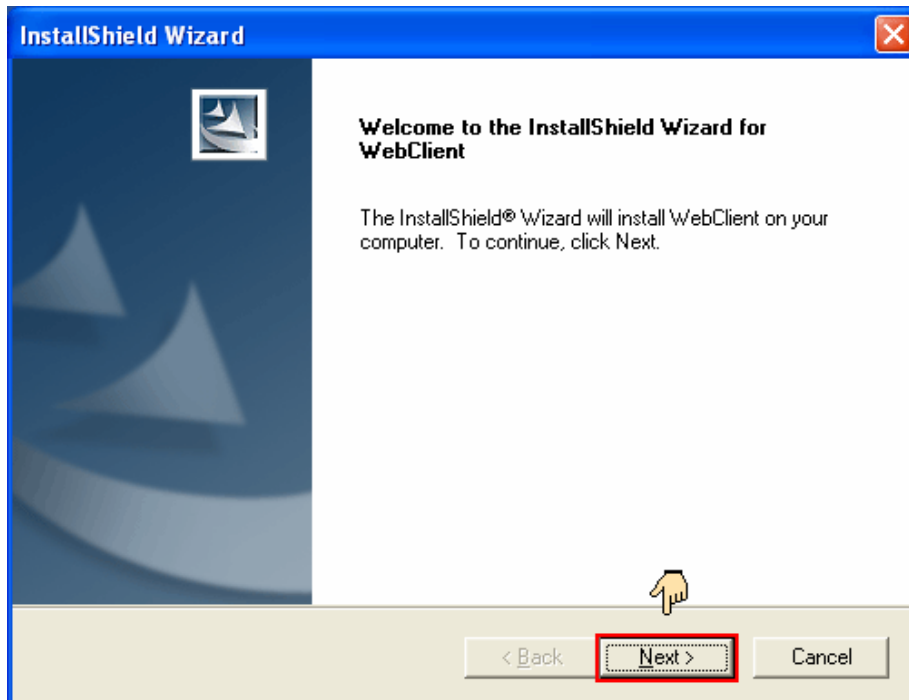
3. Read License Agreement carefully. When accept of agreement click [Yes] button.
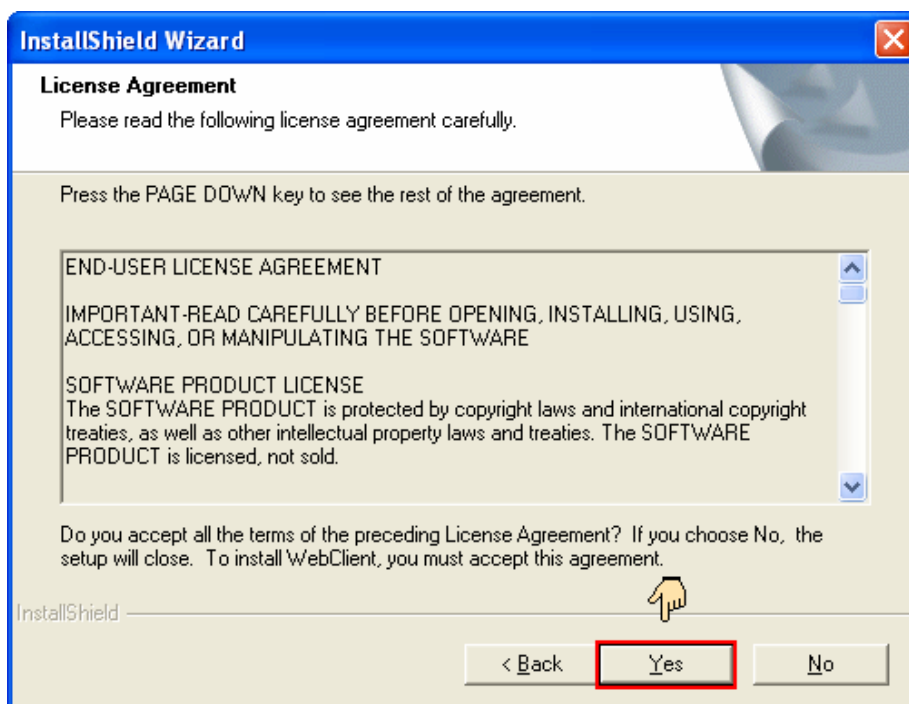
4. Click [Finish] after completion of installation.
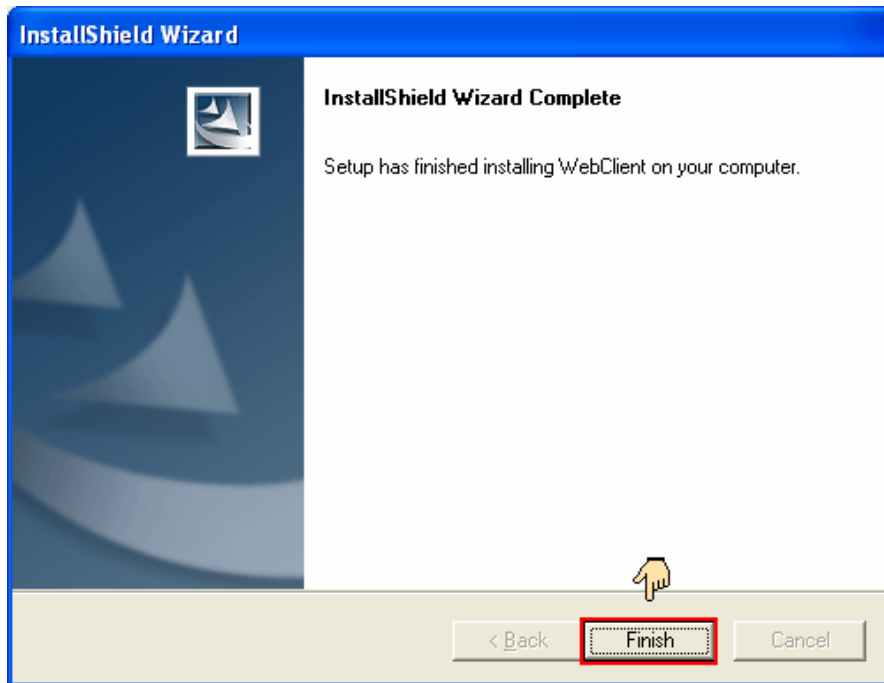
2-2-4. Uninstall DVR Server program

1. Under the Start menu in Windows, go to Setting and then to Control Panel

2. Double click the Add or Remove Programs

3. Select DVR System Plus and Click on Change/Remove button.
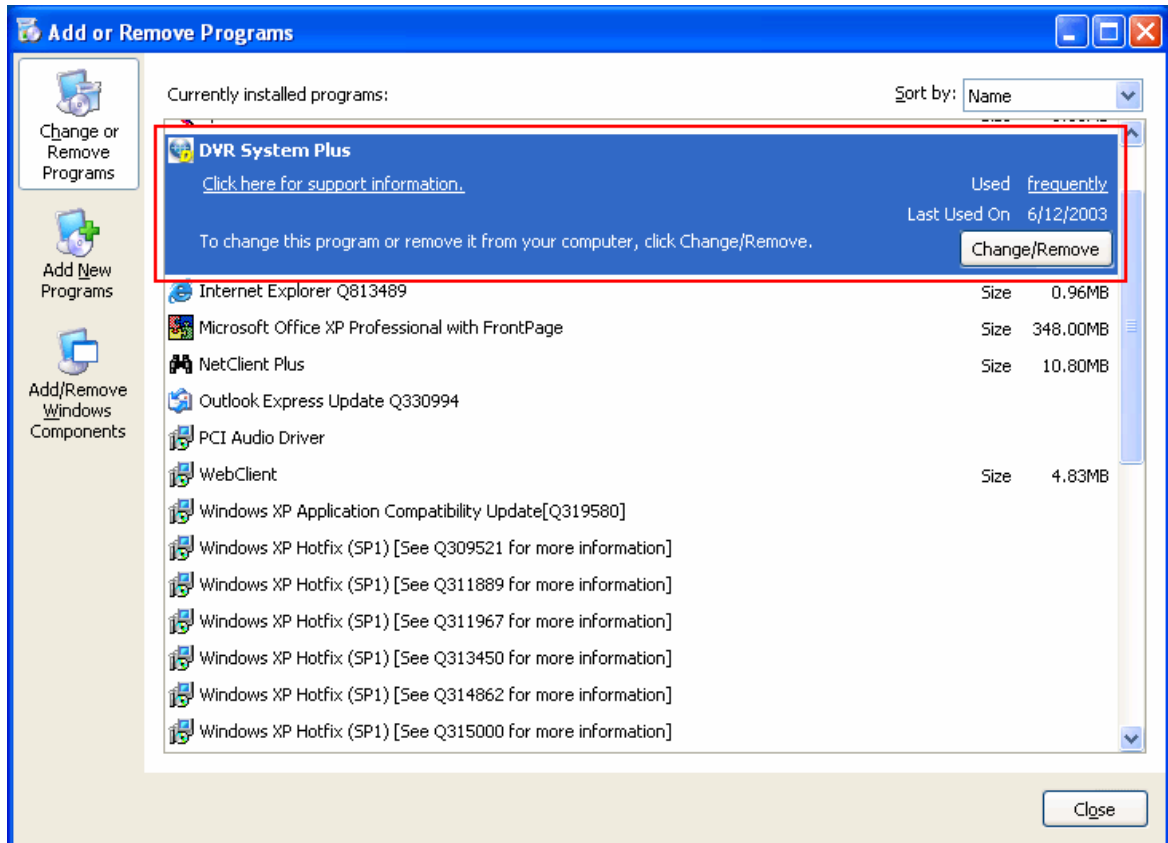
3. Click Remove button and Press the [Next] button.

4. Press the Finish button to complete uninstalling DVR program.

※ The uninstall program will delete all DVR system files on your hard disk. However, it does not delete the video images and the log files already saved in the hard drive of your DVR PC.

Chapter 3   User Manual for DVR Server v2.0

Monitoring Screen (Main View) Mode

Search Screen Mode

DVR Server v2.0
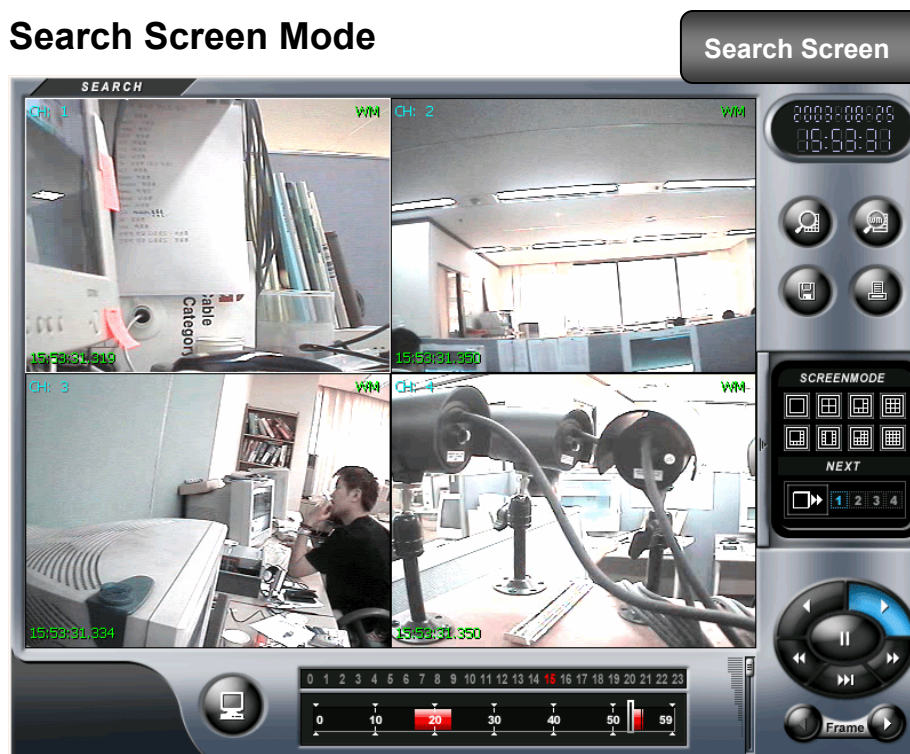
3-1 Main features and functions

1. Operating System (O/S)

   DVR system uses Windows 2000/XP as a basic OS and is designed to operate all needed

   functions of DVR System properly.

2. Main Program

   The main program operates Search, Backup, Recording, and every function to control DVR

   System and it has the following functions and features

   1) Easy to search

      According to date, time, and camera, the user is able to execute instant, speedy, conditional,

      and magnified searched video images.

   2) Backup & Print function

      Able to print out searched images and provides Backup function

   3) Switcher (Auto –Selector) function

   4) Split-screen display Function

      The user is able to select the following screen division: 1, 4, 6, 8, 9, 10, 13, 16, and full screen

   5) Recording speed adjustment function

      The user is able to adjust recording rate

   6) Recording image quality setup function for each CH

      Able to manage HDD space efficiently by adjusting recording image quality for each channel

   7) Motion Detection Function (MD)

      The user is able to setup motion area, and record the image when the motion image is

      detected in the area.

      (Motion-driven recording)

   8) PAN/TILT/ZOOM Control Function

      P/T/Z built in the system (Requirement of Receiver Device)

   9) Alarm connection with Camera & Sensor

      Connect with emergency bell and alarm while MD & Sensor are operating

10) Watch Dog

When system function does not operate properly or in case of emergency shutdown, watchdog

function enables auto-rebooting/restoration of existing data

11) WaterMark

A copyright-protection of embedding a code into a digital audio or video file to attempt to

prevent image tampering

12) Image Transmission

Image transmission to remote site by using PSTN network

(Able to monitor remote sites from Web Browser OR NetClient program)

13) Resolutions

Support 320×240 pixels, 640x480 pixels

14) Schedule

Schedule setup by date/time

(recording by time, MD schedule recording, sensor schedule recording)

15) Sensor Input, Digital-Output via alarm

16) Basic ID/Password function

3-2 Access Prevention

TIP>

Q : "Cannot access" message is on the screen.

A : DVR is set to lock on mode.

<How to unlock DVR server>

1. Click configuration button.

2. Insert ID and PW.

< Default   ID = admin   PW = admin >

3-3 Monitoring Screen Mode
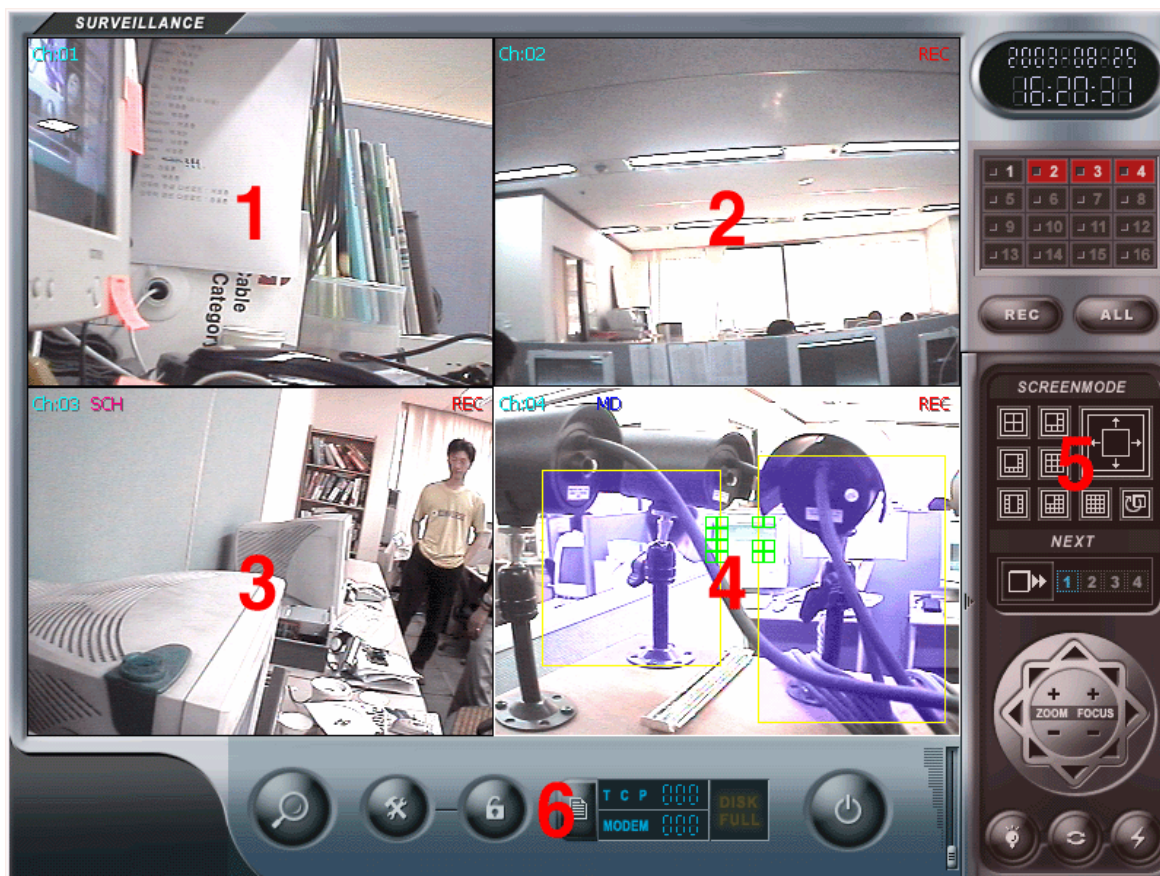
1 : Standard Display Screen

2 : 1CH recording screen (represented by REC)

3 : Schedule Motion Detection Recording Screen (represented by SCH MD)

4 : Motion Detection Store Screen (represented by MD)

5, 6 : Please refer to full description as below

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5 Full Description (Part A)

Present Date/Time	

Operating CH Display Icon :

Un operating CH Display Icon :

Recording CH Display Icon :

REC : Recording

ALL : Select all

SCREENMODE

NEXT

	4 CH Split-Screen Mode		6 CH Split-Screen Mode
	8 CH Split-Screen Mode		9 CH Split-Screen Mode
	10 CH Split-Screen Mode		13 CH Split-Screen Mode
	16 CH Split Screen Mode		
	Auto-Switching Mode Automatically switch to next screen through periodic time		
	Full Screen Display Mode		

	Light On/Off
	Auto Pan
	P/T/Z Power

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6 : Full Description (Part B)
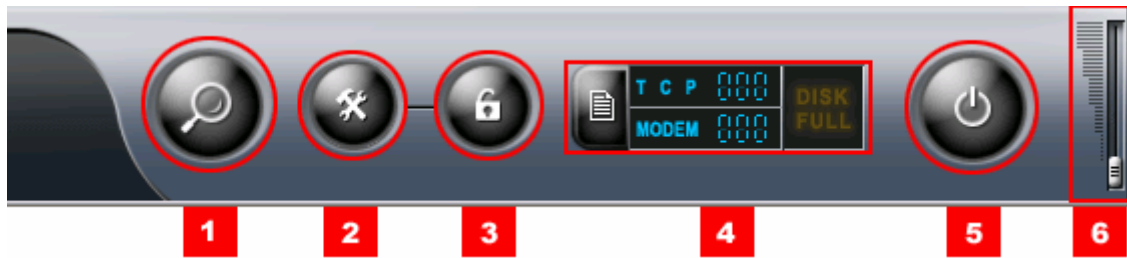
1 : Search Mode

2 : Configuration button

3 : Lock button

4 : Check Log record

      Indicate item under LAN / MODEM connection

              LAN: support simultaneous connection up to max. 100 users

              MODEM: support one user

5 : DVR Power (On / Off)
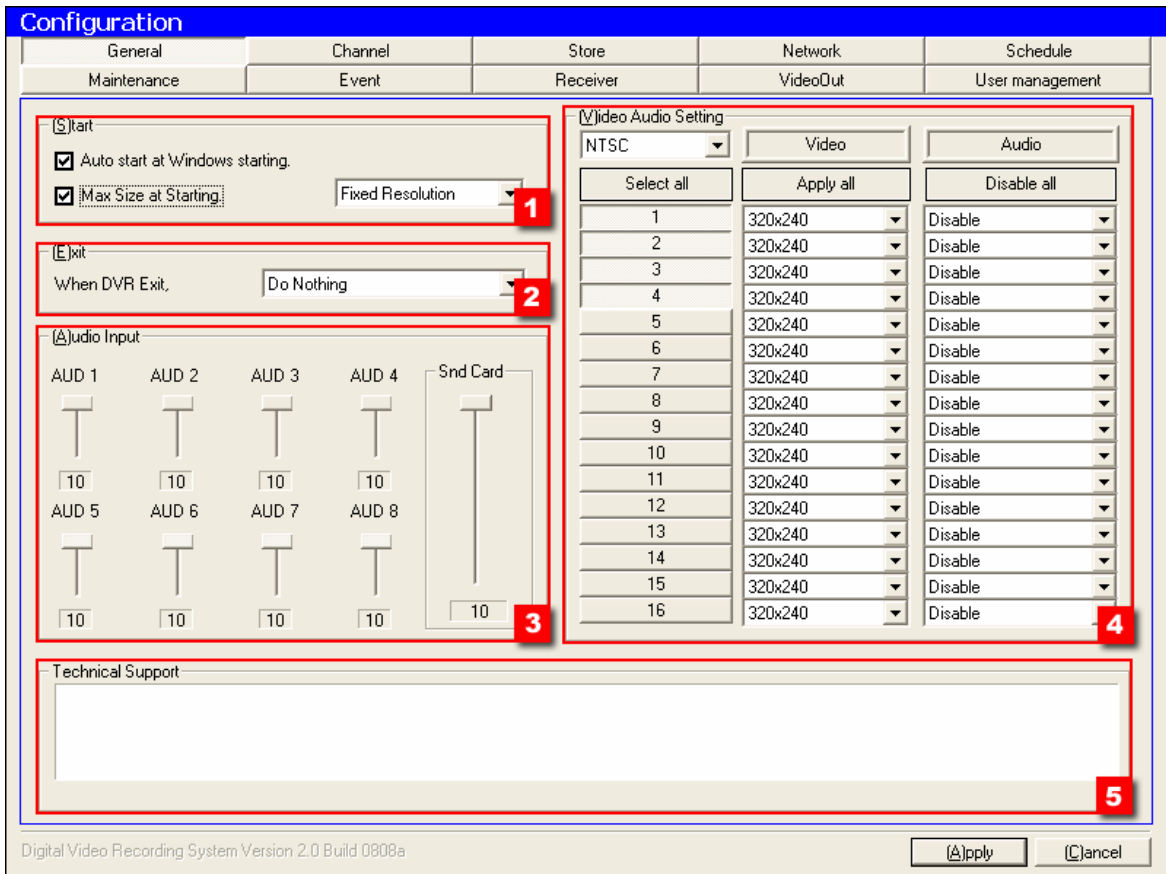
6 : Audio Volume Control.

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Double Click on configuration (🔍) icon in Main View Screen

1) General

1. Start Windows

☑ Auto start at Windows starting.   : Automatically execute program when start of Windows

☑ Max Size at Starting.   : Execute Full Screen Size when run DVR program

2. Exit DVR program
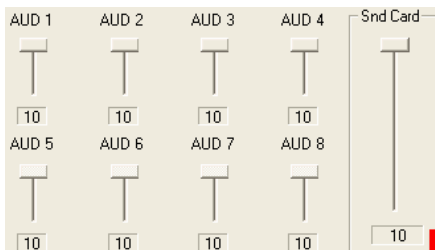
Do Nothing   : Only exit DVR Program

Reboot System   : Restart Windows when exit DVR program

Shutdown System   : Shutdown Windows when exit DVR program

3. Audio volume control

: Audio volume setting

: Setup volume for AUD 1 ~ AUD8

: Snd Card = Setup Sound Card volume.

4. Camera and audio configuration

NTSC **1** ▼	**3** Video	**4** Audio
2 Select all	Apply all	Disable all
1	320x240 ▼	Disable ▼
2	320x240 ▼	Disable ▼
3	320x240 ▼	Disable ▼
4	320x240 ▼	Disable ▼
5	320x240 ▼	Disable ▼
6	320x240 ▼	Disable ▼
7	320x240 ▼	Disable ▼
8	320x240 ▼	Disable ▼
9	320x240 ▼	Disable ▼
10	320x240 ▼	Disable ▼
11	320x240 ▼	Disable ▼
12	320x240 ▼	Disable ▼
13	320x240 ▼	Disable ▼
14	320x240 ▼	Disable ▼
15	320x240 ▼	Disable ▼
16	320x240 ▼	Disable ▼

1 : Select camera type (NTSC, PAL)

2 : Select camera channel

3 : Select display resolution for each camera channel

4 : Select audio device

5 : Indicate technical support information

<TIP>

1. Video Resolution

	320x240	640x480
SDVR	16CH	16CH
HDVR	16CH	16CH
HPLUS	16CH	Support up to 6CH

2. Audio

SDVR	Support up to 2CH
HDVR	Support up to 5CH
HPLUS	Support up to 9CH

2) Channel

1. Selecting the camera CH/Apply change to all camera CH

2. Insert the place name of selected camera

3. Switching delay time for screen-partition mode

4. (Search Screen)   (Monitoring Screen)
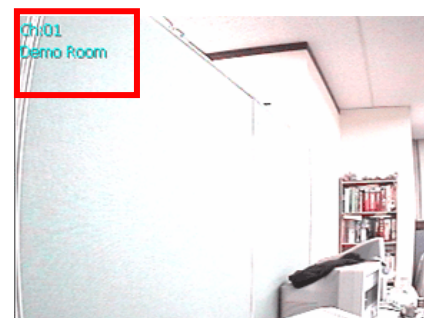
5 : Assign control color tone

Click color you wish to change
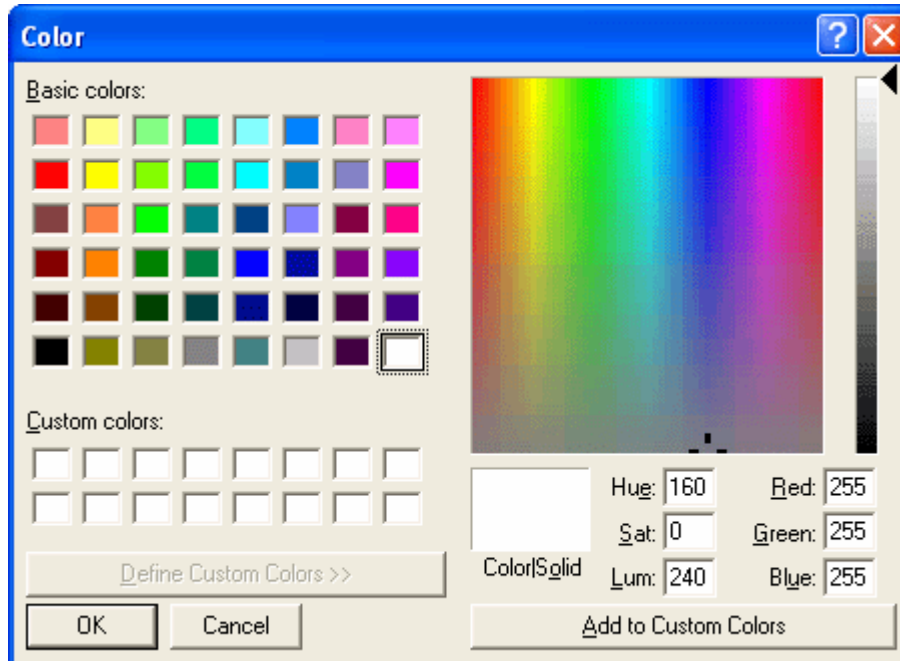
    Select Color you wish to change and then click confirmation button

6 : Select you wish to change character form, and size

7 : Preview selected result from step (**1**) ~ to step (**6**)

8 : Adjust Picture Quality

DVR Server v2.0

3) Store
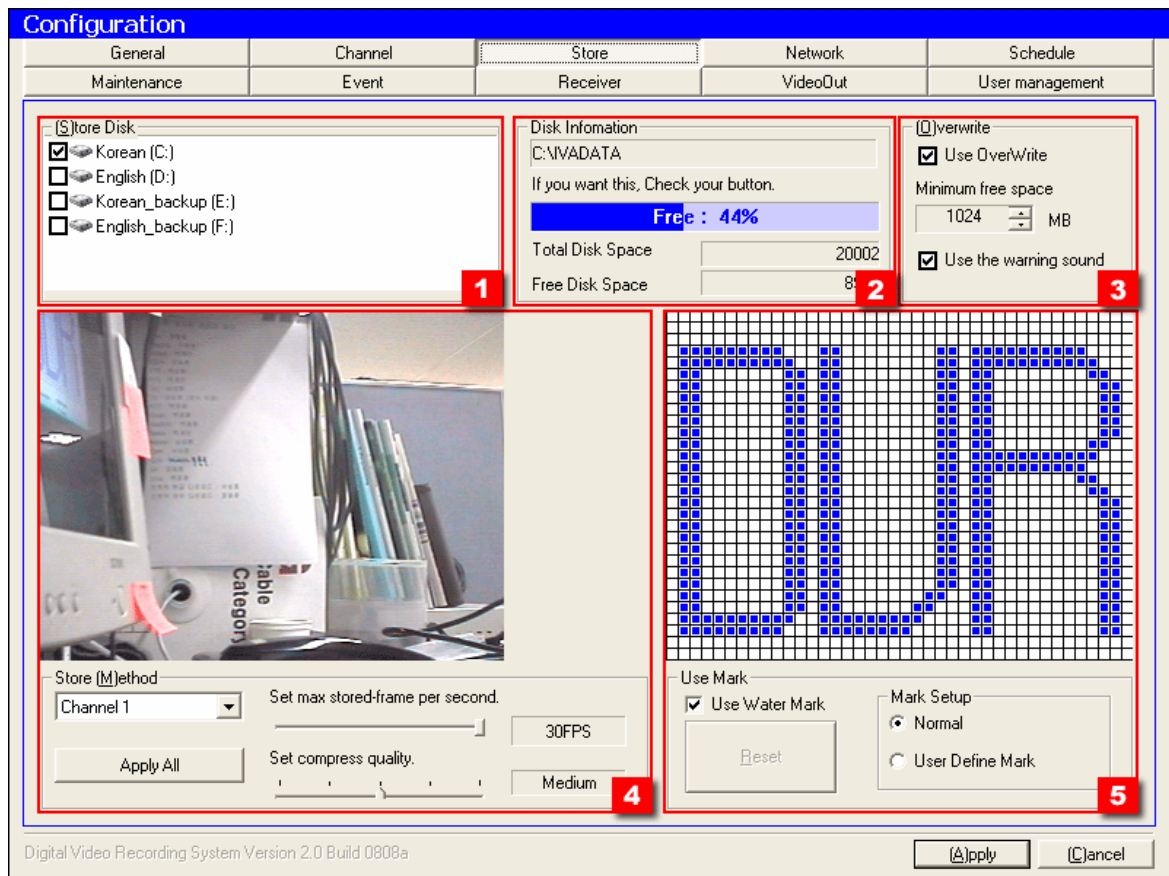
1 : Check the HDD where you want to use for storage

2 : Indicates total HDD space for selected HDD in [1].

3 : Select to use overwrite function

EX> Start to overwrite when HDD Free space becomes 512 MB

4 : Display Picture Quality and Setting stored-frame
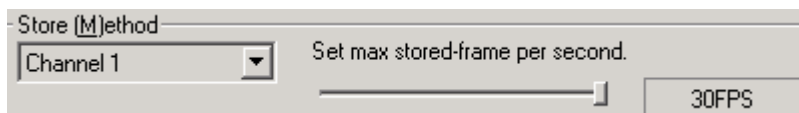
Display frame number of each channel (30Frame per Second)

: Higher FPS provides more natural image

 Setting compress quality

5 : Watermark Setup

☑ Use Water Mark : Select Watermark

○ User Define Mark : Display DVR Mark as default image
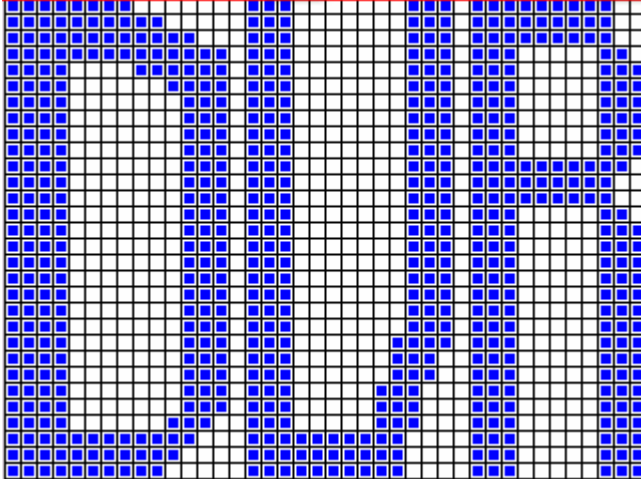
○ User Define Mark : The user can define own mark

Use Mark
☑ Use Water Mark

Reset

Mark Setup
◉ Normal
○ User Define Mark
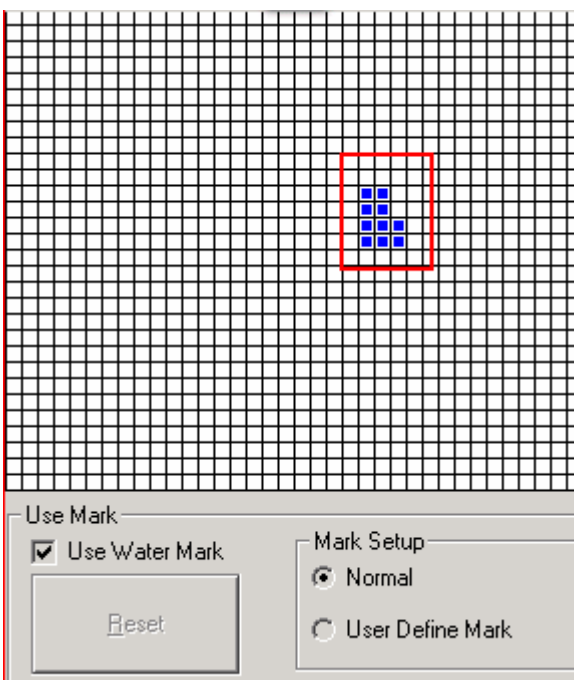
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4) Network

1.: Network Server

 : Use LAN

 : Use MODEM

2 : Indicates DVR IP address and MAC address.

3.: Limit of possible simultaneous client connection

Network Access Port: Select Port No. while Client is accessing to Server

Max. Accessing User Number: Assign Accessing User Number (Max. 100 Client number)

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★ **Register Dynamic IP**
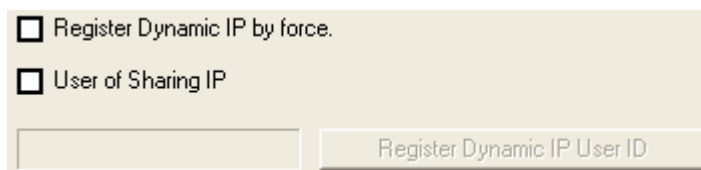
: Service for dynamic IP users

<div style="border: 1px solid black; padding: 5px;">

DHS (Dynamic Host Services)

</div>

Dynamic IP users IP address changes frequently which causes inconvenience to check IP

address each time when connection. DHS executes a role as fixing Dynamic IP to Static IP.

For DHS(Dynamic Host Services) registration please visit http://chainip.com/eng.

* Please notify DHS is paid services.

☐ Register Dynamic IP by force.

☐ User of Sharing IP

[   ]   Register Dynamic IP User ID
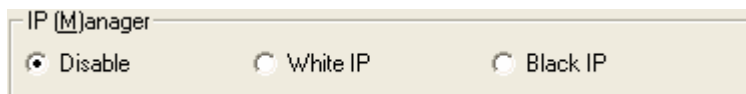
For Dynamic IP users when ([   ] Register Dynamic IP User ID) part is not activated:

Please click 'register Dynamic IP by force'

For Sharing IP users

: Please click 'User of Sharing IP'

4. IP Manager setup

IP (M)anager
⊙ Disable   ○ White IP   ○ Black IP

IP Manager configuration   Disable : Allow any IP for connection.

White IP : Allow selected IP for connection.

Black IP : Prohibit connection of selected IP.

DVR Server v2.0

★ Network Configuration ★

(White IP setup)

< Before setup >   < After setup >

1 : Click White IP in [1].

2 : If 'Add IP' is activated please insert IP address.

3 : Cllick [2] button and IP address will be added to White IP List.

(Black IP setup)

3 : Click [2] button to add IP in Black IP List.

5) Schedule

1, 3 : Setup Recording, MD, Sensor schedule.

2 : Choose channel in [1].

[1, 3 Schedule setup]

Draw>

Click Mouse-Left button to Drag

Erase>

Click Mouse-Right button to Drag

DVR Server v2.0
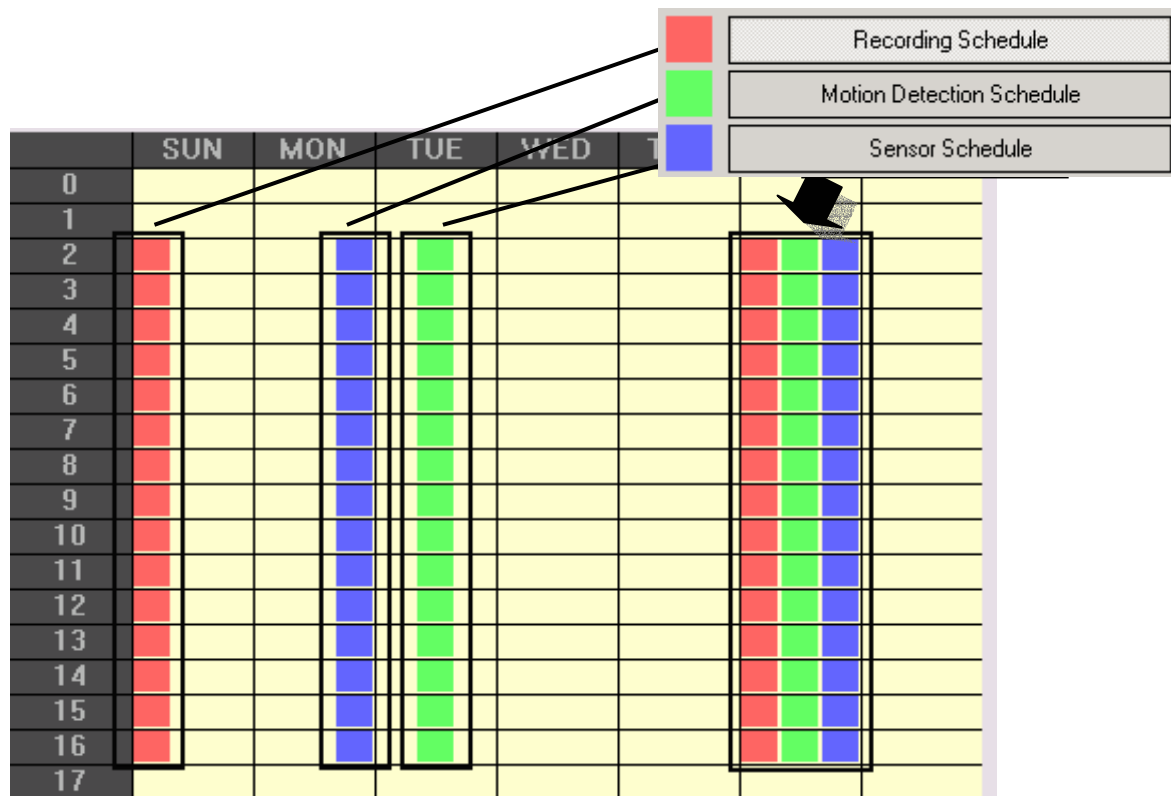
DVR Server v2.0

6) Maintenance

1 : Display Windows Information (OS, CPU, RAM)

2 : Display DVR Information

3 : Display operating program contents of DVR System

4 : Select Data Verification as run DVR program

   Normal Check Mode: Ordinary Check (Fast Checking Speed)

   Full Check Mode: Detail Check (Slow Checking Speed)

5 : Auto reboot system

DVR Server v2.0

7) Event

1 : Select camera channel you wish to change

Click Apply All button to apply all channels

2 : Setting up Sensor of existing operating camera channel (Optional)

3 : Setting up Digital Output(Optional)

4 : Select any Warning Sound.

(Item 2, 3, 4) applies only when I/O installed in DVR

5 : Duration of warning time when sensor input.

Motion Detection Store

Motion detection is to detect any relevant changes in the image or video.

Motion detection demonstrates how sensitive peripheral version is to motion.

At a certain point, you can no longer see the object. If the object starts moving, you will become aware of it, even though you could not see it while it was stationary.

<Picture 1> MD Setting Area

Mouse-Left button Drag and Drop: Select MD Area

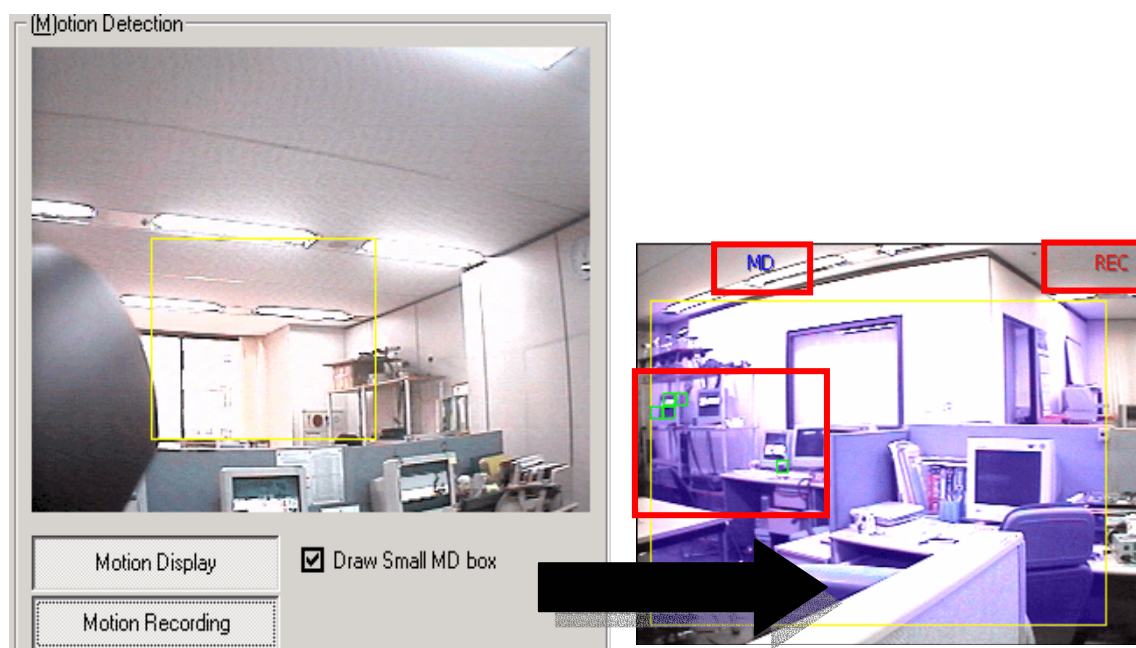Mouse-Right button Drag and Drop: Unselect MD Area

Mouse Left button Double Click: Select all of the Area

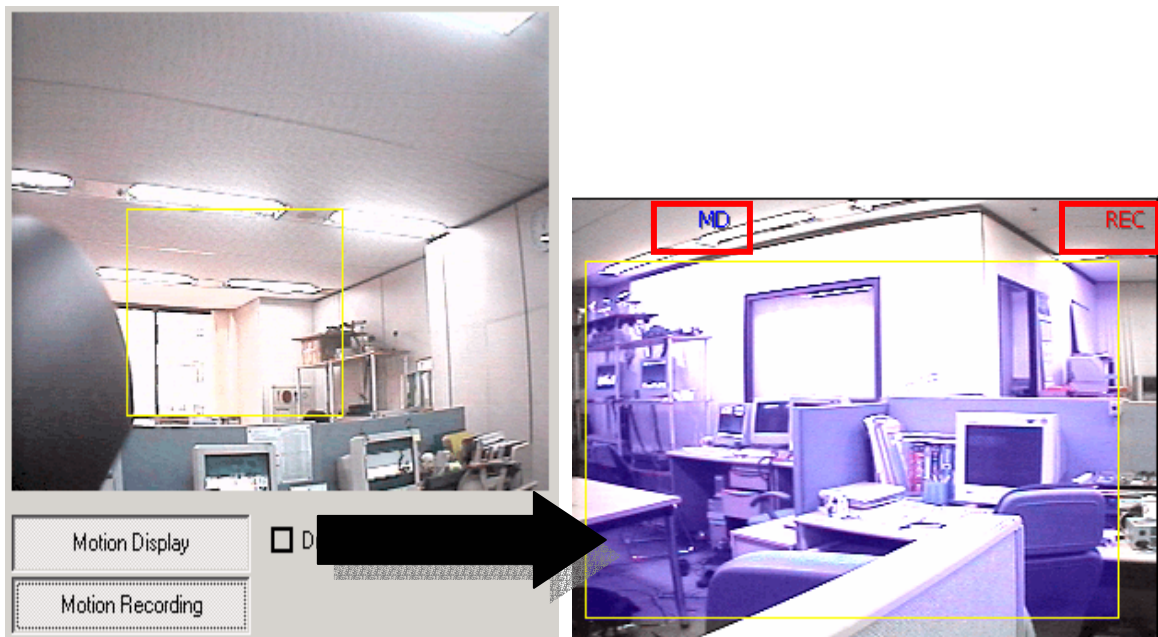Mouse Right button Double Click: Unselect all of the Area

<Picture 1>

6 : Motion Detection Configuration

   - Check Point : Motion Detection Display, MD Driven-Recording, Draw Small MD Box

- Check Point : Display MD, Record MD images

- Check Point : Record MD images

7 : MD Sensitivity Setting

8) Receiver

1 : Select the serial port to use (COM1,COM2))

2 : Display current receiver information

3 : For expansion of Pan/Tilt function

 : Swap vertical command of P/T protocol.
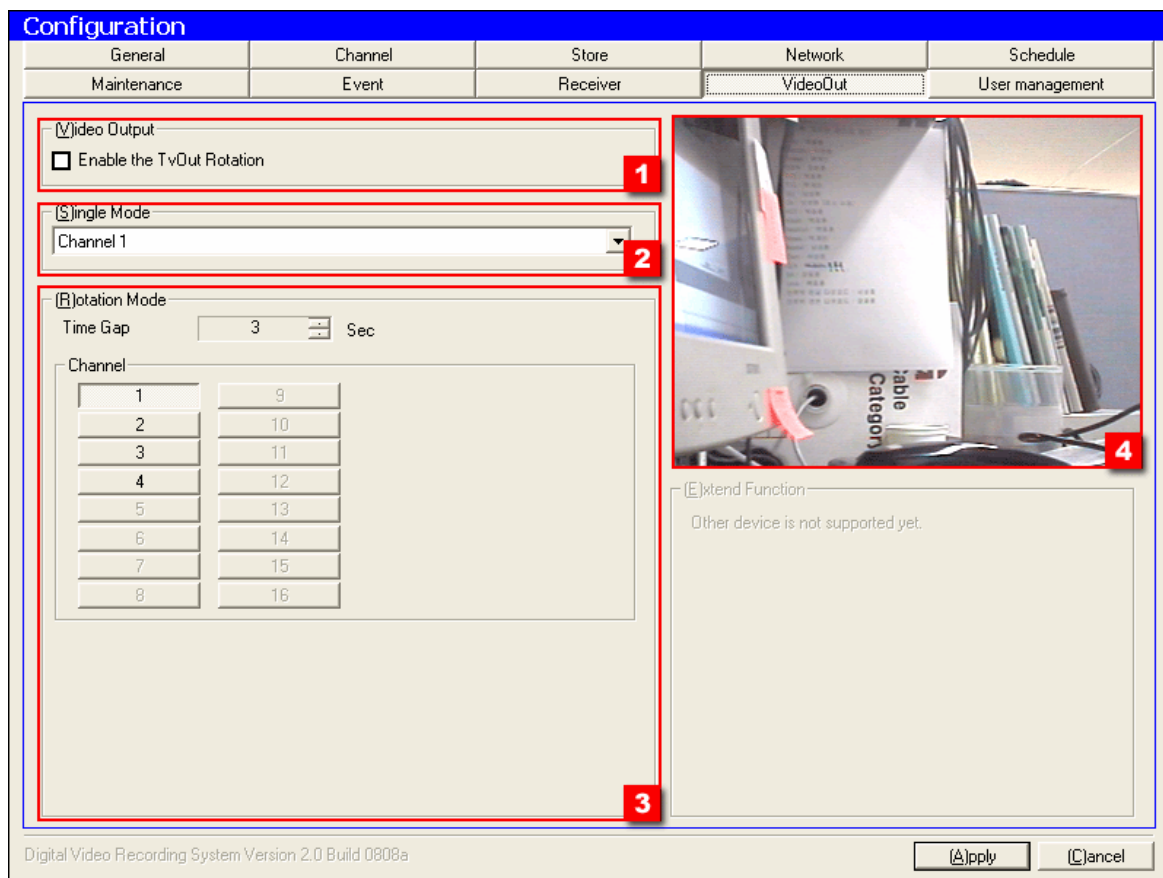
: Swap horizontal command of P/T protocol.

4 : Available receiver list: (Select the receiver to use)

Address of Receiver has to be equal to the channel number.   Also you have to use same

device. (EX: Channel 1 => HW Address)

9) VideoOut

1 : Setting Output CH number through TV-Out (Option)

2 : Select TV-Out CH

3 : Setup time of Switching Mode

4 : Appear Preview Screen

10) User Management

1 : User List

2 : Log In/Out management

: Automatic log out function after setup time

: Enable login & out function.

3 : Authorization of local functions and remote control

< Add users >

: Insert User ID and Password   Click 'Modify user information.'

DVR Server v2.0

Accessable (L)ocal Functions

☐ Accessibility of User Management
☐ Accessibility of DVR System's configuration
☐ Accessibility of the Search&Playback mode
☐ Accessibility of the system shutdown
☑ Accessibility of PTZ Cameras
☐ Accessibility of the System log
☑ Accessibility of the Recording

Setup "guest" user accessibility.

: Choose accessibility for DVR Server.

Accessable (N)etwork Functions

☐ Accessibility of the server via Network
☐ Accessibility of the Network user management

Setup "guest" user remote accessibility.

: Choose accessibility for remote Client program..

3-3 Search Screen Mode

1 :   Playback, Rewind, 2X Playback

2 :   = Save selected screen as image
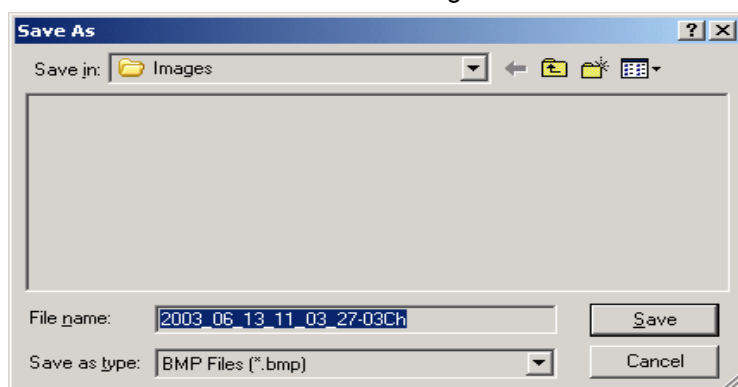
Choose where to save image file and write file name

Print

   = Print Images

Print Setup
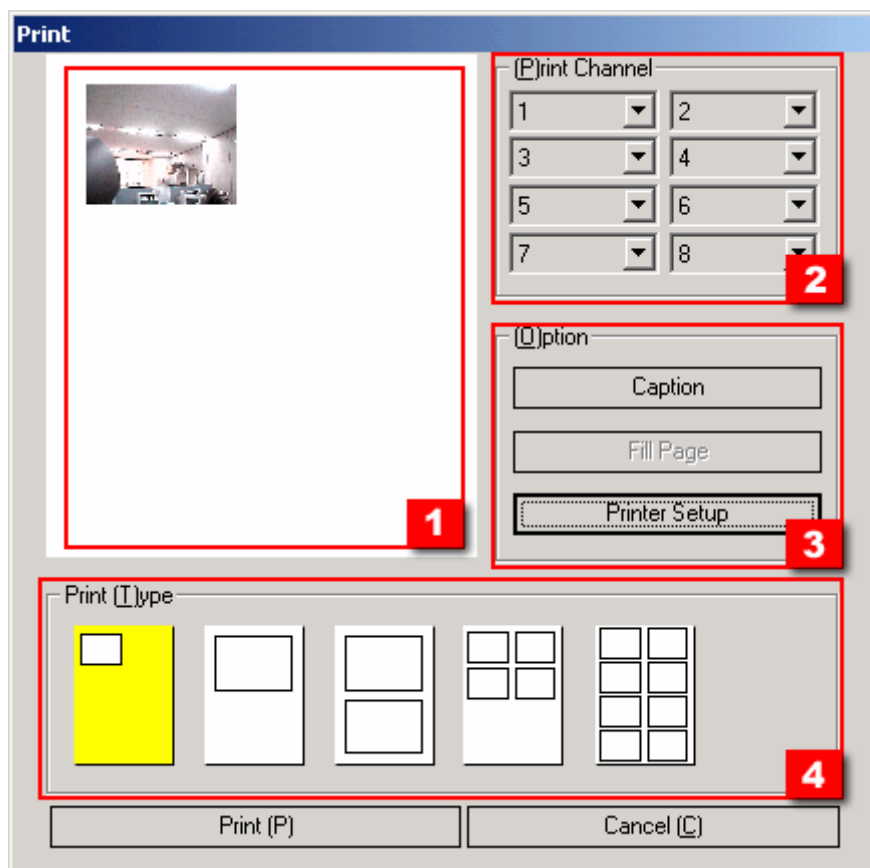
1 : Preview Printing Images

2 : Able to print maximum of 8 selected camera channels

3 : Printer Setup Option

DVR Server v2.0

<Print Configuration>
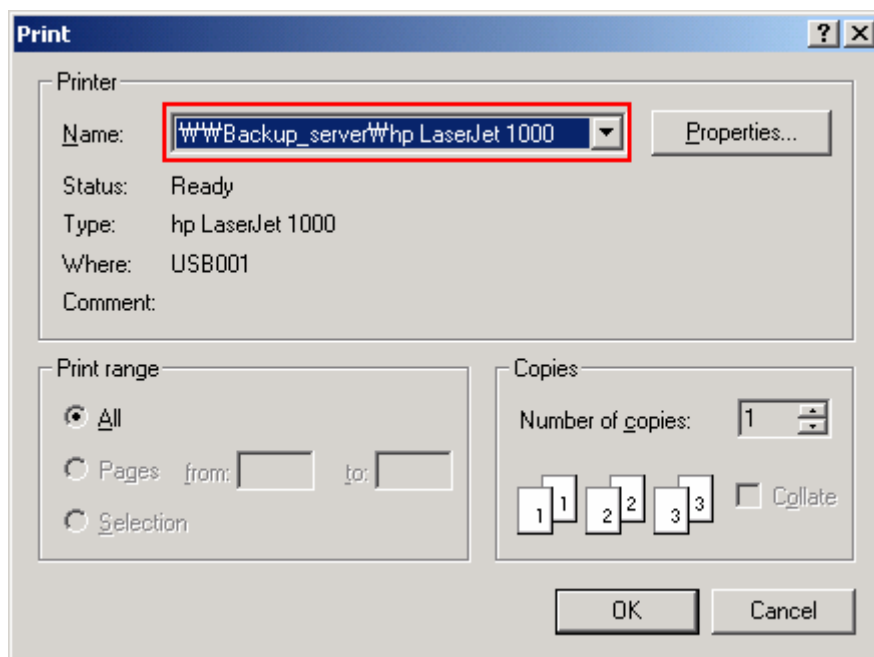
Click the [OK] button to print

4 : 1 CH original copy size

1 channel image print out

1channel double size image print out

2 channels double size images print

4 channels images print out

8 channels images print out
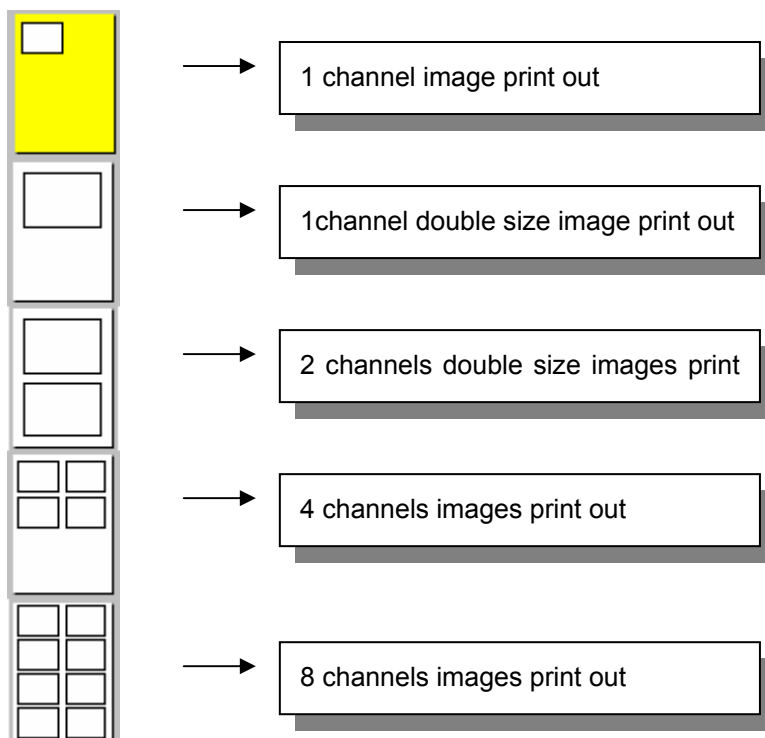
Watermark

 : Watermark Icon

Direction to use Watermark

1. Save image from search screen and view screen

Save image before you run WaterMark Viewer program.
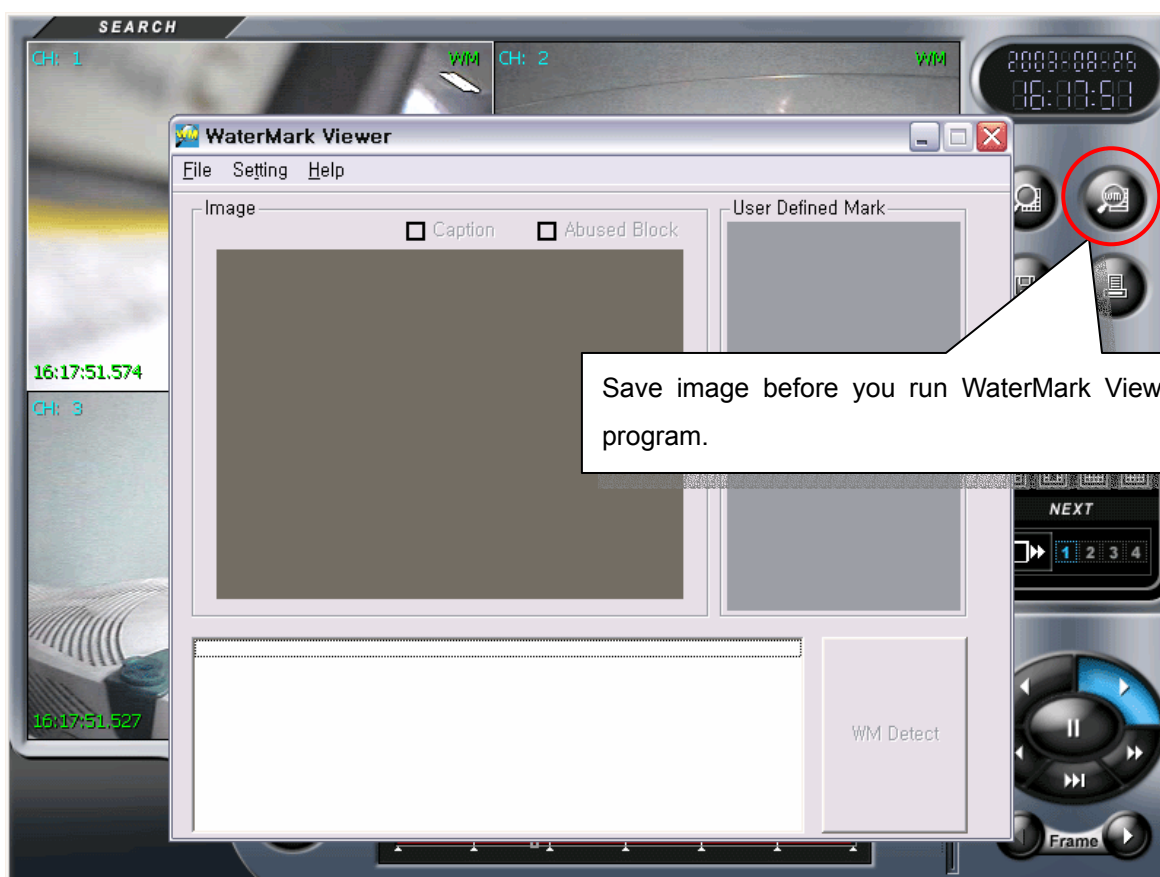
- Next Page -

2. Click the watermark ( ) icon from searched Screen Mode

Open File to bring saved data
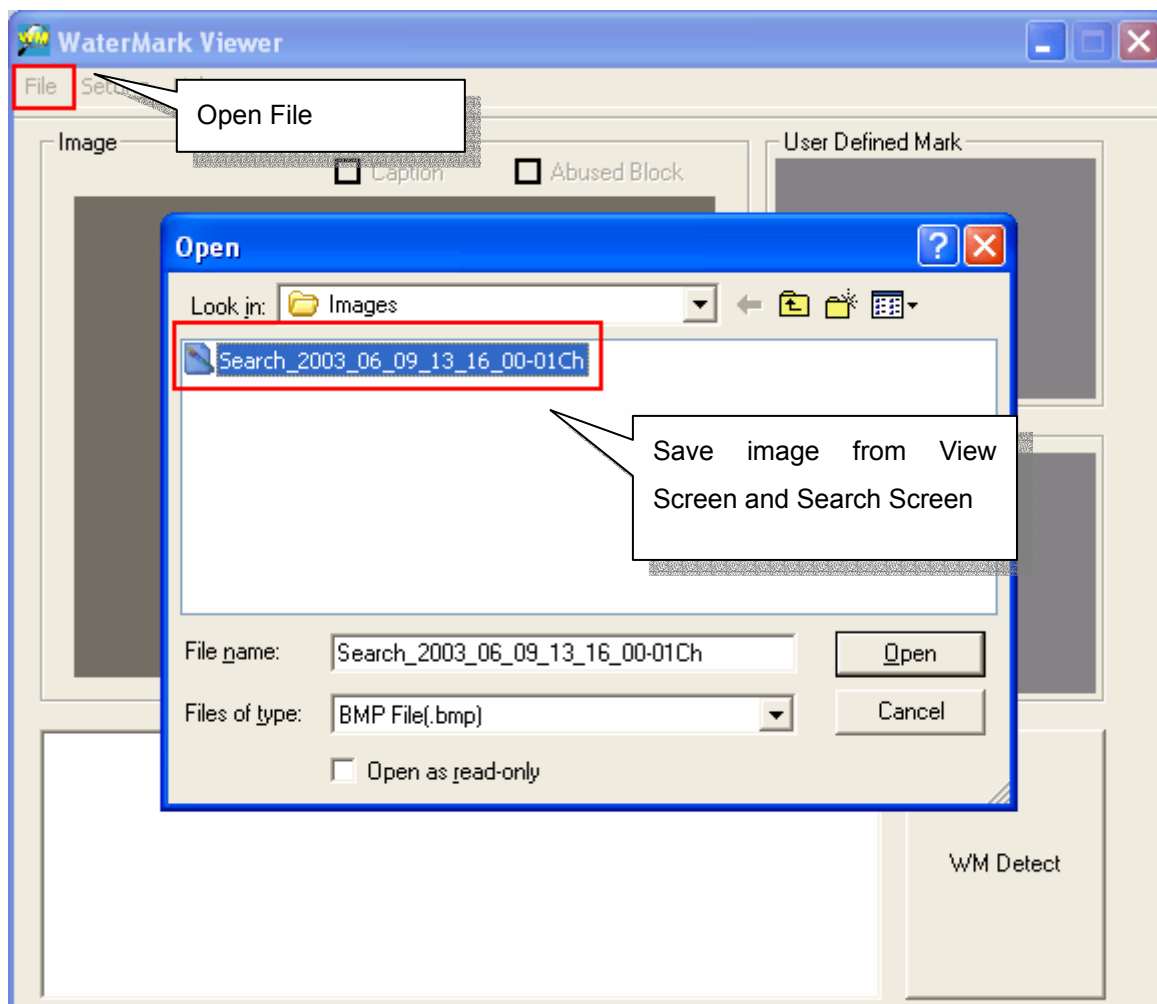
※ **(Watermark)**

A copyright-protection of embedding a code into a digital audio or video file to attempt to thwart piracy or unlicensed use

A watermark is a normally invisible pressure mark in expensive paper which can be seen only when the paper is held up to the light. Some computer files have digital watermarks embedded in them as a pattern of bits which appear to be part of the file and are not noticeable to the user. These patterns can be used to detect unauthorized copies.

An identification code or bit pattern integrated into multimedia data that aids copyright owners in identifying illegally distributed audio, video, or image data.

3.Click the [WM Detect] to watermark

Image has not been tampered
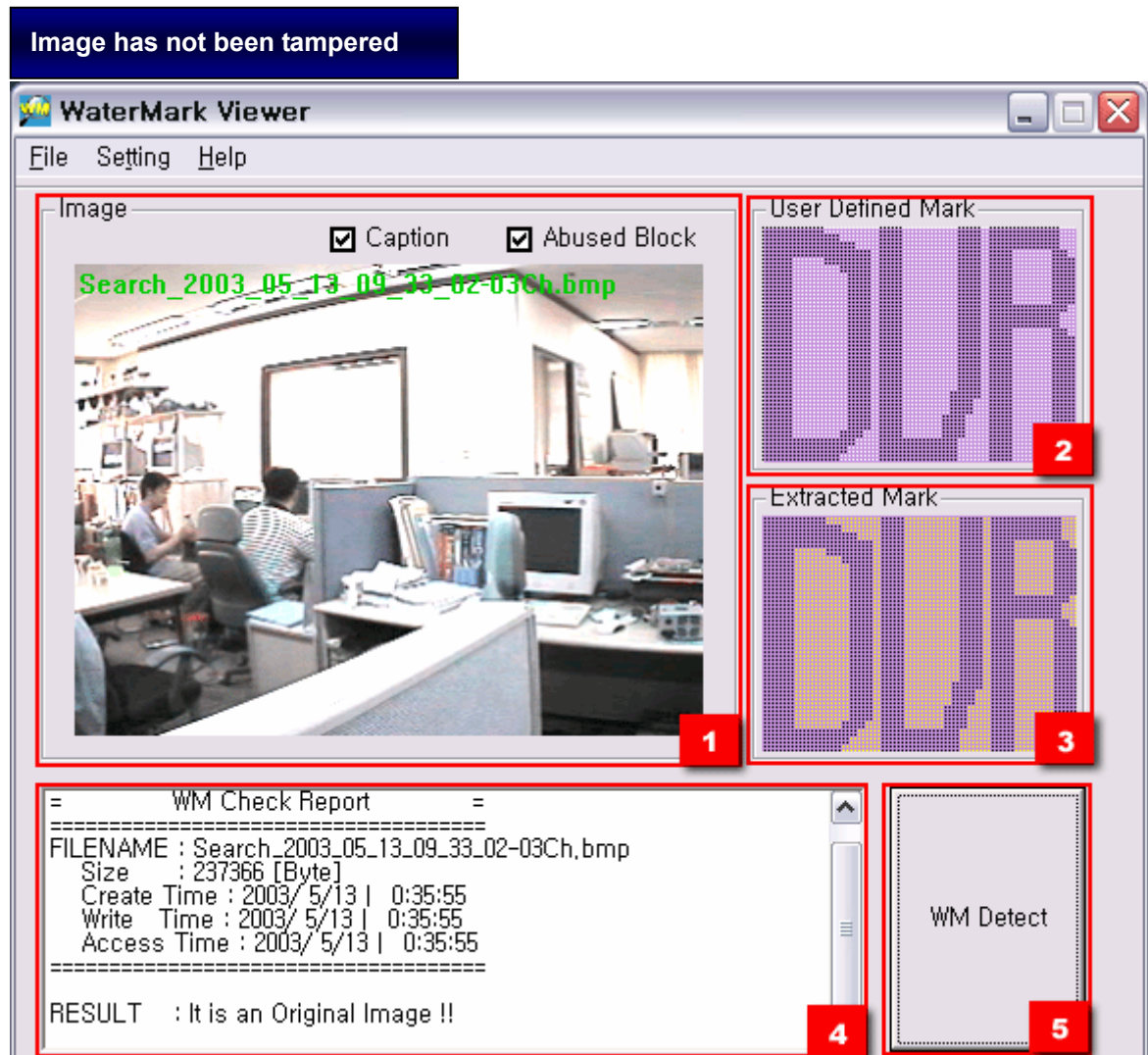
1 : Show saved image.

2 : Show defined Mark by user at Configuration Mode

3 : Show Mark hidden in real image

4 : Show information related to image (Size, file formation time, modified time, process time)

RESULT : It is an Original Image !!   = Show that images has not been tampered

5 : WM Detect button

Image has been tampered
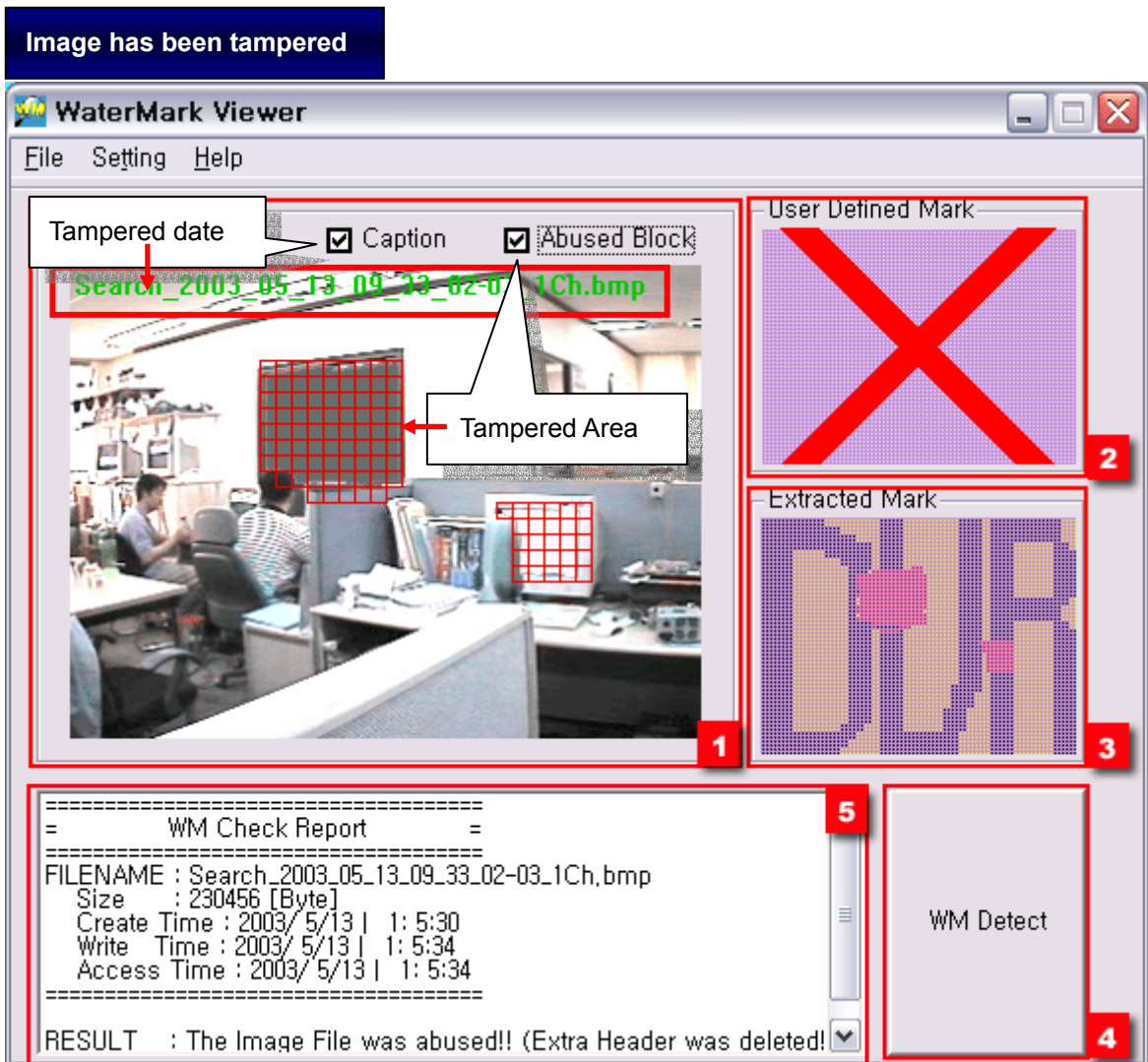
1 : Show saved image

2 : Show defined value of Watermark from Configuration Mode

　　Display X Mark as tampered image was detected

3 : Show Mark hidden in image (Display read color at tampered area)

4 : WM Detect Button

5 : Show image information size, reading time, writing time)

　　RESULT : The Image File was abused!!　(Image has been tampered)

DVR Server v2.0

Search

1. Move to Search Screen Mode and then Click the calendar (   ) Icon

Date of saved data

Current Date

DATA

2003 4

SUN MON TUE WED THU FRI SAT

UPDATE

MD ONLY

LOAD

CANCEL
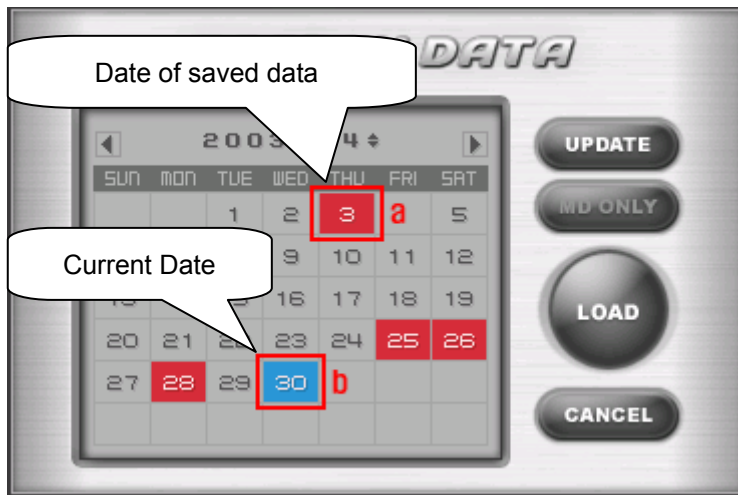
2. Select Search Date and then Click [Load] button

DVR Server v2.0

Search Screen

Playback saved images

2X Playback

Reverse Playback

Pause

Search data by each frame

- Hour Search
- Minute Search
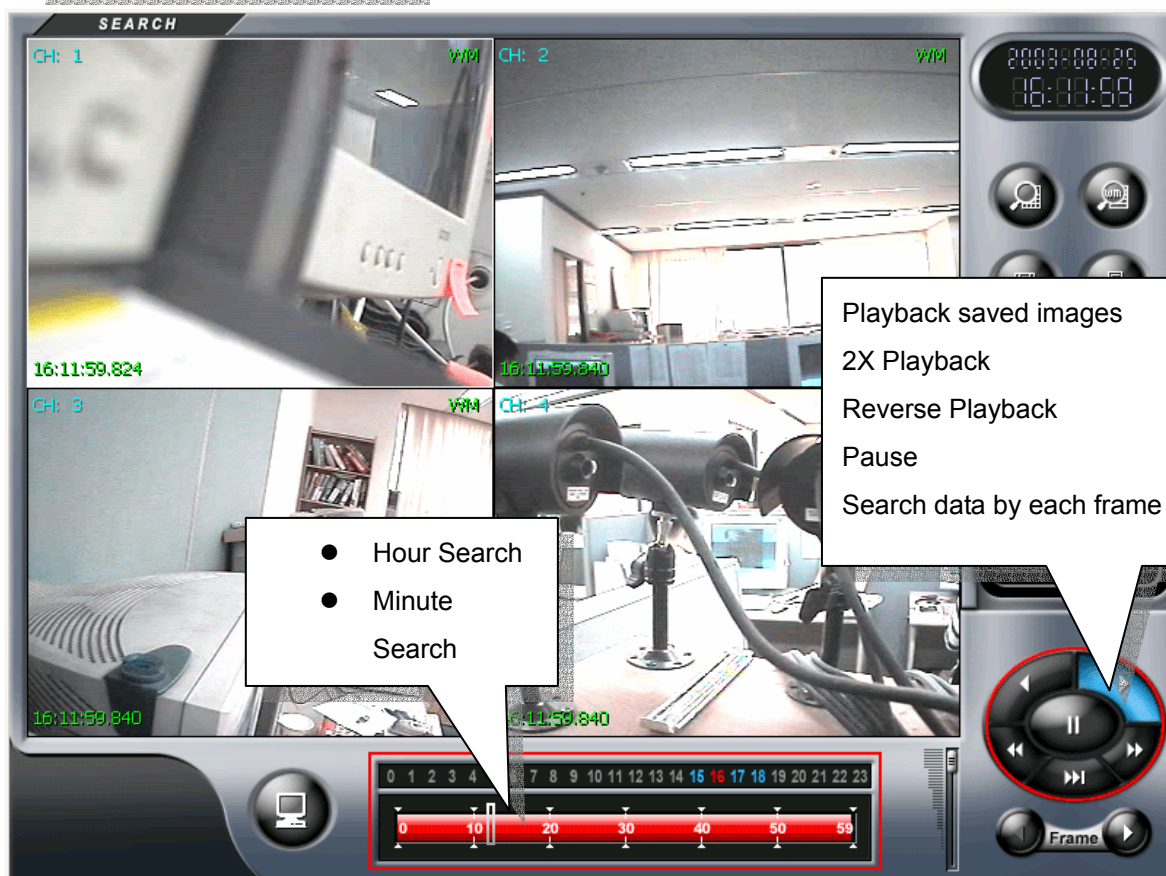
Click the view mode ( ) icon to return to Monitoring Screen (Main View Screen)

Warranty

Model	**DVR Server v2.0**
Manufactured Date	
Lot. No	
Period of Warranty.	1 Year after purchasing
Purchased Date	

It was a qualified item to pass a strict inspection and Quality control.
If it happen any problem, it will be guaranteed according to the
following written description.

1. The period of warrant is one year from the date of purchasing this item.

2. In case of deficit in manufacture, when happening trouble spontaneously,

   We are ready to exchange or free-repairing refund or compensation.

3. If will fix up the system at Actual expense even though it in the period of

   Warranty as following cases;

   A. Mistake in using this system or trouble by handling carelessness

   B. Trouble by repairing and reorganizing without our company is Permission,

      Trouble to repair and reorganizing system by other companies Service

   C. Troubles or Damages by due to the natural disaster Fire, earthquake, flood etc.

   D. A case of Troubles by Customer's attention of mistakes

4. If you would like to request the Application of A/S. Please contact below.