

Software operation Manual



Secure your place at Anytime from Anywhere



















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About This Guide

Conventions used in this guide

To make sure that you perform certain tasks properly, take note of the following symbols to use throughout this manual.



WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Information that you must follow to complete a task.



NOTE: Tips and additional information to aid in completing a task.

FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Shielded cables and I/O cords must be used for this equipment to comply with relevant FCC regulations.

License Agreement

Notice to end-user: please read the following legal agreement carefully. Use of the Witness or any of the software provided with this agreement constitutes your acceptance of these terms. If you do not agree with the terms of this agreement, PROMPTLY RETURN the Witness system, Witness, AnyView Pro and FreeView Pro, any related software and the included items (including the Witness video system, written materials and containers) to the location where you purchased them for a full refund.

1. License Grant. I-View grants to you (either as an individual or an entity) a personal, nonexclusive, nontransferable license to use one copy of the executable code of the I-View's Witness, FreeView Pro and AnyView Pro on a single CPU residing on your premises. The term of this Agreement will be for the duration of I-View's copyright in the Witness, FreeView Pro and AnyView Pro. You may assign your rights under this Agreement to a third party who agrees in writing to be bound by this Agreement prior to the assignment, and provided that you transfer all copies of the Witness, FreeView Pro and AnyView Pro and related documentation to the third party or destroy any copies not transferred. Except as set forth above, you may not assign your rights under this Agreement, nor shall you rent, lease, sell, sublicense or otherwise transfer the Witness, FreeView Pro and AnyView Pro.
2. Reverse Engineering. You may not reverse engineer, decompile or otherwise disassemble the Witness, FreeView Pro and AnyView Pro except to the extent that applicable law expressly prohibits this restriction.
3. Copyright. Title and full ownership rights to the I-View's Witness, FreeView Pro and AnyView Pro will remain the exclusive property of I-View or its suppliers, and you will not acquire any rights to the I-View's Witness, FreeView Pro and AnyView Pro except as expressly set forth above.
4. Maintenance. I-View is not obligated to provide maintenance or updates to you for the Witness system and transport to Witness, FreeView Pro and AnyView Pro. However, any maintenance or updates by I-View shall be covered by the Agreement.
5. Disclaimer of Warranty. I-View warrants that the Witness system, the witness FreeView Pro and AnyView Pro and related software will perform substantially in accordance with the accompanying documentation and those CD-ROM diskettes are free from any defects for a period of 90 days from the date of purchase (limited warranty). Except for the foregoing limited warranty, I-View expressly disclaims any and all other warranties, whether express or implied, including without limitation, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement of third

party rights. If law does not permit such disclaimer of any implied warranty, the duration of any such implied warranties is limited to 90 days from the date of purchase. Some countries do not allow the disclaimer of implied warranties, limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so such limitation as or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary, from state to state.

6. **Customer Remedies.** In the event the Witness system or related software does not meet or conform to the Limited Warranty, I-View's entire liability and your sole and exclusive remedy shall be, at I-View's option, either to (a) correct the error, (b) help you work around or avoid the error or (c) authorize a refund so long as the Witness system documentation and CD-ROM diskettes are returned to I-View with a copy of your receipt. This Limited Warranty is void if failure of the Witness system has resulted from accident, abuse, or application. Any replacement Witness system will be warranted for the remainder of the original warranty period.
7. **No Liability for Consequential Damages.** In no event shall its suppliers be liable to you for any incidental, indirect, special or consequential damages of any kind rising out of or related to this agreement or use or inability to use the related software, even if I-View has been advised of the possibility of such damages.
8. **Please acknowledge that the laws and regulations of the Taiwan R.O.C. restrict the export and re-export of commodities and technical data of Taiwan R.O.C. origin.** You may not download or otherwise export or re-export the Witness system or related software or any underlying information or technology except in full compliance with all United States and other applicable laws and regulations. You agree to indemnify and hold I-View harmless from and against any and all liability arising from or relating to your breach of this Manual.
9. **Governing Law; attorneys' fees.** The laws of the Taiwan R.O.C will govern this agreement. Without regard to conflict of law principles. The R.O.C. Convention on Contracts for the International Sale of Goods is specifically disclaimed. The prevailing party shall be entitled to recover its reasonable attorneys' fees in the event of a dispute arising out of or relating to this Agreement.
10. **Entire Agreement.** This is the entire agreement between you and I-View with respect to the use of the Witness, FreeView Pro and AnyView Pro, which supersedes any prior agreement, whether written, or oral, and all other communications between the parties relating to the subject matter of this Agreement. Should you have any questions concerning this Agreement, please contact I-View directly at one of the

numbers or addresses listed at the beginning of this manual.

Trademark

I-View, e-Witness, @-Witness Pro, u-Witness XP, x-Witness, FreeView Pro and AnyView Pro are registered trademarks of I-View Communication Inc.

Microsoft, Windows 95, 98, Windows2000, XP and ME are registered trademarks of Microsoft Corporation.

All other trademarks are the property of their respective holders.

Customer Support

If problems arise with the remote surveillance and security system that you are unable to resolve, please try the following: If you have an Internet connection, visit the I-View website <http://www.i-view.com.tw> (Taiwan) for any software or product updates, or email to support@i-view.com.tw or Tel: 886-3-510-3001 Fax: 886-3-510-3002 (Taiwan). We are dedicated to providing the highest quality support. E-mailing our tech support will give you the chance to document each of the above items in a very clear and concise manner and will give our support team a chance to document any problems and respond with thoroughly researched answers.

Chapter 1 Product Introduction

The Witness is surveillance application software for local live monitoring, recording and playback. User needs to install the I-View CP series video DVR board in PC first to perform this application software properly.

1-1. Product Feature

The Witness surveillance software provides following features:

- **Display:** Max.960 FPS display rate, up to 32 videos input.
- **Video / Audio:** Up to 32 videos / 16 audios recording, remote/local audio listening.
- **Dual Monitor Display:** Allows live and eMap or playback screens to be viewed on separate monitors.
- **Screen:** 1, 4, 6, 7, 8, 9, 10, 13, 16 and 32 multi-screen video displays and programmable switching.
- **Video Clips Backup:** E-Z Backup program supports various external storage devices (HDD, CD-RW, DVD-RW, etc), and play recorded video clips easily with the windows media player or “EZ Playback” software.
- **EZ Playback Search:** Provides user to search and play a specific video clips by time, date, event and preset keywords.
- **E-Map:** Provides user to overview the security system devices of a site graphically, it indicates the locations of the connected cameras, sensors, relay and Fingerprint Access controller.
- **Motion Detection:** Provide sensitivity control and flexible area settings to detect a specific area object moving.
- **Watermark:** Prevents the recorded image to be modified or altered.
- **Alarm Notification:** While alarm has been triggered, the system will automatically notifies by phone, email or live video.
- **Event Log Records:** Display the system log about logins/logouts, video loss, remote access, HDD failure, motion detection. POS text and Access controller text.
- **FreeView Pro and AnyView Pro (Remote Client Software):** Support simultaneously multiple sites connections for remote live view, recording, download and playback video clips.

Chapter 2 Software Installation

This chapter describes the Witness software installation, which includes system requirement, installation prerequisites, recommended installation order of work, Witness Pro software installation procedures, FreeView Pro installation procedures, AnyView Pro installation procedures and PDAView Pro installation procedures.

2-1. Software System Requirements

Before installation the DVR software, be sure that the PC meets the minimum system requirements.

2-1-1. Witness Pro (Local Recording/Transmitter Software)

- **Operating System:** 2000 (Service Pack 2 or above), XP or Vista.
- **CPU Requisites:** Please refer to the table in **Appendix A** for CPU requirements detail.
- **Memory Requisites:** 512 MB RAM is minimum; 1 GB RAM or better is recommended.
- **Hard Drives:** 7200 RPM hard drive speed or better is recommended.
- **VGA Card:** 24 bit (True-color) or better.
- **Sound card and speakers:** For alarm sound effects.
- **Microphone:** 2Vp-p output is required for audio recording.
- Modem speed 33.6K or better; external modem that supports Wave files is recommended.
- **CP Series DVR Board:** Please be sure that the @Witness DVR board series has been installed in the PC. For the DVR system requirements and installation, please refer to the table in **Appendix B** and the CP series DVR board installation guide.



There are several models for different software. It is described as below:

Software	Hardware
Witness 1400 AS/2400AS Pro	CP-1400AS/2400AS XP
Witness 1408/3408ASE Pro	CP-1408ASE XP/ CP-3408ASE XP
Witness 1416/3416ASE Pro	CP-1416ASE XP/ CP-3416ASE XP
Witness 1404/3404HS Pro	CP-1404HS-T XP/ CP-3404HS XP
Witness 2160(2320)/3160/3320 RD Pro	CP-2160RD/ CP-3160RD/CP-3320RD Deluxe
Witness 1908/1916ASE Pro	CP-1908ASE and CP-1916ASE XP
Witness 1932ASE Pro	CP-1932ASE XP
Witness 5432ASE Pro	CP-5416ASE XP * 2 pcs
Witness 5404/5408/5416ASE Pro	CP- 5404/HS, CP-5408ASE and CP-5416ASE XP

2-1-2. FreeView Pro and AnyView Pro (Remote Client Software)

- Desktop or Notebook PC with Pentium III 500 MHz CPU or better.
- Operating system: Windows 2000, XP or Vista.
- 256 MB free hard drive space minimum.
- Sound card and speakers are required for sound alarm/effects.
- 24-bit (true-color) VGA card or better.
- Modem speed 33.6K or better.



1. FreeView Pro is used by TCP/IP and the AnyView Pro is used by modem-to-modem remote viewing.
2. The output level of microphone must be over V2p-p.
3. The modem must support Wave files; otherwise can not work when you use “Phone call”.
4. The file size of compression image depends on resolution, compression method, compression rate and testing environment.

2-2. Installation Prerequisites



It is recommended to install the Witness software before install the DVR board on PC to reduce the unnecessary additional installing procedures.

2-3. Recommended Installation Order of Work

The Witness installation complete work is in the following order:

- Step1.** Start a PC running on Windows and insert the software CD into a CD-ROM.
- Step2.** Install the “Device Driver & Witness Pro Software”.
- Step3.** Shut down the PC to install the DVR board and other hardware devices.
- Step4.** Turn on the PC running on Windows and wait for the system finishing the DVR board driver automatic configuration.

2-4. Software Installation Procedures

The procedure for installing the Witness software is the same for all supported windows environments. Please follow the instruction below to install the Witness, FreeView Pro and AnyView Pro software.

2-4-1. Witness Pro Installation Procedures



You MUST connect the USB cable between DVR board and Motherboard when you use the CP-2160RD, CP-3160RD, CP-3320RD, CP-19XX, CP-54XX ASE and CP-2400AS DVR board. Otherwise you cannot run the Witness Pro Program correctly.

Please follow the steps below to install the Witness Pro completely.

Step1. Start a PC running on Windows and insert the software CD into a CD-ROM.



If the Windows dose not display the software installation menu after inserts the software CD, please go to the CD-ROM folder and click the “Install.exe” file to process.

Step2. Select the first selection of the “Device driver & Witness Pro Software” as showing in Fig. 2-4-1.1 below to install.



Fig. 2-4-1.1 Installation Menu

Step3. Please select the correct software to match DVR card. As showing in Fig. 2-4-1.2 Selection Section



Fig. 2-4-1.2 Selection Section

Step4. Please make sure your have the selected the correct software for your current using DVR card. Please click “Yes” button to continue, or “No” button to select the correct software. As showing in Fig. 2-4-1.3 Confirm Section.



Fig. 2-4-1.3 Confirm Section

Step5. Select the Installation Language and press the “OK” button to continue.



Fig. 2-4-1.4 Choose a setup language

Step6. Press “Next” button to start the installation process.

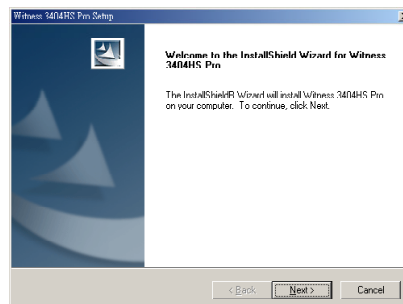


Fig. 2-4-1.5 Installation Start-up

Step7. Click the “**Browser**” button to change the installation directory, or directly click the “**Next**” button to continue.

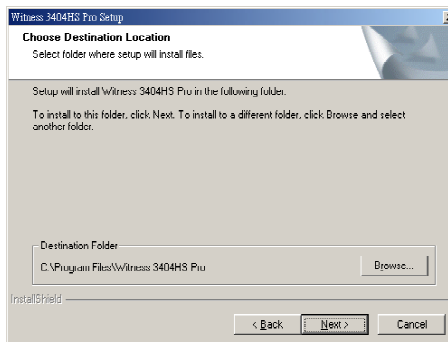
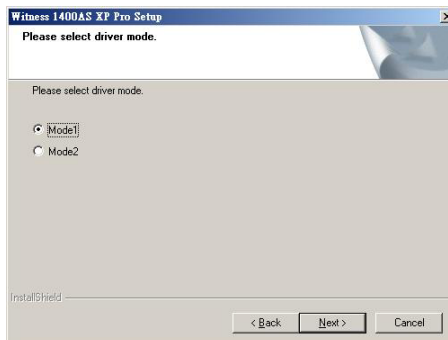


Fig. 2-4-1.6 Set up installation directory

Step8. Choose one of driver modes. The Default driver mode can suit the most Motherboard, when the video signal is not stable that you can choice Mode 2. Click the “**Next**” button to continue. (For CP-14xx series only)

Fig. 2-4-1.7 Select driver mode



Step9. Select an audio recording source – From DVR board or Sound card. Press the “**Next**” button to continue.



If the DVR board contains the audio recording function, please select the “Recording audio from DVR board” option. If the DVR card has multi audio recording function that the model should be CP-XXXXASE-A.

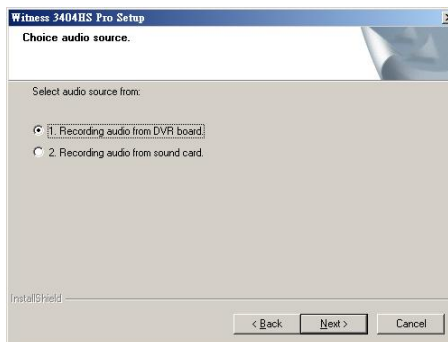


Fig. 2-4-1.8 Select an audio source

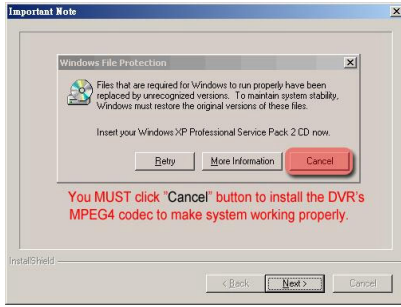


Fig. 2-4-1.9 Windows Notification

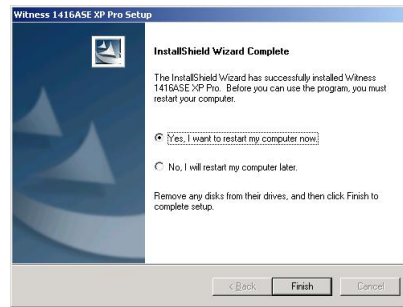


Fig. 2-4-1.10 Windows Notification

Step10. The O.S. will ask you recover to original MPEG 4 Codec, when you use the Windows XP SP2 or Vista O.S. You must select “Cancel “ and then click “ Yes “ button to ignore this process, otherwise the video will show the up side down.

Step11. Select the “No, I will restart my computer later” and press the “Finish” button to exit.

Fig. 2-4-1.11 Restart the computer



Step12. Shut down the PC and follow the hardware DVR board manual instruction to install the DVR board into the PC.

Step13. After user completes the DVR board hardware installation, turn on the PC; the Windows O.S. will display the “Find a New hardware “message and request a driver. User can install the drivers from the path as below:

Model	Location of Device driver
CP-1400AS XP, CP-2400AS XP	C:\XPDevice
CP-2160RD, CP-3160RD , CP-3320RD, CP-2320RD, CP-19XX ASE Series, CP-54XX ASE Series	C:\RDDevice

2-4-2. FreeView Pro Installation Procedures (TCP/IP)

This chapter walks you through the installation and setup process for Remote client software, FreeView Pro. Please follow the steps below to complete the installation.

Step1. Please select the “FreeView Pro Software” option for the **software installation menu** as showing in Fig. 2-4-2.1 below to install.



Fig. 2-4-2.1 Installation Menu

Step2. Select an installation language and click the “OK” button to continue.



Fig. 2-4-2.2 Choose a setup language

Step3. Click the “Next” button to continue.

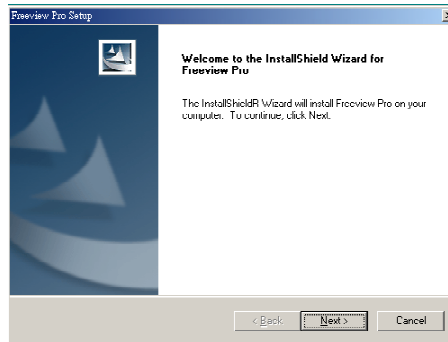


Fig. 2-4-2.3 Installation start-up

Step4. Click the **“Browser”** button to change the installation directory, or directly click the **“Next”** button to continue.

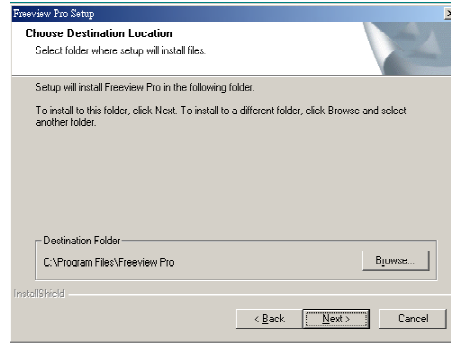


Fig. 2-4-2.4 Select an installation directory

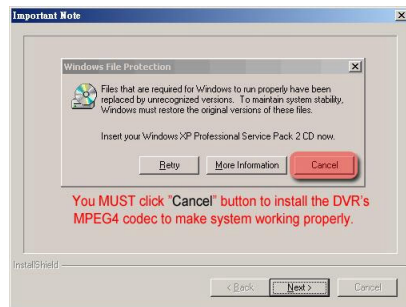


Fig. 2-4-2.5 Windows Notification



Fig. 2-4-2.6 Windows Notification

Step5. The O.S. will ask you recover to original MPEG 4 Codec, when you use the Windows XP SP2 or Vista O.S. You must select **“Cancel”** and then click **“Yes”** button to ignore this process, otherwise the video will show the up side down.

Step6. Click the **“Finish”** button to complete.

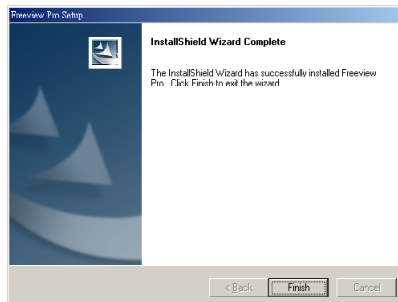


Fig. 2-4-2.7 Finish the installation

2-4-3. AnyView Pro Installation Procedures (Modem to Modem)

This chapter walks you through the installation and setup process for Remote client software, AnyView Pro. Please follow the steps below to complete the installation.

Step1. Please select the “FreeView Pro Software” option for the software installation menu as showing in Fig. 2-4-3.1 below to install.

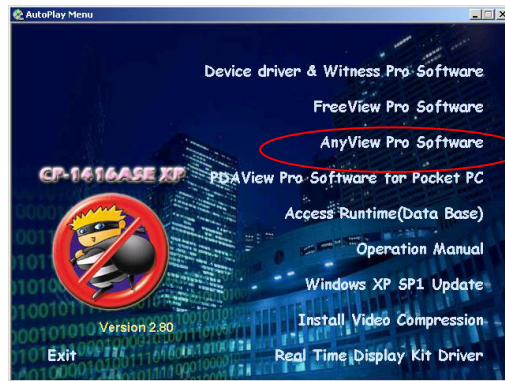


Fig. 2-4-3.1 Installation Menu

Step2. Select an installation language and click the “OK” button to continue.



Fig. 2-4-3.2 Choose a setup language

Step3. Click the “Next” button to continue.

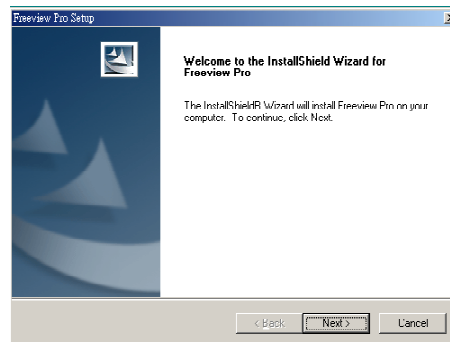


Fig. 2-4-3.3 Installation start-up

Step4. Click the **“Browser”** button to change the installation directory, or directly click the **“Next”** button to continue.

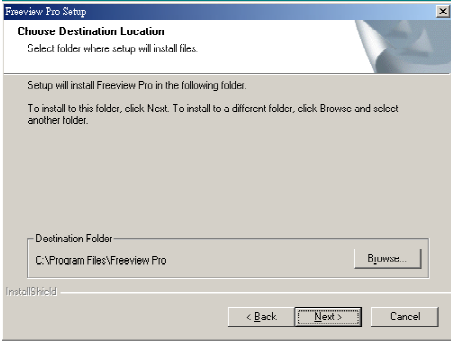


Fig. 2-4-3.4 Select a installation directory

Step5. Click the **“Finish”** button to complete.

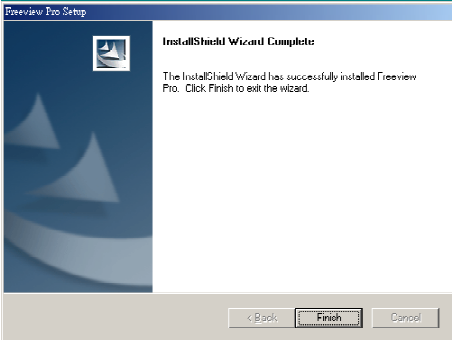


Fig. 2-4-3.5 Finish the installation

2-4-4. PDAView Pro Installation Procedures (PDA & Smart Phone)

To install the PDAView Pro program into a PDA or Smart Phone, please follow the installation steps below:

- 1.) Plug your PDA or Smart Phone via USB or Com port to a PC installed with Microsoft ActiveSync.
- 2.) Run Microsoft ActiveSync in the connected PC and make sure both the PDA and PC are synchronized.
- 3.) Insert our CD into the CD-ROM drive of the PC and run “**Install.exe**“ in the CD-ROM root directory.
- 4.) In the setup dialog box select “**PDAView Pro**” and click “**Next**”.
- 5.) Click **Brows** if you wish to specify another destination directory; otherwise click “**Next**” and follow the rest of the instruction to complete the installation.



The PDA must use the Pocket 2002 or 2003 and the Smart phone with Windows Mobile 5.0 or above Operation System when you running the PDAView program.

Chapter 3 System Configuration

3-1. Witness Pro Functions Overview

Since Witness Pro has been installed in Windows, user can find several icons in the Windows “Start” menu as showing in Fig 3-1-1.1 below.

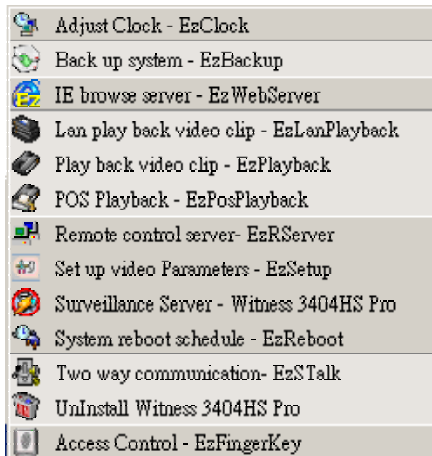









Fig. 3-1-1.1 Windows Start → Program → Witness XXX Pro

- **Function Descriptions:**

-  **Adjust Clock-EzClock:** To synchronize the time clock of DVRs with Standard Time Server.
-  **Back up system-EzBackup:** To back up the video clips in another storage device.
-  **IE browse server-EzWebServer:** To view the Local DVR Server via IE browser.
-  **LAN play back video clip-EzLanPlayback:** Provides remote client to playback video clips of Witness Pro DVR via LAN, such as playing back video clips at the Witness Pro DVR.
-  **Play back video clip-EzPlayback:** To playback video clips of Witness Pro DVR from any Windows base PC.
-  **POS Playback-EzPosPlayback:** Access the “Text record” under View Log to search for all the transaction lists within specific time frames. Click on the relevant transaction list of “Text record” and the video will playback the selected time record of this transaction text in conjunction with the video clip.
-  **Remote control server-EzRServer:** Allows remote client to control the Witness Pro DVR via

EzRClient program through Internet. The Remote client can set up the Witness Pro DVR from remote site such as operating at the local.



Set up video Parameters-EzSetup: Allows you set up system configuration for **Witness Pro**.



Surveillance Server-Witness series Pro: Main program, provide user live viewing, video recording, motion diction. ...etc. functions, and also be a video server to transfer the video stream to a remote user via PSTN, ISDN, LAN or Internet.



System reboot schedule-EzReboot: Provides user to set up system reboot schedule to keep system surveillanc routine.



Two ways communication-EzTalk: Real-time audios from designated locations are simultaneously transmitted to both the control center and designated DVR sites.



Uninstall Witness series Pro: This will remove **Witness Pro** program from the computer. It will not remove the device driver.



Access Control-EzFingerKey: To integrate with the Witness Pro, provide supervisor entry access control and management easily. Please refer to **FAC-500 FingerKey user manual for detail**.

3-2. Prevent System Crash

This chapter introduces several settings to prevent the Windows system crash when running the Witness Pro system. Please follow the instruction below to set up Windows running with Witness Pro in optimum performance status.

3-2-1. Power Management Setup

Please follow the steps below to set up Windows Power Management.

Step1. Click Windows “**Start**” menu → “**Settings**” → “**Control Panel**” and then select the “**Power Management**” icon.

Step2. Select the “**Power Schemes**” tab.

Step3. Change the Power Schemes to “**Always on**”; select “**Never**” to turn off hard disk and “**Never**” to turn off monitor.

Step4. Click “**Ok**” to complete the setup.

3-2-2. Windows File System Setup

Please follow the steps below to set up Windows File System.

- Step1.** Click Windows “Start” menu → “Settings” → “Control Panel” and then select “System” icon.
- Step2.** Select the “Advantage” tab, and press the “Setting” button in “Performance” section, then click “Optimum Performance”.
- Step3.** Click “Ok” to complete the setup.

3-2-3. Run “System reboot schedule” of the Witness Pro program

It is recommended to use “System reboot schedule” function of the Witness Pro program to keep Witness Pro system surveillance routine. Please follow the instruction below to complete this configuration.

- Step1.** Click Windows “Start” menu → “Programs” → “Witness series Pro” and then select “System reboot schedule – EzReboot”.

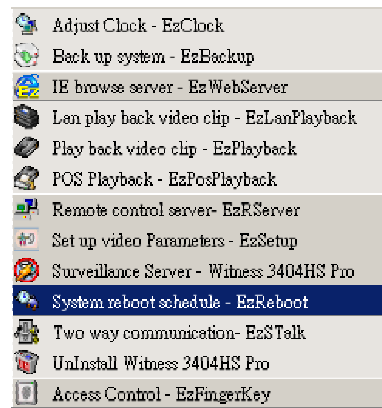


Fig. 3-2.3.1 System reboot schedule

Step2. Select if check “Enable auto run system” and “Enable reboot schedule”.

Function Description:

- a.) **Enable auto run system:** To auto run the System reboot schedule – EzReboot function when Windows start.
- b.) **Enable reboot schedule:** To reboot system by setting schedule.

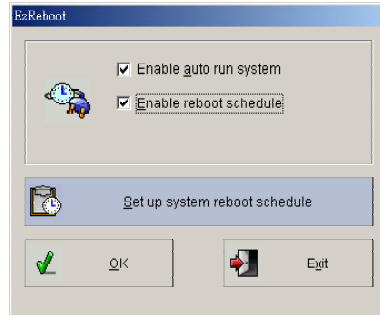


Fig.3-2-3.2 Enable reboot schedule

Step3. Click the “Set up system reboot schedule” button to set up the system reboot schedule.

Step4. Select reboot schedule type by choosing “Everyday”, “Every week” and “Special period”.

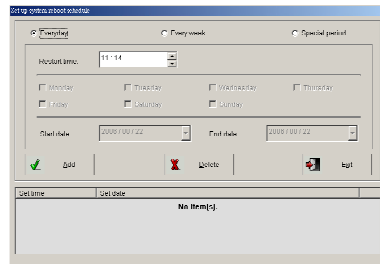


Fig.3-2-3.3 Set up schedule time

Step5. Set up reboot schedule of the choosing type, and press the “Add” button to add.

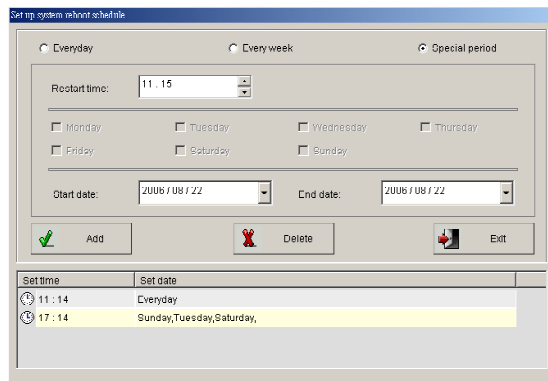

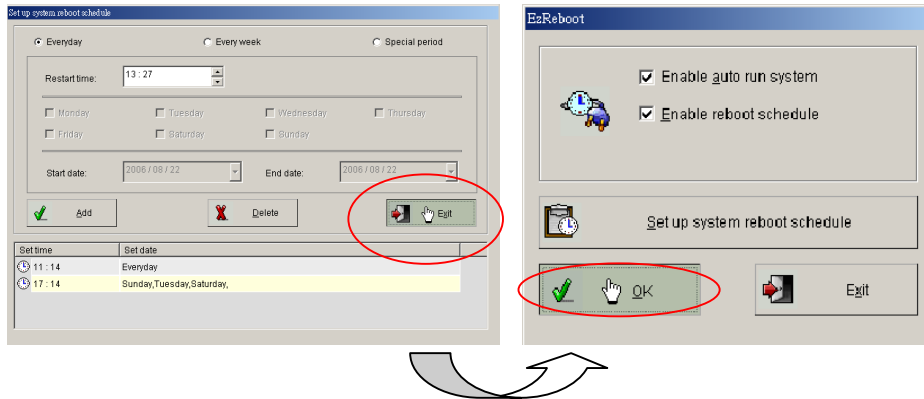


Fig.3-2-3.4 Add the reboot schedule

Step6. User can set up multiple reboot schedules for the Witness Pro system. When finish adding the schedule setting, press “Exit” button to exit the setting interface, then press “OK” button to start the system reboot schedule function. There will be a  icon in the Windows bottom right side system tray.



3-3. Witness Pro System Configuration

This chapter introduces the Witness Pro system configuration to make system perform in optimum condition. Please follow the instruction below to complete each setting.

3-3-1. Adjust Clock-EzClock

Sometimes the DVR's clock will become slower or faster than standard time. To adjust your DVR's time clock within a period, the "EzcClock" program allows to auto adjust the time clock of DVR with a Standard Time Server automatically via TCP/IP. This chapter will show how to auto adjust the time clock of DVR with a Standard Time Server.

- Follow the steps below to auto adjust the DVR's time clock.

Step1. Click "Start", choose "Programs", "Witness AS/ASE/DX/HS/RD/U Pro", then click "Adjust System Clock- EzcClock" and you should see below window Fig3-3-2.1.



Fig 3-3-2.1

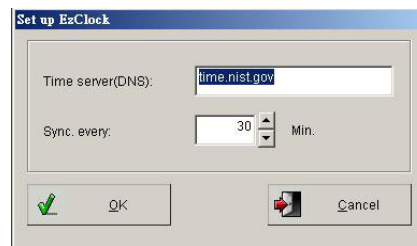



Fig 3-3-2.2

Step2. Entry the " Set up EzClock " icon (refer to Fig 3-3-2.1) to setup the entry the IP address (or DNS) which one you want to check the time clock or use the default Standard Time Server.

Step3. Entry the period to adjust clock period from "Sync. Every "box.

Step4. Enable "Auto Run system "and "OK "icon to complete the setting.

3-3-2. Set up video Parameter-EzSetup

To change the default parameter settings, please go to the path: Windows “Start” → “Programs” → “Witness AS/ASE/DX/HS/RD Pro”, and click the  icon to display the parameter setup interface. According to the different models of the @Witness XP DVR board, the “Set up video parameters” interface may be changed. Please base on your @Witness XP DVR board model to refer to the instruction below for setting.

- **Function description of the “Set up video parameters” interface:**

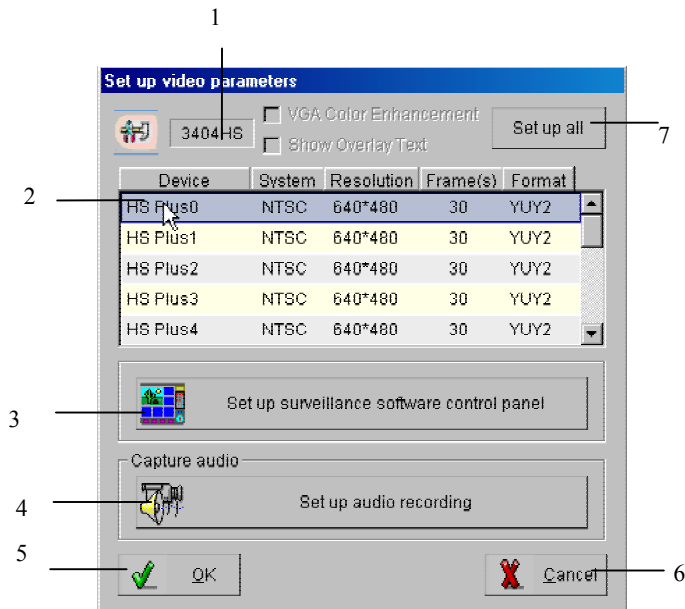


Fig. 3-3-3.1 Setup Video Parameter - EzSetup

- 1. Model Name Display:** Display the DVR board model name.
- 2. Cameras Display Window:** List cameras for setting “frame rate” and “device enable/disable”, user can simply double click the mouse left button on selected camera to change the setting. The number “0” camera can set up all video system type (e.g. NTSC/PAL) and video resolution.
- 3. Set up surveillance software control panel:** To set the video control panel of the main program or playback program on the right side or left side in the “surveillance server”.

■ Left side video control panel



■ Right side video control panel



Fig 3-3-3.2



Fig 3-3-3.3

4. Set up audio recording (From sound card):

Use mouse to double click on the “Set up audio recording” icon as shown on right site. Follow the instructions below to set up audio recording for single camera.

- a. Select your sound card from the “Audio device” of drop down menu as the window above.
 - b. Select the port you plugged the audio into at the drop down menu “Audio source”.
 - c. Connect the audio cable to your sound card’s Microphone in or Line in of the PC.
 - d. Select the camera you want to record the audio from drop down menu “Recording Channel”.
- Click “OK” to complete the setting.



The 2 Vp-p output level of microphone will be better for the audio recording application.

- For CP-5404HS /5408ASE/5416ASE/1908ASE /1916ASE/2160RD/3160RD/2320RD -A
DVR board model first camera setup interface:

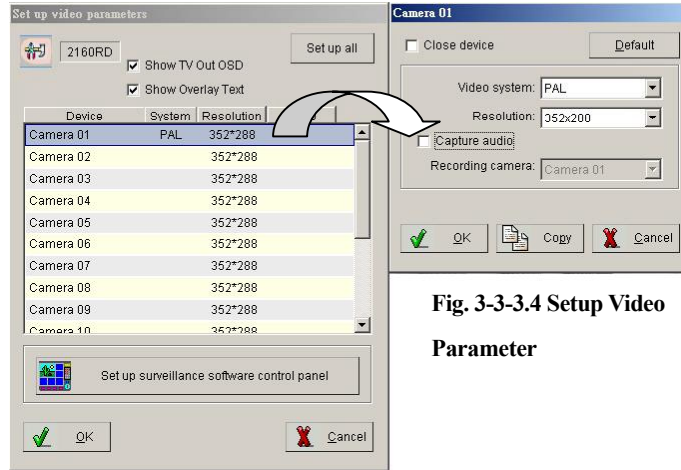


Fig. 3-3-3.4 Setup Video Parameter

- For CP-2400AS /1932ASE /3320RD-A DVR board model first camera setup interface:

Double the mouse left button on selected camera

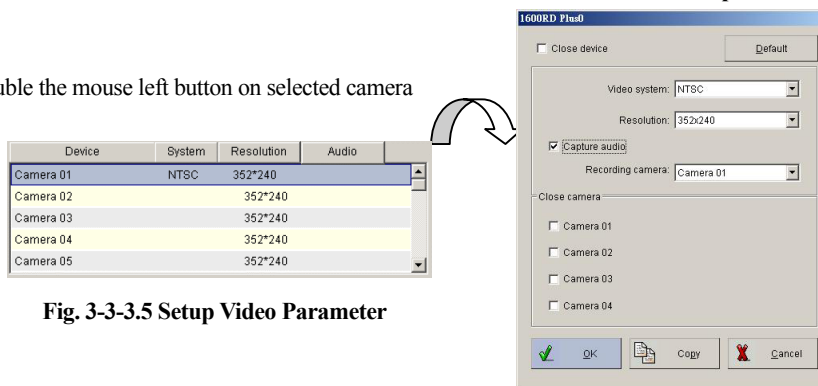


Fig. 3-3-3.5 Setup Video Parameter

Use mouse to double-click on the device to modify its cameras, window will show as **Fig. 3-3-3.4** and **Fig. 3-3-3.5** and the functions description as below.

Show TV Out OSD It will make the split-screen to show the text on TV. The text of OSD will display on the VGA monitor also.

Show Overlay Text It will make the live video display to show the location of camera.

Close Device will turn off the selected device if all cameras connecting to the device is not in use.

Close Camera will turn off the selected camera to lower down the system loading. Use this function when the camera is not in use.

Default will change the parameters to their original settings.

Video system will toggle between NTSC/PAL.

Resolution You can select the resolution for preview and recording. There are three options – 704 x 480, 704 x 240 and 352 x 240 (NTSC); 704 x 576, 704 x 288 and 352 x 288 (PAL)

Capture audio will enable cameras with microphones to record sound. Each device driver can select one channel audio recording from “**Recording camera**” bar. So maximum can record 16 audio channels on each DVR system.

Copy will copy the parameters from another camera to the current one.

OK will accept settings.

Cancel will discard changes.



Please enable “**Close camera**” function, if the video port does not connect the camera.

5. “**OK**” **button**: To confirm the setting and exit “Set up video parameters” interface.
6. “**Cancel**” **button**: To exit the “Set up video parameters” interface without saving changing.
7. “**Set up all**” **button**: To set up all cameras’ video system type, resolution and frame rate.

Chapter 4 Witness Pro System Operation

This chapter describes the functions operation of the Witness Pro program

4-1. Surveillance Server Program
















Surveillance Server-Witness (AS/ASE/DX/HS/RD/U) Pro is the primary program of the Witness surveillance system, it provides user total CCTV security solutions which include live viewing, video recording, motion diction, multiple ways emergency notification to user, E-map for easy entire site management, events list, schedule recording, remote client surveillance connection support via WAN/LAN/Internet/Intranet multiple connections types and video clips playback functions...etc. Please follow the instruction below for more detail.

- **Start Surveillance Server-Witness (AS/ASE/DX/HS/RD/U) Pro Program:**

Please click the Windows “Start” menu → “Programs” → Witness (series AS/ASE/DX/HS/RD/U) Pro, and click the Surveillance Server-Witness (series AS/ASE/DX/HS/RD/U) Pro to start the program.



● **Surveillance Server Functions Description:**

1.  **Login/Logout button:** If it is the first time to start this program, user needs to login the name and password to access this program.
2.  **Exit button:** To exit this program.
3.  **Minimize button:** To minimize this program.
4. **Display Screen:** To display channels' video. Double click on a video channel to enlarge the video image, and click again to back to original display mode. Click right of Mouse on a video channel to change the video color parameter or hidden camera.
5.  **Camera configuration:** To set up the DVR settings (e.g. recording function, alarm system, motion detection etc.) for cameras.
6.  **Playback video clips/ Sync Playback/ Insert text playback:** To open the “Playback video clips”, “Sync playback video clips” or “Insert text Playback” playback function.
7.  **Network configuration:** To set up DVR system network configuration.
8.  **System configuration/EzTools:** To select the “System configuration” or “EzTools” function.
9.  **Set up privileges:** To manage the account of the DVR access authority.
10.  **View log:** To view, save and clean the different kind of system logs.
11.  **Set up I/O port:** To set up DVR peripheral device for system integration.
12.  **Stop sound alarm:** To stop the alarm when it is sounding.
13.  **Storage device configuration:** To set up DVR image storage configuration.
14.  **Toggle switch:** To provide user to select Real time display and Recording mode.
15. **Video control panel:** Provide DVR display control, recording, PTZ camera controlling, TV out and eMap functions.
16.  or “ESC” **Hide tool bar:** Pressing  or “ESC” key on keyboard will hide the tool

bar of main screen until “ESC” is pressed again. Click “Alt +F4 “ to enable the Login tab if you log out and enable the “ Hide tool bar “ function at a time.

How to change the video parameter?

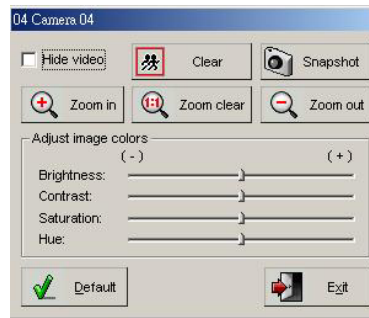
- **Video Tools:** Right click your mouse on the video screen that you could modify the parameters of image.


- **Hide video** makes the given camera’s images on your monitor disappear;

however all of its other functions keep working. For example, if you select this, the chosen camera’s window section in Witness XP will turn blank, but the camera itself can still continue to record.

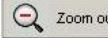
Clear will clear the red border. Upon detection, the image from the camera that detected it will pop up. Upon multiple detections, the newest detection will pop up. However, you will not lose track of which cameras detected movement, because once you minimize the popped up window, you will see that every camera that detected movement will have a red border. Once you finish viewing, you can clear the red border by right clicking on the appropriate camera and hitting the “Clear”.

Adjust Image Colors Right click on the video screen, and you will be able to adjust brightness, contrast, saturation, hue and zoom.



: This function is designed to zoom in (amplify) the video display image.

After you have screen zoomed in, you can navigate the viewing area by holding down the left mouse key on the screen.

: This function is designed to zoom out (shrink) the display image. The video image zooms out at each click of the icon.



: This function is designed to return the image to its original and default magnification.



Default: Pressing this will change the parameters to their default settings.



Exit: Exits the Video Tools setting window.



: Takes a picture of the current screen and saves the image in .bmp format.

Click icons on the bottom of picture taken by snapshot, will find more functions.



: Allow user to adjust the contrast of the picture taken by snapshot.



: Allow user to change the picture taken by snapshot to be gray.



: Allow user to change the picture taken by snapshot to be its original color.




: Allow user to save the picture taken by snapshot in Bmp or JPEG format.



: Allow user to print out the picture taken by snapshot.



4-1-1. Start to Login the Surveillance Server

To login, click the  button from the top-right corner of the Surveillance Server program. To logout the program, simply press the same button. The default login name and password are:

Login Name: root Password: 123

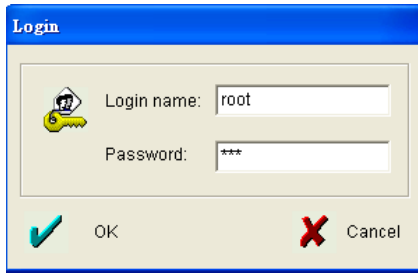


Fig 4-2-1.1 Login

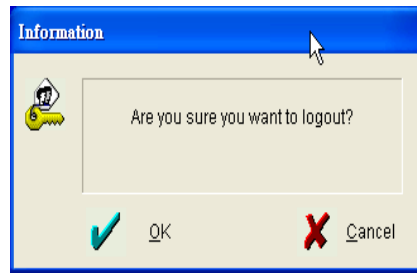



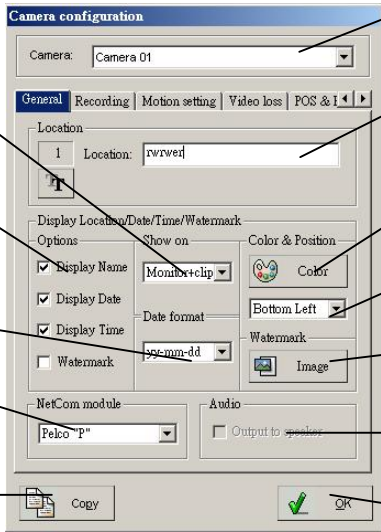
Fig 4-2-1.2 Logout

4-1-2. Camera Configuration

To set up camera parameter, please click the  icon on the bottom side of the Surveillance Server program screen, and follow the instruction below.

4-1-2-1. General

The section of the “General” tab on the top side Camera configuration dialog is to set up camera information display (e.g. Camera Name, Display Date, Display Time, Watermark and display words’ color etc.) on the screen. To enter this setup section, simply press the “General” tab on the top of the “Camera configuration” setup interface.



The screenshot shows the "Camera configuration" dialog box with the "General" tab selected. The dialog is divided into several sections: "Camera" (Camera 01), "Location" (Location: rrvrved), "Display Location/Date/Time/Watermark" (Options: Display Name, Display Date, Display Time, Watermark; Show on: Bottom Left; Color & Position: Color, Watermark; Image), "NetCom module" (Pelco P), and "Audio" (Output to speakers). Arrows point from various elements to descriptive text:

- To select if display camera information in playback clips or live & playback clips. (Points to the "Show on" dropdown menu)
- Options section for camera information display selection. (Points to the "Options" checkboxes)
- Camera date format display selection. (Points to the "Date format" dropdown)
- PTZ camera control protocol selection. (Points to the "NetCom module" dropdown)
- To duplicate another camera setting to current camera. (Points to the "Copy" button)
- Camera selection (Points to the "Camera" dropdown)
- Camera location description (Points to the "Location" text box)
- Set up color of the display words. (Points to the "Color" button)
- Set up the display words position. (Points to the "Bottom Left" dropdown)
- Change the Watermark image. (Points to the "Image" button)
- Audio output for listen (Points to the "Output to speakers" checkbox)
- Confirm the setting. (Points to the "OK" button)

4-1-2-2. Recording

This section is to set DVR video and audio recording functions. To enter this setting interface, simply click the “Recording” tab on the top side of the “Camera configuration”.

■ To set if enable the recording schedule.

■ To set if enable the audio recording capability. This function only available for audio recording model.

■ To setup the saving video stream by setting minutes for video playback clips.

■ To duplicate another camera setting to the current camera.

■ Camera selection

■ Click to set up recording schedule

■ To setup the instant recording rate.

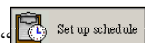
■ Confirm the setting.

- To verify if the system actual recording frame rate is less than the “Check frame rate” setting, or the system will restart the DVR program.

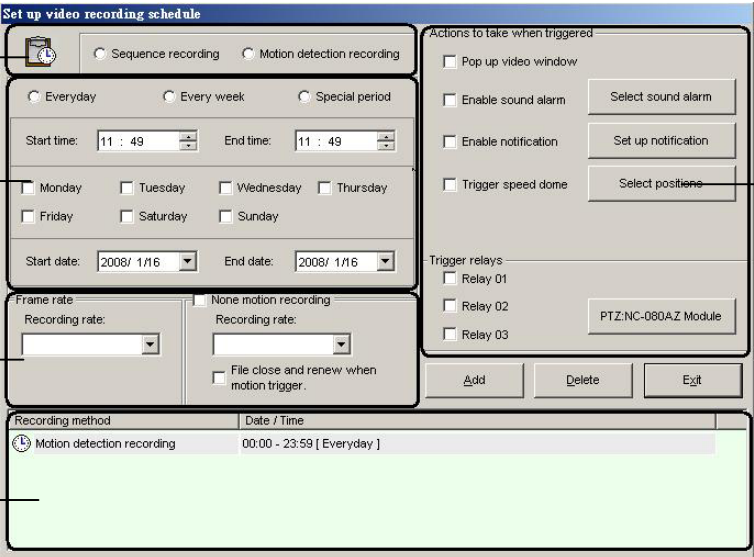
If you setup the Check frame function, when system abnormal will reboot system (Restart Witness program). The condition of system abnormal such as the file size of video clip is 0 Byte, can not create a new video file; recording rate less than setting value, can not delete oldest video clips, HDD failed and DVR card do not send out the video signal but camera is workable.

4-1-2-2-1. Set up the recording schedule

This function is to set up the DVR recording schedules and notification. Please click the




icon on the “Recording” setting interface to enter the “Set up schedule” interface.



The screenshot shows the 'Set up video recording schedule' window. It is divided into several sections:

- 1**: Points to the 'Set up schedule' icon in the top left corner.
- 2**: Points to the recording mode selection area, which includes radio buttons for 'Sequence recording' and 'Motion detection recording', and sub-options for 'Everyday', 'Every week', and 'Special period'. Below these are fields for 'Start time' and 'End time' (both set to 11:49) and checkboxes for days of the week (Monday through Sunday).
- 3**: Points to the recording rate settings, including 'Frame rate' and 'Recording rate' dropdown menus, and a 'None motion recording' section with its own 'Recording rate' dropdown and a checkbox for 'File close and renew when motion trigger'.
- 4**: Points to the table at the bottom of the window showing the current recording schedule.
- 5**: Points to the 'Actions to take when triggered' section, which includes checkboxes for 'Pop up video window', 'Enable sound alarm', 'Enable notification', and 'Trigger speed dome', along with buttons for 'Select sound alarm', 'Set up notification', and 'Select position'. It also includes 'Trigger relays' (Relay 01, 02, 03) and a 'PTZ:NC-080AZ Module' button.

Recording method	Date / Time
 Motion detection recording	00:00 - 23:59 [Everyday]

■ Sections Descriptions:

Section 1:

- **Sequence recording:** To set system in sequence recording mode.
- **Motion detection recording:** To set system in motion detection recording mode. To available the “None motion recording” and the “Action to take when triggered” setting.

Section 2:

- **Everyday:** To set DVR video recording schedule to be everyday.
- **Every week:** To set DVR video recording schedule to be weekly.
- **Special period:** To set DVR to record video in a specific period time.
- **Start time & End time:** To set DVR recording schedule start time and stop time. However, to set DVR to be un-stop recording for 24 hours a day, please set start time to

be 00:00 and the stop time to be 23:59.



If the time set runs over two days, set them separately. For example if your recording time is from 5:00pm to 7:30am of next day, you should set it as two segments: 7:00 to 23:59 and 00:00 to 7:30. When you set schedules of sequential recording and motion detection recording, please do not schedule overlapping periods. Overlapped periods will be executed improperly. Ex. Sequential recording is scheduled between 3:00 and 5:00 and motion detection recording is from 4:00 to 7:00. Because of overlap, Witness XP will only execute sequential recording from 4:00 to 5:00 and motion detection from 5:01 to 7:00.

Section 3:

- **Frame rate:** To set the recording frame rate for the “Sequence recording” or “Motion detection recording”.



Same as preview: To set recording frame rate as same as the live view frame rate.

- **None motion recording:** This function is to set a recording frame rate while motion detection is enabled but not triggered. The DVR will record the video according to the setting frame rate, but if the motion has been triggered, the DVR will start the motion detection recording setting frame rate. (This function just enable when you use the Motion detection recording)
- **File close and renew when motion detection:**
If user enables this function, when the motion detection has been triggered, the system will close the None motion-recording file, and start a new file for motion recording. Enable this function to provide user easily search the motion issues in then evens list log. However, if disable this function, user can review the video clips from the begging to see how is the motion triggered, but the motion even dose not list in the evens list log.

Section 4:

- **Recording schedule listing window:** To list the setting recording schedule.

Section 5:

Action to take when triggered: This section is to set up DVR action when the setting motion has been triggered. Please refer to the introduction below for setting detail.

- **Pop up video window:** To set if DVR pops up (enlarge) the window when the motion is detected.
- **Enable sound alarm:** To set if DVR sound an alarm when the motion detection is triggered.

- To play alarm sound for testing
- To select an audio file for alarm sound.
- To save the setting and exit.

- To stop the sound playing.
- To record a sound via connected microphone.
- To exit without saving.

- **Enable notification:** To set if send a notification to user by phone, pager, e-mail or sending the live image to remote “PC FreeView Pro” program when the motion detection is triggered. **Set up notification:**

1.) Notify by Phone Call: When motion detection is activated, the DVR system will dial the notification phone calls automatically by the listed phone numbers. Please follow the step below to set up the Phone Call notification.

Step 1: Select **Notify by “Phone call”**.

Step 2: Type in the phone number.

Step 3: Press the “Select sound alarm” button to set the alarm sound file.

Step 4: Click the “**Add**” button and the setting information will be saved and list in the number below dialog box.

Step 5: Repeat **step 2 to 4** to add another **Phone call** notification.



1. If you wish to make a Wave file for the “Phone call” notification, and the file format must be 8000Hz, 16-bit, Mono.
2. Each phone notification could be set its unique warning audio, and the phone connection will be disconnected after 1 minute.
3. User must to use I-View specify Modem for phone call notification.
4. If there are extension numbers in the telephone system, use one or several commas (,) to separate the phone number and the extension number. The number of commas required depends on the system, so test it in advance.

2.) Notify by Pager Call: When motion detection is activated, the DVR system will automatically notify the listed pager numbers. Please follow the step below to set up the pager Call notification.

Step 1: Select **Notify by “Pager call”**.

Step 2: Type in the pager number.

Step 3: Type in the Pre-code or code number

Call	Number / IP address	Get
No item(s).		

Step 4: Type in the message.

Step 5: Click the “Add” button and the setting information will be saved and list the number in below dialog box.

Step 6: Repeat step 2 to 5 to add another Pager call notification.



1. Each phone notification could be set its unique warning audio, and the phone connection will be disconnected after 1 minute.
2. User must to use I-View specify Modem for phone call notification.
3. If there are extension numbers in the telephone system, use one or several commas (,) to separate the phone number and the extension number. The number of commas required depends on the system, so test it in advance.

3.) Connect to Remote Site: This function is to send a live view image of the motion triggered channel to a remote network connected PC's FreeView Pro program (need to be open). Please follow the steps below to set up this function.

Step 1: Select Notify by “Connect to remote site”.

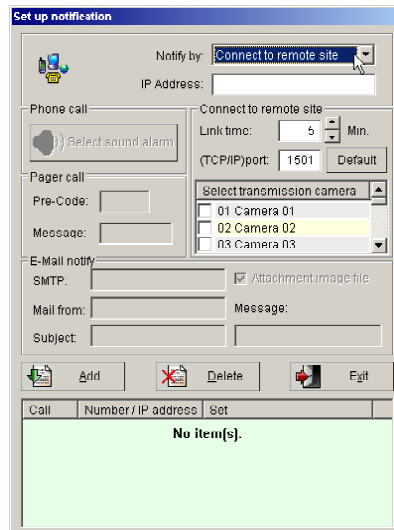
Step 2: Type the remote PC's IP address or the DNS address.

Step 3: Type the minutes in “Link time” section for remote PC connection time.

Step 4: Type the TCP/IP port number (Default is 1501) for the connection.

Step 5: Select cameras to send the live view images.

Step 6: Click the “Add” button and the setting information will be saved and list in the below dialog box.



Step 7: Repeat **step 2** to **6** to add another **Connect to Remote Site** notification.



The TCP/IP port numbers need to be same as the system configuration's TCP/IP port number of the remote PC's FreeView Pro program, or the connection will be fail. Please open the port number for DVR from Router when you want to have the Internet access. The detail setting of Router, please ask your local device provider.

4.) E-Mail Notify: When motion detection is activated, the system will send the e-mail message to the user's e-mail box from e-mail list in the dialog box automatically. Please follow the steps below to set up the e-mail notification.

Step 1: In "Notify by:" section, please select "E-Mail Notify" selection.

Step 2: Type the receiving email address in the "Mail to:" section.

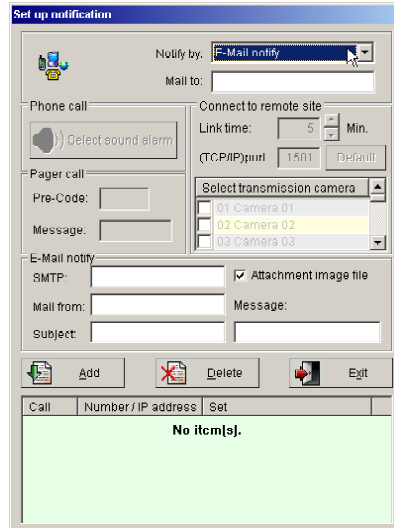
Step 3: Type the **SMTP sever address** for the DVR to send the e-mail message.

Step 4: Type the sending e-mail address in "Mail from:" section.

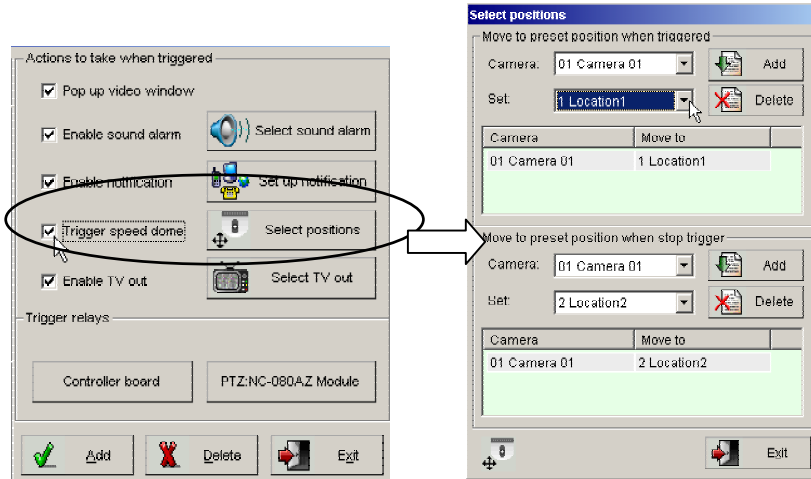
Step 5: Type the notifying word in "Subject:" and "Message:" section.

Step 6: Click the "Add" button and the setting information will be saved and list in the below dialog box.

Step 7: Repeat **step 2** to **6** to add another **E-Mail** notification.

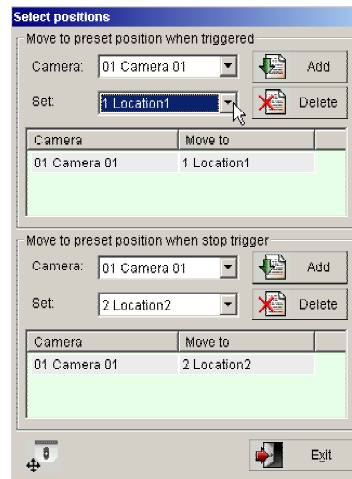


- Enable trigger speed dome:** This function is to set the connected speed dome to move to the multiple preset positions when the motion detection is triggered. User needs to install a speed dome to be able to enable this function. About the speed dome installing detail please refer to the speed dome controlling card user manual (e.g. NC-3213 USB card user manual), also please refer to **Chapter 3-2-10 Control Panel** for setting the PTZ camera preset position.



Please follow the steps below to set the “Move to preset to position when triggered” section:

- Step 1.** Select a specific speed dome camera from the top “camera” selection box in the “Move to preset position when triggered” section.
- Step 2.** Select a preset position in the “Set” section for the connected speed dome moving to the selected position when the motion detection is triggered;



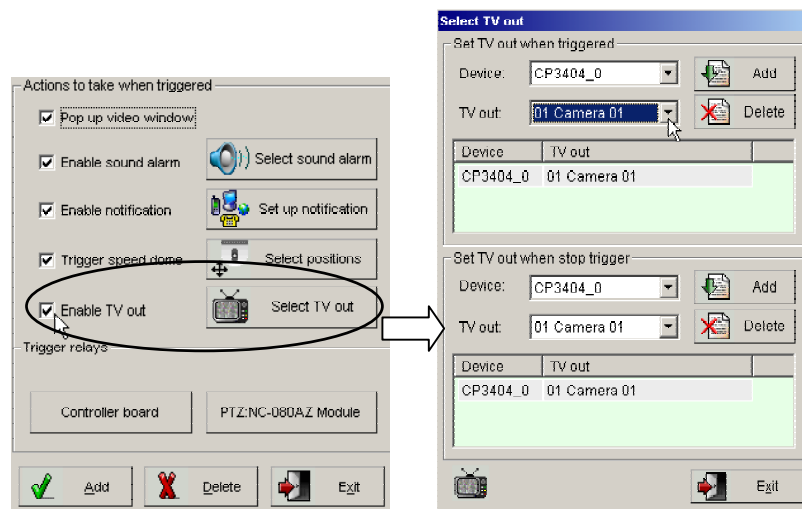
please refer to the **Chapter 3-2-10 Control Panel** for setting the PTZ camera preset position.

Step 3. Click the **“Add”** button from the right side of the camera selection box to save the settings.

Step 4. Repeat **1~3** to add one more preset position.

To set the section of **“Move to preset position when stop trigger”**, please use the same way of the **“Move to preset position when triggered”** section setting.

- **Enable TV out:** While user connects a TV to the DVR cards, user can enable this function to output a video signal to TV when the motion detection is triggered.



Please follow the steps below to set up the “Set TV out when triggered” section:

Step1: Select the DVR card in the “Device” section.

Step2: Select the camera in the “TV out” section.

Step3: Press the “Add” button to save the setting.

Step4: To set another “TV out” setting, please repeat from step1 to step3.

To “Set TV out when stop trigger”, please use the same way of the “Set TV out when

triggered” section setting.

- **Trigger relay:** You can select the specific trigger relays to use and select from Relay 01 to Relay 06. You can also trigger the relays of each NC-080AZ module. The relay will be triggered when motion is detected.

4-1-2-3. Motion Setting

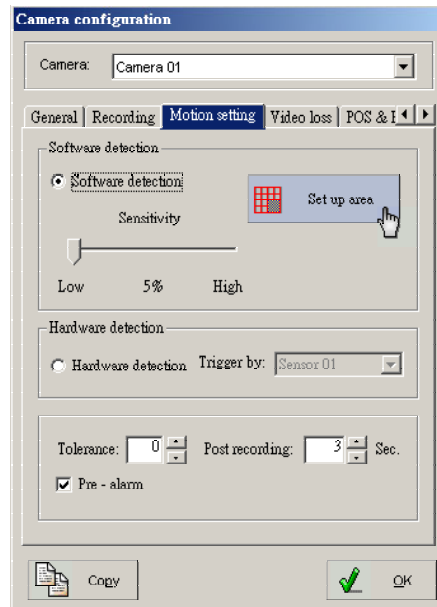
This setting is to trigger the DVR to start recording when objects are moving in a specific area. To set this function, please click on the **“Motion setting”** tab from the **“Camera Configuration”**. DVR provides user **“Software detection”** and **“Hardware detection”** for security protection, to enable the **“Hardware detection”** function, the DVR requires installing the sensor card.

Before setting up detection, make sure that **“Camera configuration”** → **“Recording”** → **“Set up Schedule”** has **“Motion detection recording”** selected, and also the

correct schedule selected, otherwise motion may not be detected. Also, make sure that **“Camera configuration”** → **“Recording”** has **“Enable Recording Schedule”** enabled. You can confirm that you’ve properly set up the camera by inspecting the camera button number on the right toolbar – it should now be greenish (waiting). It will turn red (recording) when motion is detected.

1.) Software detection

Selecting software detection will save you the cost of installing extra devices, but will cause false alarms more easily.



- 2.) **Sensitivity of motion detection** – You can adjust the sensitivity of the motion detection. Slide the bar to the right to increase sensitivity or left to decrease sensitivity.



The value for sensitivity should be based on unavoidable movement in the area of the camera. For example, if you have a fan blowing, a banner may be moving slightly. Adjusting the sensitivity properly will filter out this movement.

- 3.) **Set up area** –Use this button to set specific areas for motion detection.

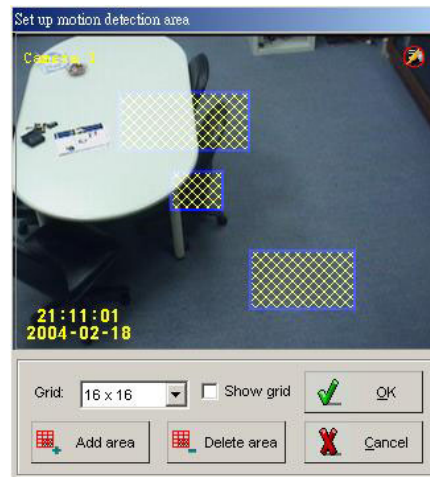
- **To add a specific area for detection, please follow the setting steps below:**

Step1: Press mouse left button and hold to move mouse for selecting a specific area on the screen.

Step2: Press “Add area” button to add the area diction.

Step3: To set more another area, please repeat the step1 to step2.

Step4: Press the “OK” button to complete the areas setting.



- **To delete a setting detection area, please follow the setting steps below:**

Step1: Select a setting detection area by mouse right button.

Step2: Press the “Delete area” to delete.

Step3: To delete another setting detection area, please repeat step1 to step2.

Step4: Press the “OK” button to complete the areas setting.



If enable the “Motion detection recording” in the “Set up schedule” section of the “Recording” tap, but not specific a detection area in the “Set up area” section of the “Motion setting” tab,

the full area will be the default setting.

➤ **Hardware detection (Optional)**

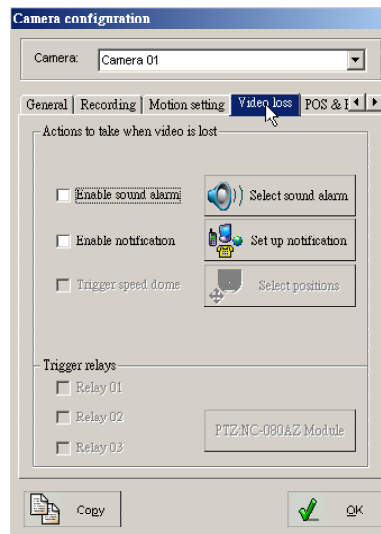
You can also select hardware detection. After enabling “**Hardware detection**”, select the specific sensor to use from available port. You need to connect the sensor device to the port of “**Sensor in**” of “**NetCom module**”. When the sensor is triggered, it will start to record and trigger the port of relay output.

- **Tolerance** – This function is to prevent false alarms by defining acceptable movement. If the tolerance is set 2, video screen must change continuously 3 times before the DVR recording.
- **Post recording** – This function sets the time to continue recording after motion is no longer detected; the video will be saved as a file. If the time between one motion detection period and a new motion detection period is less than the value in this field, the two recordings will be combined. It will reduce the motion detection video file and notification.
- **Pre-alarm**
If user runs recording by motion detection and enable “**Pre-alarm**”, the system can record videos at last 1-30 seconds (Base on the recording rate) before event trigger base on the system RAM buffer.

4-1-2-4. Video Loss

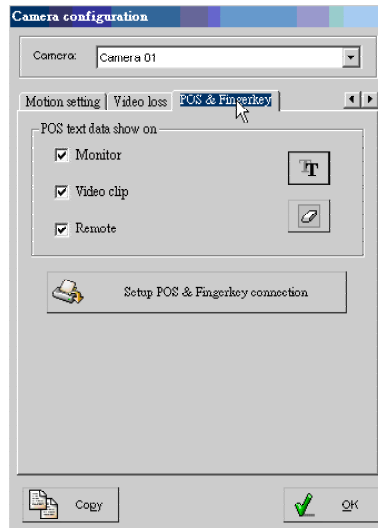
This function is to trigger the DVR to send a notification when video losses occur. Please click on the “Video Loss” tab and follow the instructions below for the setting.



- **Enable sound alarm** –To set an audio warning when the video loss occurs.
- **Enable notification** -- Each camera can have its own unique notification, and you can set up different ways to notify someone. Please refer to page 41 to 44 for the notification setting.
- **Trigger speed dome** –This function is to set the connected speed dome to move to the multiple preset positions when the video loss occurs. Please refer to page 45 to 46 for the detail of the “Select position” section setting.
- **Trigger relays** – To trigger relays when the video loss occur.



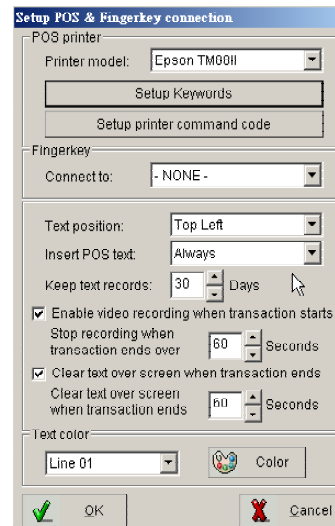
4-1-2-5. POS & FingerKey (Optional)

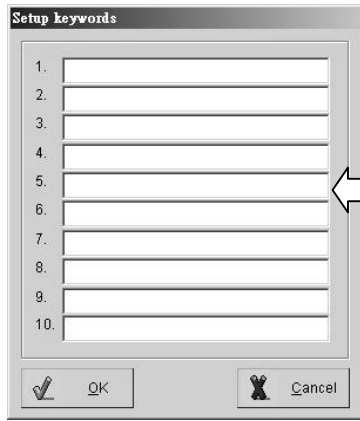
This function provides POS and Fingerkey text to display on the screen for specific video clip playback searching easily. After completing the hardware installation of POS text inserter system and the Fingerkey, please press “POS & Fingerkey” tab from the top of the “Camera configuration” setting and follow the instructions below to setup the program.



- **Font:** Click  icon to specify the font size of text to past on the video clips.
- **Delete:** Click  icon to delete the text on the.
- **POS text data show on:** Enable/disable **Monitor**, **Video clips** and **Remote** to display the POS text on the connected monitor, video clips or remote PC.

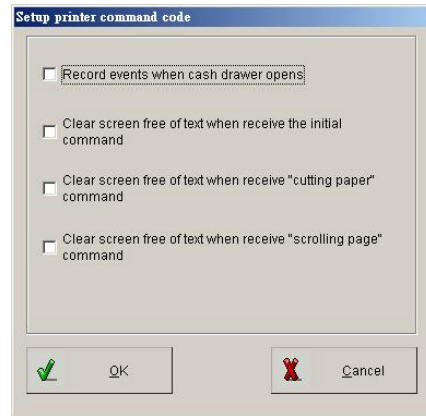
- **Setup POS & FingerKey connection**
- **Printer model:** Select printer model, which is to be used with your POS system.
- **Setup keywords:** Allows you to setup Keywords for searching video clips.





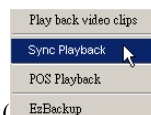
Please type in the specific keywords in 1 to 10 column, and press “OK” button for saving the setting.



- **Setup the printer command code:** The DVR is able to process certain functions after receiving the printer command code, such as recording with the event of opening cash draw.



- **Fingerkey:** To select a connected fingerprint access controller to capture the Fingerkey access record text on the video clips.
- **Text position:** To change the display position of text by working on the column position.
- **Insert POS text:** Determine the status of inserted text.
- **Keep text records:** Setup the text keeping period.
- **Enable video recording when transaction starts:** This enables video recording once the sale starts and specifies the time period of video recording once the sale stops
- **Clear text over screen when transaction ends:** This would clear/clean up the text over the screen after the specified time period when sale stops.

4-1-3. EzSyncPlayback



Clicking the  icon on the tool bar and select the “EzSyncPlayback” () to display the “EzSyncPlayback” interface for searching video clips.

● EzSyncPlayback Overview



● EzSyncPlayback Function Description:

1. **Split screen display modes section:** To select the split screen display mode
2. **Camera selection of the video clips:** To select the playback cameras of the selected video clips folder.
3. **The video clips deletion:** To delete the video clips from the hard drive.
4. **Video streams searching calendar:** Provide user to search the video streams of the video clips by date, the red color of the dates contain recorded video data.

5. **Cameras switch:** Click the “Up” and “Down” buttons to display the video stream of the cameras.
6. **Playback toolbar:** Provide powerful functions for user to view and search the playback video clips.
7. **Video stream searching bar:**
 - ◆ **0~23 (Hours) selections:** To search the video stream data by hours.
 - ◆ **White/Gray color video stream blocks:** White color block indicates empty data, and gray color block indicates the block with video data.
 - ◆ **0~60 (Min) dragging bar:** To search the video steam data by minutes.
8. **Playback speed selection:** Provide user to select the playback speeds to searching easily.
9. **Video stream information:** To display the selected video steam information.
10. **Display screen:** To display the video.

● **EzSyncPlayback Toolbar Description:**



Play – Click this icon to play back videos.



Pause – Click this icon once to pause videos.



Play backward – Click to play video stream backward.



Stop – Click this icon to stop videos.



Previous frame – Jump to previous frame.



Next frame – Jump to next frame.



First frame – Jump to the first frame of video clip.



Last frame – Jump to the last frame of video clip.



Repeat playback – Click this icon once have the videos play back on repeat. Click once more to cancel repeat.



Zoom in – Click this icon to zoom in.



Zoom out – Click this icon to zoom out.



Original – Click this icon to go back original video size.



Video copy – This button will copy current video clip to a specific location for archiving.

User could enable/disable “Copy audio data”.



Delete video – Erase video play back file.



Navigation bar – This displays the current position of the video clip and allows users to move to different points within the clip. Left moves backward, right moves forward.



Snapshot – Click this icon to capture the video screen as a BMP or JPEG file.



Repeat – Click this icon once have the videos of all camera play back on repeat. Click once more to cancel repeat.



Resize – Click this icon to resize clip.



Next video – Jumps to the next video.



Previous video – Jumps to the previous video.







Decrease frame rate – Decreases the frame rate.



Normal frame rate – Adjusts frame rate back to normal.



Increase frame rate – Increases the frame rate.

Screen size can be adjusted by selecting different multiple displays. Click  to view full screen; click  to view videos in 352 x 288; click  to view videos in 176 x 144; click  to view videos in 160 x 120.




Quick search video: To list the information of all video clips for searching and playback.



Smart search video: To detect the change of the object in a selected region of a recorded video clip, and list the events on the right side window. Please follow the introduction below to perform this function:

Step 1: Playback video clips from event table of the View log directly:


Click the  icon on the toolbar of the

Main screen to display the “View log” dialog.

Step 2: Press the “**Motion detection**” tab to display the Motion detection events list.

Step 3: Search the video clips by date from the calendar.

Step 4: Double click the desired video clips from the event list to display the playback interface.

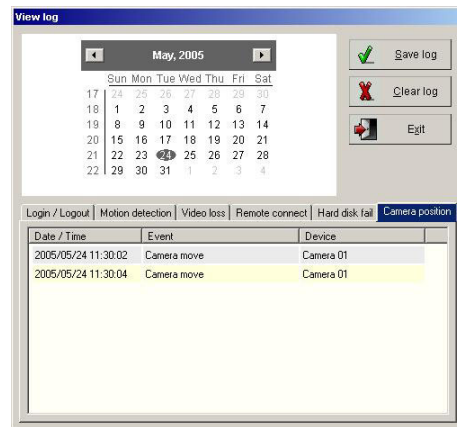
Step 5: Press the  icon on the playback toolbar to display the “Smart search” interface (as showing in **Fig 4-1-3.1**).

Step 6: Press and hold the mouse left button to select a specific searching area.

Step 7: Click the “**Add area**” button to add a highlighted region. User can use the same way to add more areas.

Step 8: Adjust the “**Sensitivity**”, the “**Speed**” and the “**Range**” function, and click the “**Search**” button to start the smart search function.

Step 9: As showing in **Fig 4-1-3.2**, the system will display all detected object change events on the rights list window, and use can select an event to playback.



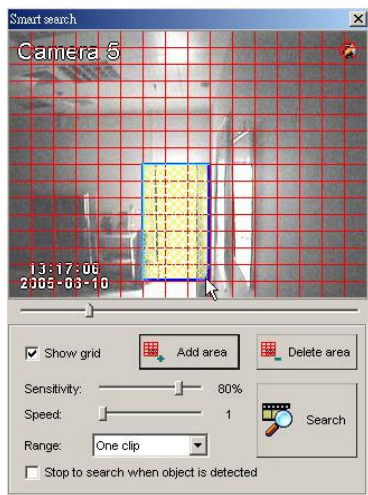


Fig 4-1-3.1




Fig 4-1-3.2

● **Function Description of the Smart Search:**

- **Sensitivity:** Please base on the selected region size to adjust the sensitivity function. If set too high of the sensitivity with the big selected search area, the system may display very tiny changed on the list, oppositely, if set too low of the sensitivity with the small search region, user may easily find nothing in the result.
- **Speed:** User can set the searching speed for the smart search function, higher degree represents faster speed; oppositely, lower degree represents slower speed.
- **Range:** Select "One video" or "All videos" for smart search function.
- **Stop to search when object is detected:** If enable this function, the system will stop the search process when object is detected.

● **EzSyncPlayback Basic Operation**



Please follow the instruction below to use this function:

- 1.) **Select the playback cameras:** Click the camera selection button () to display the “Search camera” dialog (As showing in Fig4-1-3.4), then select the desired cameras for playback, and click the “OK” button to complete.
- 2.) **Select the split screen display mode:** Select a split screen to display all cameras videos on the screen for searching easily.
- 3.) **Select a date from the calendar to search the video stream:** **Fig4-1-3.4**
Select the video stream from the calendar by the order of year, month and date.
- 4.) **Select display camera:** Click the “Up” and “Down” button to display the desired cameras’ video stream.
- 5.) **Click a desired gray color video stream block to play:** Click a desired gray color video stream block, and click the play icon to view.




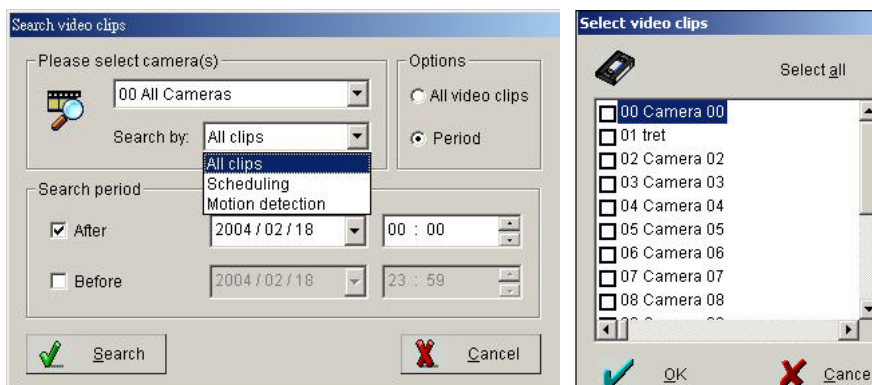
4-1-4. Playback Video Clips



Clicking the  icon on the tool bar and select the “Playback Video Clips” () to display the “Search video clips” interface for searching video clips.

- Follow the steps below to play back videos:

Step 1: Click  in the middle of right side to **search** for videos in database. And you will see below window.




Step 2: Select the camera. To play multiple videos, select “00 Camera 00”.

Step 3: Decide which recording way will be searched by “Options”.

Step 4: Select the recording period, then click **search** to find the clips among the selected time.

- Follow the steps below to remove a video from your archive:

Step 1: Click  on right screen to search for videos.

Step 2: Decide which recording way for deletion by “Options”.

Step 3: Select the videos that need to be removed.

Step 4: Select camera and time of the archived video.

Step 5: Click “Delete”.

- **Play back Archived Videos**

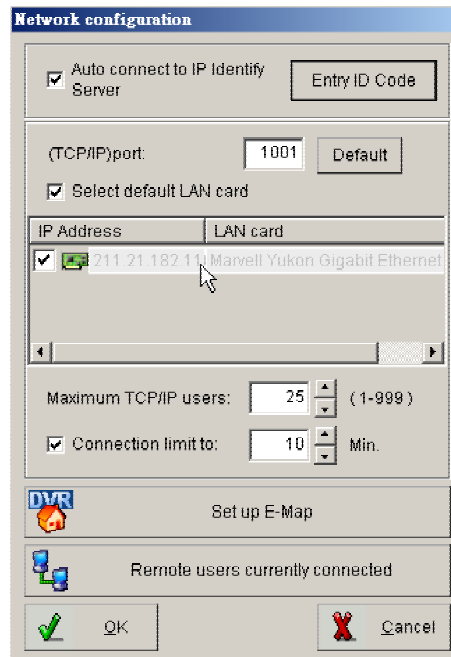
At the playback screen, you can play back videos. Camera number, camera location, time recorded, storage space, etc. will be displayed on the screen. Double click on any video screen to enlarge a single video. Move the mouse to any video screen to show video tool bar and information of single video (see below picture). Double click again to restore the previous viewing screen.



Please refer to the chapter 3-2-3-3 EzSyncPlayback for detail of the Playback toolbar functions.

4-1-5. Network Configuration

The main function of “**ID code**” is to solve possible problems with dynamic IP addresses connection. @-Witness series DVR contains a built-in IP address register function. If you enter the ID code into the system and enable the “**ID Identify Server**” icon, then when you start the Witness Pro, its built-in IP Identify capability allows others to connect directly to your Witness Pro system from their FreeView Pro software or IE browser via the Internet. In cases where you do not have a fixed IP address assigned to your DVR, the ID Code may use the DVR to redirect browsers to the DVR by announcing its current IP address to the IP Identify Server.




What is the IP Identify Service?

When the “**Auto connect to IP Identify Server**” option is enabled, the DVR sends a message to the central IP Identify Server per hour. This machine then knows what IP address your DVR has for the current session. When other users try to access your DVR, they are routed through the IP Identify Server to your DVR.

Do I need to use the IP Identify Service?

No. Ask your ISP provider about setting up a fixed IP number for your local account. Once you have a fixed IP number, disable the “**Auto connect to IP identify server**” option.

- Set ID code login by doing the following:
 - 1.) Click  in the Tool bar for network configuration.

- 2.) Enter an “**ID code**”.
- 3.) Enable “**Auto connect to IP identify server**”.
- 4.) Press “**OK**” to register your number to an IP identify server.

- Enable “**Connection limit to**”: DVR could set the duration time, which allows remote users connect to DVR.
- **Remote users currently connected**
Look up information of remote site currently connected.



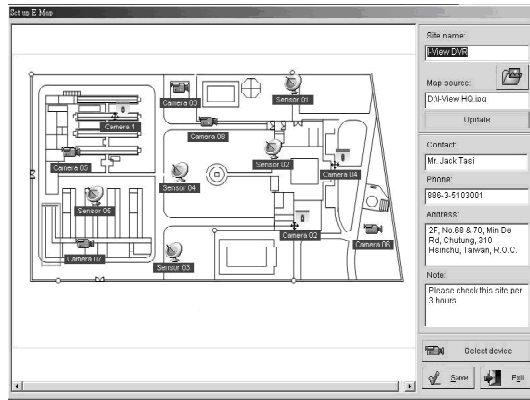
(For users that are protected by a Firewall)

If you are encountering either the error message “Cannot locate IP address” or the error message “Cannot identify server”, please contact the manufacturer of your Firewall and ask them how to create a PORT MAPPING. This will create a hole in your firewall. This Port Mapping will enable the remote user to access the Witness ASE/HS/RD series Pro from the remote site.

- **Set up E-Map**
Enter the information of DVR and insert a map to arrange the location of device. Once these devices are triggered, the information can be transferred to a remote site PC via modem or Internet. The triggered devices will be flashed on the map at the same time. Follow the instructions below to complete setup.
 - 1.) Click” **Set up E-Map** “icon and below picture will be shown.
 - 2.) Enter the DVR name into “**Site name** “.
 - 3.) Click “ **Map source** “ icon to browse the map file from DVR folder and then click “**Update**” icon after you find out the Map file. (The map file can be a BMP or JPG file.)
 - 4.) Enter the data into “ **Contact** “, “ **Phone** “, “ **Address** “ and “ **Note** “ tab. It will show the DVR information on the remote client PC when connecting.
 - 5.) Select the available devices for decorating on the DVR map from “**Select device**“.
 - 6.) Move to the device and then click and drag down to the suitable location with the left

mouse key. Repeat this process for another device.

- 7.) Click “Save “button to complete the setting.




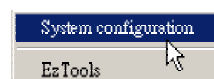
- **Remote user currently connected**

User can simply click this button to view the remote currently connected users' information.

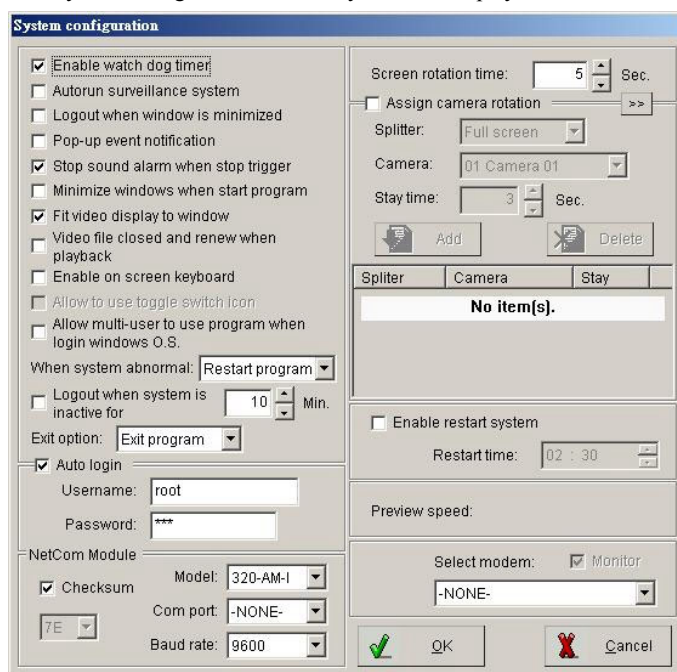
4-1-6. System Configuration/EzTools

- **System Configuration**

Click the  button, the system will display “System configuration” and “EzTools” selections. To set up the DVR system configuration,



simply click the “System configuration” and the system will display as below.



The screenshot shows the 'System configuration' dialog box with the following settings:

- Enable watch dog timer
- Autorun surveillance system
- Logout when window is minimized
- Pop-up event notification
- Stop sound alarm when stop trigger
- Minimize windows when start program
- Fit video display to window
- Video file closed and renew when playback
- Enable on screen keyboard
- Allow to use toggle switch icon
- Allow multi-user to use program when login windows O.S.
- When system abnormal: Restart program
- Logout when system is inactive for 10 Min.
- Exit option: Exit program
- Auto login
- Username: root
- Password: ***
- NetCom Module
- Checksum
- Model: 320-AM-I
- Com port: -NONE-
- Baud rate: 9600
- Screen rotation time: 5 Sec.
- Assign camera rotation
- Splitter: Full screen
- Camera: 01 Camera 01
- Stay time: 3 Sec.
- Buttons: Add, Delete
- Table:

Splitter	Camera	Stay
No item(s).		
- Enable restart system
- Restart time: 02 : 30
- Preview speed:
- Select modem: Monitor
- Modem: -NONE-
- Buttons: OK, Cancel

- **Function Description:**

Enable watch dog timer Enable this function will reboot DVR and be back to original setting if system shutdown caused by hardware or software problem.

Auto run surveillance system Enable this function will start Witness Pro when system starts up.

Logout when window is minimized Enable this function will logout **Witness Pro** when software is minimized or click “ESC” key of keyboard to hide the tool bar of Witness Pro program.

Pop-up event notification Enable this function will pop-up the event notification message on the

screen and the camera or sensor will be flashed on the eMap when the device is triggered.


Fit video display to window will enlarge the space taken by the video display window.

Stop sound alarm when stop trigger Enable this function, the sound alarm will stop when trigger stops.

Minimize window when start program To minimize the video window when enable Witness Surveillance Server program.

Video file closed and renew when playback Enable this function, the video file will close and renew a new one automatically when you click “Playback “icon. You can playback the current video file without waiting till the file close. Enable this function, it will cause the length of video file not same as your setting on some video files.

Enable On Screen Keyboard Enable this function, the On Screen Keyboard tool will display on the screen when you setup the Witness Pro program.

Allow to use toggle switch icon Enable this function, the toggle switch icon  Will be enable.

Auto multi-user to use program when login Windows O.S. Enable this function, it will allow the users to run Witness Pro program even through to login Windows O.S. with difference password.

When system abnormal To select PC status when DVR system abnormal. Press the arrow buttons to switch between “Exit program” and “ Restart “ function. For example: Select “Exit program”, the system will automatically reboot Witness Pro program when DVR system abnormal.

Logout when system is inactive for ?? minutes To logout the DVR system when the user is inactive DVR over setting period.

Exit option To select PC status after exiting Witness Pro program. Press the arrow buttons to switch among “Exit program”, “ Turn off “, “ Log off “or “ Restart “. For example: Select “Turn off”, the system will automatically shutdown after exiting Witness Pro program.

Auto login Enable this function will automatically login by user name and password saved in the

system when you reboot.

Section of the NetCom Module:

Model Select “3213USB or NC-320AM-I” type for control the PTZ camera, D/I and D/O device. Base on which kind PTZ controller cards you plug into your DVR.

Checksum Enable Checksum or not will depend on the type of Speed dome camera. Please refer to the manual of Speed dome camera.

Com Port You must select “Auto” from the draw menu of “Com Port “icon when you want to enable the function of Netcom module.

Baud rate You need to select a correct Baud rate if you want to control the Speed dome camera or P/T/Z camera from Witness DVR board (Default setting is 9600 bps).

Dip switch of NC-3213USB Control Board:

The dip switch for the bound rate setting, please refer to the table as below:

Baud rate \ Switch	2400	4800	9600	19200
S1	↓	↑	↑	↓
S2	↑	↓	↑	↓



- 1.) You must select 9600 baud rate, enable Checksum icon and select “Peclo P” or “FastCam III” or “SDCI-220”, when you use I-View’s FastCam Speed dome camera series.
- 2.) The ID 0 of Peclo “P” is same as Camera 1 of DVR , ID 1 same as camera 2.


Select Modem For AnyView Pro user or using Phone/Pager notify function should select which modem will be used and enable “Monitor” below to communicate with DVR. If user’s modem and fax share one telephone line, user must disable ”monitor” when no more connection required otherwise modem will occupy phone line always.



- 1.) You can select “None” to leave modem open for other communication software or voice

calls.

- 2.) You must select which modem will be used and enable “Monitor” for AnyView Pro user and Phone/Pager notify functions.
- 3.) Please contact to your local dealer for asking the model of Modem.

Screen rotation time regulates the time period of camera rotation by clicking  on the main screen. Click on the icon again to disable the rotation function. (Default setting is 5 seconds)

Assign camera rotation To rotate the sequence of the assigned cameras, which you want to show on the screen. There are two kinds video out rotation; one is “**Split video out**” and the other “**Single video out**”. Follow the instructions as below to set up the video rotation:


Assign camera rotation (Split video out) (For CP-2320RD and 2160RD Deluxe only)

- 1.) Select the rotation way from the “**Splitter**” of drop down menu as the window above.
- 2.) Choose the camera that will be first image on split screen at the drop down menu “**Camera**”.
- 3.) Enter number into “**Stay time**” tag.
- 4.) Click “**Add**” icon to save the rotation image.
- 5.) Repeat 1 to 4 for adding other rotation split videos.
- 6.) Click “**OK**” to complete the setting.



The rotation camera for 9 split screen, which can select 1-9 or 8-16 camera for 9 split screen display only.


Assign TV out rotation (Single video out)

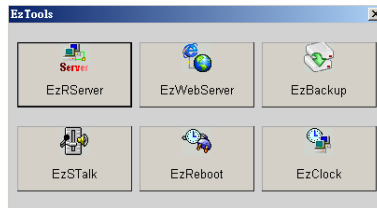
- 1.) Click  icon and then switch to the setting of “**TV out rotation**” mode.
- 2.) Choose the camera, which you want to display on the TV at the drop down menu “**Camera**”.
- 3.) Enter number into “**Stay time**” tag.
- 4.) Click “**Add**” icon to save the rotation image.
- 5.) Repeat 1 to 4 for adding other rotation videos.
- 6.) Click “**OK**” to complete the setting.

Enable restart system provide user to restarts your DVR at a set time. Using this function stabilizes the program after a long period of usage.


Visible motion area provide user to view the setting motion detection area. This function is only for the model of CP-1160RD, CP-1320RD and 2160RD Deluxe. To enable this function, user need to set up the motion setting and enable the schedule recording of motion detection in the camera configuration section.

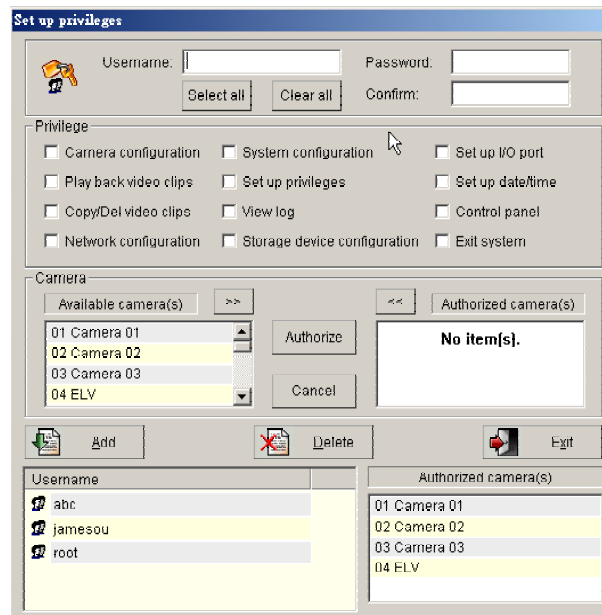
- **EzTools**

This function is to provide user selection the DVR main program tools without minimize the current surveillance sever program. To enter this selection, please click the  icon, and select the EzTools selection, then the system will display as below



4-1-7. Setup Privileges

Click  icon to enter “Set up privileges” interface for creating and modifying usernames and passwords. Users will have access to different only certain levels.



- **Supervisor name and password**

The default supervisor name and password is listed below:

Username: root **Password:** 123

Please follow the steps below to modify the supervisor’s name and password:

- 1.) Enter new supervisor name and your chosen password.
- 2.) Press “Select all” (only for supervisor) and also click “>>” to authorize all cameras.
- 3.) After completing the steps above, click “Add” to finish setup. Click “Exit” to leave “Set up privileges”



Please remember removing the default supervisor “root”. otherwise there will be two supervisors.

- **Set privilege for additional users**

- 1.) Enter username and password, enter password again for confirmation.
- 2.) Select privileges.
- 3.) Select cameras and authorize use by clicking on “**Authorize**”.
- 4.) After completing the above steps, click “**Add**” to finish user setup.
- 5.) To add another user, please repeat **1 to 4 steps**.



1.If the supervisor’s password or username is lost, Witness ASE/HS/RD series must be reinstalled. All previous settings will be lost. However, saved videos will not be erased.


2 Passwords must consist of 0-9 and a-z or A-Z.

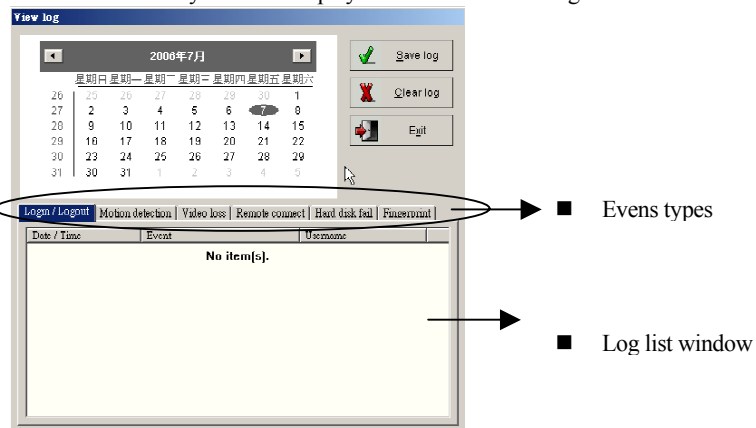
3.The password is case sensitive. (PaSsWoRd is not the same as password)

- **Remove/modify user privileges**

- 1.) Select the user in the username list.
- 2.) Click “**Delete**” to remove user or double-click on the username to modify user privileges.

4-1-8. View Log

The Witness Pro will classify the logs by date and different events types. To check the system logs simply click the  icon and the system will display the window as showing below.



■ Function Description:

Save log button: To save the log list as a file.


Clear log button: To clear current log list.

Exit button: To exit this interface.

Events types: User can simply click each type tabs to find a specific even type's log list easily.

Log list window: To list each type logs.

4-1-9. Setup I/O

Click  on tool bar to setup I/O configuration and parameters. Users will be able to **Setup relay**, **Control relay**, **Setup sensor**, **Setup Emergency call** etc. (Fig.4-1-9.1)



If the NC-3213USB NetCom module has been installed, all functions icons will be enabled. Otherwise only “setup emergency call “and “Set up Fingerprint “will be enabled. This function can also check if the NC-3213USB NetCom module is working properly.

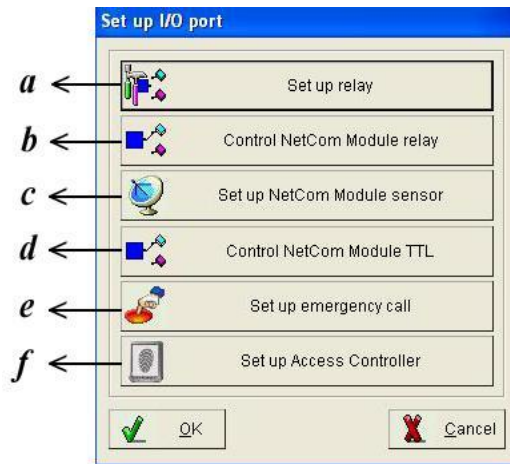


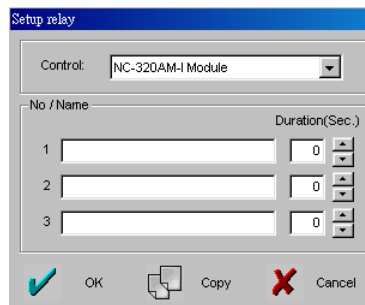
Fig. 4-1-9.1 Set up I/O port

a.) Setup relay (Option)

While user inserts the card into the DVR system, the “Set up relay” button will be able to click to enter the “Setup relay” interface as showing right site.

Function Description:

- **Control:** You need to specify the device for setup.
- **No/Name:** Enter “Controller name” corresponding to the desired relay number.
- **Duration:** Enter the controller’s working period when relay trigger.
- **OK:** Click to accept setting. **Copy:** Copy the parameter setting to another relay.
- **Cancel:** Discard changes in parameter.



b.) Control NetCom Module relay & d.) Control NetCom Module relay TTL (Option)

This function is to test remote controlling. Please click the “Control NetCom Module relay” and “Control NetCom Module TTL” button from the “setup I/O port” to enter the setup interface as showing below.

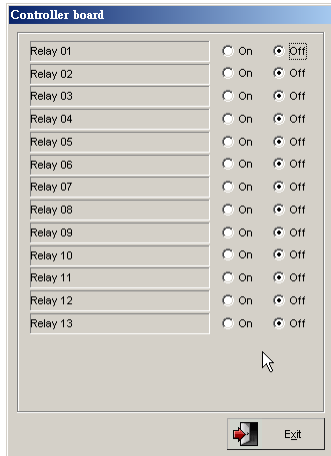


Fig. 4-1-9.2

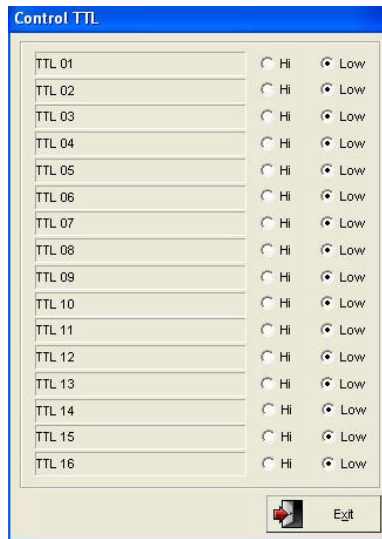


Fig. 4-1-9.3

c.) Setup NetCom Module sensor (Option)

Click “Setup NetCom Module sensor” button on setup I/O port, the window will display as Fig. 4-1-9.4.

Please follow the instructions below to complete setting.

Step 1. Choose a Sensor in pull-down menu. Enter location of specified sensor in “Location” box.

Step 2. Choose sensor type (NC or NO) in “Type” box.

Step 3. Select “Enable recording” and/or “Enable snapshot” and/or “Enable sound alarm” and/or “Enable notification” and/or “Trigger speed dome” and “Enable TV out” configure their corresponding options to the right.



Fig. 4-1-9.4

- **Enable recording:** select camera you want to record when emergency call is pressed.
- **Enable Snapshot:** select camera to snapshot when emergency call is pressed.
- **Enable sound alarm:** You can set each camera to have its own unique alarm sound.
- **Enable notification:** See details on how to set up Notification.
- **Trigger speed dome:** See details on how to set up position.
- **Enable TV out:** Please refer to “Enable TV out” setting.

Step 4. Select the specific trigger relays to use from Relay 01 to 06 (**Back Panel**). It also can trigger the relays of each NC-180AZ module.

Step 5. Enter “**Post recording**” time to continue recording after sensor is triggered.

Step 6. Click “**OK**” to complete.

e.) Emergency call


This function is to set up emergency notification when the panic button is pushed, simply click the  icon and follow the setup interface instruction to configure the emergency call feature which are sound an alarm, notify someone, start recording or show live video feeds on connected TV sets.

Fig.4-1-9.6.

f.) Set up Access Controller (Optional)

Click “**Setup Access Controller**” button on setup I/O port, the window will display as **Fig.4-1-9.6**.

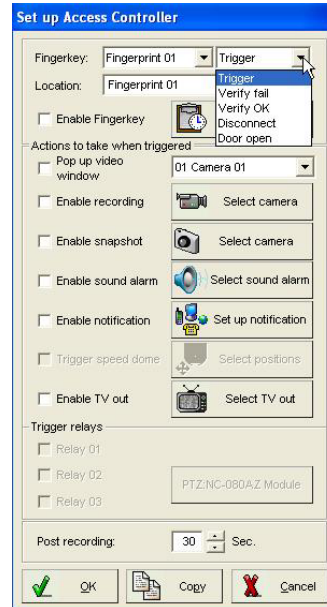
Please follow the instructions below to complete setting.

Step 1. Choose a Fingerprint in pull-down menu. Enter location of specified Fingerprint in “**Location**” box.

Step 2. Enable Fingerprint that you need to setup the Function when the Fingerprint is triggered.

Step 3. Choose trigger type (Trigger, Verify fail, Verify fail Disconnect or Door open) in box.

Step 4. Select “**Enable recording**” and/or “**Enable snapshot**” and/or “**Enable sound alarm**” and/or “**Enable notification**” and/or “**Trigger speed dome**” and



“Enable TV out” configure their corresponding options to the right.

- **Enable recording:** select camera you want to record when emergency call is pressed.
- **Enable Snapshot:** select camera to snapshot when emergency call is pressed.
- **Enable sound alarm:** You can set each camera to have its own unique alarm sound.
- **Enable notification:** See details on how to set up Notification.
- **Trigger speed dome:** See details on how to set up position.
- **Enable TV out:** Please refer to “Enable TV out” setting.

Step 4. Select the specific trigger relays to use from Relay 01 to 06(**Back Panel**). It also can trigger the relays of each NC-180AZ module.

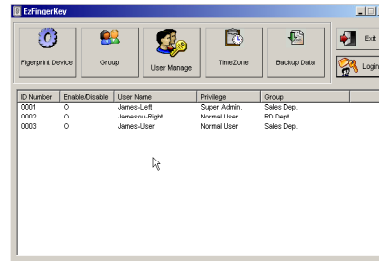
Step 5. Enter “**Post recording**” time to continue recording after sensor is triggered.

Step6. Click “**OK**” to complete.

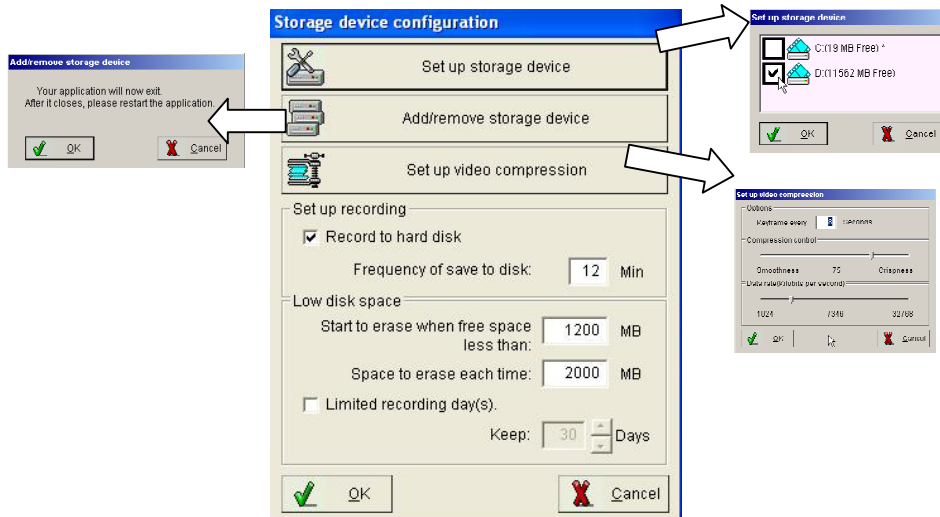
While user connected the fingerprint access



controller, user can simply click the icon. For detail of the Fingerprint Access Control, please refer to the fingerprint access controller user manual.

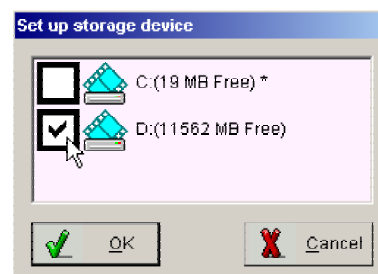


4-1-10. Storage Device Configuration



- **Storage device configuration interface description:**

Set up storage device: This button is to enable the system configured video storage (Drive “C:” is the flashing member card for saving the DVR operating system). To enable the configured device, simply check the device and click the “OK” button to complete.

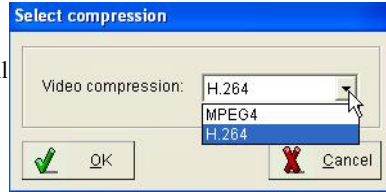


Add/remove storage device: This function is to detect the new storage device, but the DVR system need to be restart. This button must be clicked after a HDD drive is removed or added to your system. Otherwise, the program may not find playback video files. Clicking this will close your application, please remember to restart it.

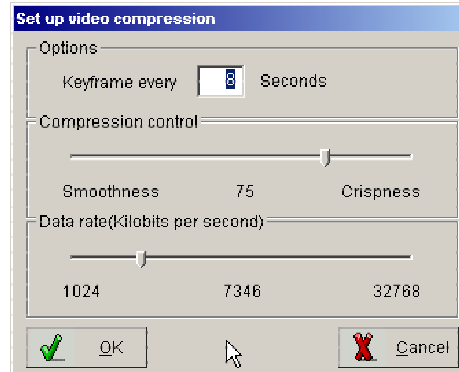


Please perform this function if you find playback function work abnormal. Running this function could repair video clip and rebuild the Database of video clips.

Setup video compression: The system provides two compression methods – MPEG 4 and H.264. The detail description as below:

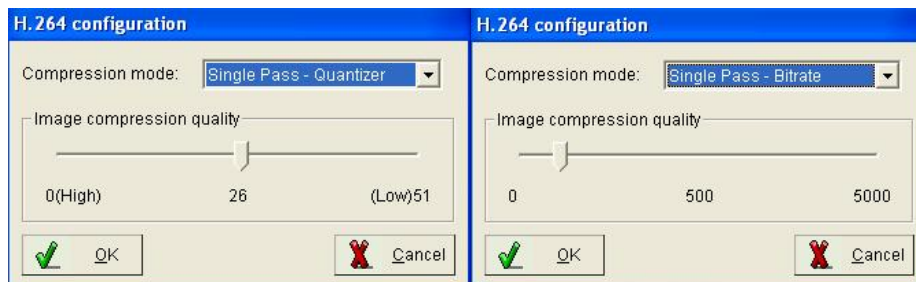


- **MPEG 4:** This function provides user to adjust the video compression quality. Higher image saving quality will decrease the system compression “Data rate” (larger image size), in the same way, lower image quality can save more image storage space for longer time recording. Simply use the selection bar to adjust the “Compression control” section or the “Data rate” section, and click the “OK” button to complete.



Setup video compression: This section is to set up when the image storage free space less than specific size, the system will start to erase.

- **H.264:** You can choice two modes Single Pass – Quantizer and Bitrate (**Optional codec**)
 - Quantizer:** This mode suitable for the exchange rate of video is lower. The file size will be smaller, but the CPU loading will be higher.
 - Bitrate:** This mode suitable for the exchange rate of video is higher. The file size will be bigger, but the CPU loading will be lower.



We will strong recommend using the Intel Q6700 or better CPU when you use the H.264

compressor for continue recording. The H.264 compressor requests more powerful CPU, so we also suggest to reduce the recording rate when using the H.264 Compressor.

Record to hard disk & Frequency of save to disk When you enable “**Record to hard disk**”, your video clips will be saved to hard disk every few minutes automatically. For example, if **Frequency** is “**5 minutes**”, video clips will be saved every 5 minutes. You can choose from anywhere between 5 and 30 minutes. Using this option can minimize video clip loss under abnormal conditions, such as a power outage. If you enable this, it is recommended that you add a fan for the hard disk because of the additional heat that will be generated. If you disable this function, video clips will be saved in memory and saved to disk based on your settings in Camera configuration → Recording → File. However, if the system shuts down abnormally, all clips not saved to disk will be lost.

Start to erase when free space less than Will start to free space on your hard disk when only a certain amount of space is left on your hard disk. Older files are erased first.

Space to erase each time This specifies the amount of disk space to free when the above limit is reached. Older files are erased first. As an example, if 1200 MB is entered, 1200MB will be erased when the limit is reached.

Limited recording day(s) Start to delete the oldest video clips when the keeping period over the setting. This function is to set up system configured storage device and video saving compression rate.

4-1-11. Video Control Panel

■ Clock Setting

To set up the DVR system display time clock.




■ Display Modes

Provide user to select different display mode for view all connected camera easily.

■ Display Modes Rotation

Click to rotate the channels in split viewing mode automatically.

■ Camera Display selection




The channels selection buttons for “normal live viewing ”, “schedule prerecording ” and “recording the view image ”

■ P S A buttons (Optional)

PTZ camera control functions, user needs to install and configure the PTZ camera and its controlling card to enable this function.

- **“P” button:** To set the PTZ camera “Preset Position”, to set up this function please follow the setup steps below.

Step 1: Blue circle in the  icon and select a PTZ camera (e.g. .

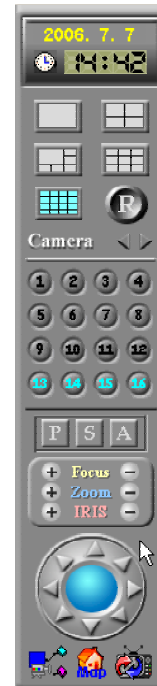
Step 2: Use the  icon and click on  or  to adjust the parameters.

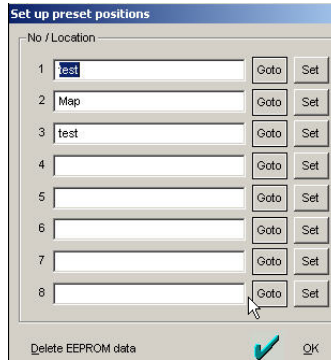
Step 3: Use the icon’s direction arrows to adjust the camera aiming position.

Step 4: Press the “A” button and press “Stop swivel”.

Step 5: Press the “P” button to enter the “Preset Position” setting interface.

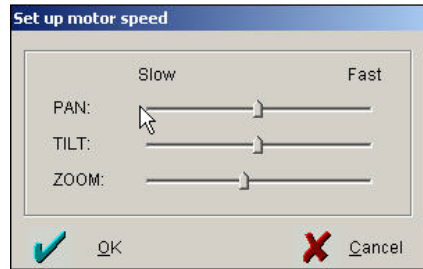
Step 6: Type a location name and press the “Set” button, and click the “OK” button to complete.






“Goto” button: To test the setting PTZ camera if aim to the preset position.

➤ “S” button: To set the speed for this camera pan, tilt, and zoom.



➤ “A” button: To adjust the PTZ camera “Auto scan” modes.

■ **TV out** 

Click this icon to rotate videos or pop-up the on TV. (For single video out) You can choice which camera(s) and how many seconds will show on the TV by the software and it also can be used the Remoter controller to control the TV out video.

■ **E-Map** 

Click this icon to show the information and map of DVR. When the sensor and camera is triggered that the icon will be flashed and video will pop up the TV out. If you use the dual monitor to display, the map will be shown on another monitor automatically.

■ **Relay** 

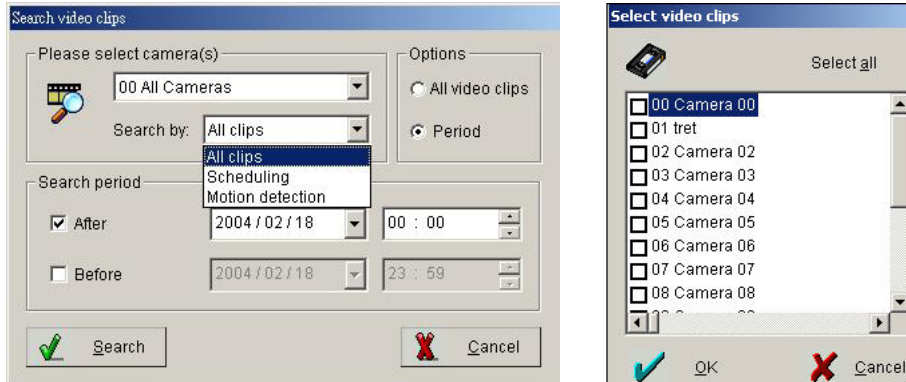
- Click this icon to set up I/O sensor of NC-180AZ Receiver module.

4-2. Back up video clips-EzBackup

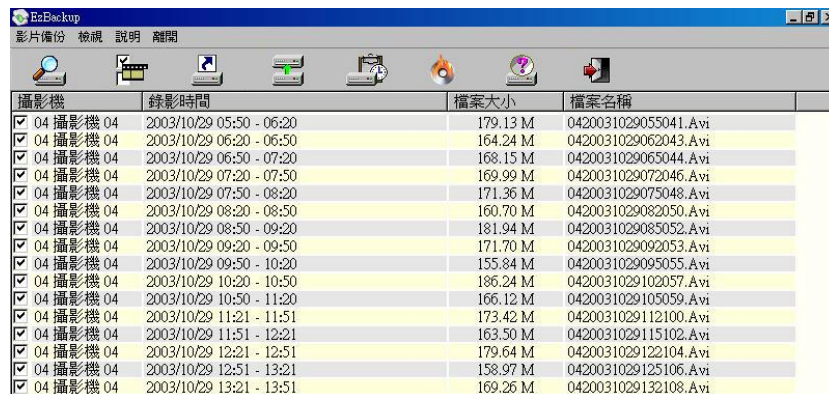
This chapter will show how to back up video clips to another storage device from your saved database.

- Follow the steps below to back up videos


1. Click  in the top of left side to search for videos in database. And you will see below window.




2. Select the camera. To play multiple videos, select “00 Camera 00”.
3. Decide which recording way will be searched by “Options”.
4. Select the recording period time and date. Click search to find the clips among the selected time, and the system will display the window as below.



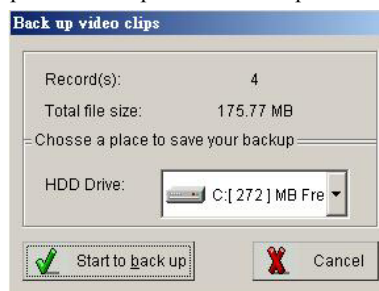
攝影機	錄影時間	檔案大小	檔案名稱
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 05:50 - 06:20	179.13 M	0420031029055041.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 06:20 - 06:50	164.24 M	0420031029062043.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 06:50 - 07:20	168.15 M	0420031029065044.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 07:20 - 07:50	169.99 M	0420031029072046.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 07:50 - 08:20	171.36 M	0420031029075048.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 08:20 - 08:50	160.70 M	0420031029082050.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 08:50 - 09:20	181.94 M	0420031029085052.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 09:20 - 09:50	171.70 M	0420031029092053.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 09:50 - 10:20	155.84 M	0420031029095055.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 10:20 - 10:50	186.24 M	0420031029102057.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 10:50 - 11:20	166.12 M	0420031029105059.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 11:21 - 11:51	173.42 M	0420031029112100.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 11:51 - 12:21	163.50 M	0420031029115102.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 12:21 - 12:51	179.64 M	0420031029122104.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 12:51 - 13:21	158.97 M	0420031029125106.Avi
<input checked="" type="checkbox"/> 04 攝影機 04	2003/10/29 13:21 - 13:51	169.26 M	0420031029132108.Avi

5. Select video file, which you would like to have by manual. Or you also can click  to select /remove selection all video file.
6. The EZBackup program provides three methods to backup the video clips and the detail process as below:


Backup to another HDD by manual:

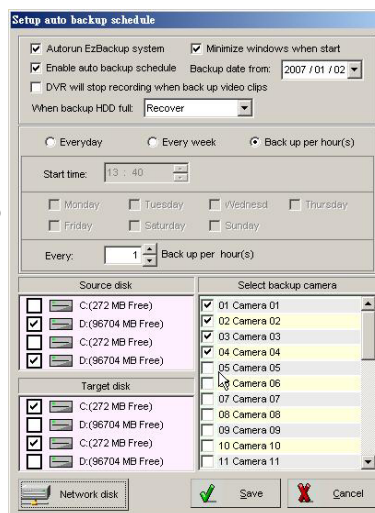
- a. Click  will see the Fig4-2.1 diagram window.
- b. Select the HDD from “HDD Drive” section.
- c. Click “Start to backup” icon to start backup.

(Fig4-2.1)



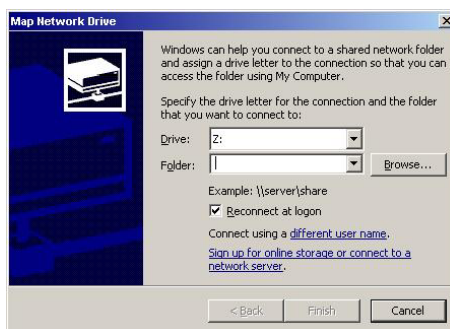
Auto Backup video clips via Schedule:

- a. Click  will see the Fig4-2.2 diagram window.
- b. Enable “Enable auto backup seclude” function.
- c. Select the “Date” to backup video clips from “Backup date from” section.
- d. Choice “Recover” or “Stop” from “When backup HDD is full” section.
- e. Select the backup schedule from “Everyday”, “Every week” or “Back up per hour(s)”.
- f. Select the backup camera (s) and source disk.
- g. Select the “Target disk” to back the video clips. If The “Target disk” is NAS or another PC, please




click the “ Network disk” icon to

display the network hard drive setting dialog as Fig4-2a, follow the dialog instruction and type the specific path of the network HDD for backup the video clips. To add more Network’s HDD path, please repeat this step again. (Fig4-2a)



Backup video clips from DVD+-RW (CD-RW):


- a. Click  will see the Fig4-2.3 diagram window.
- b. Insert the backup media such as CD or DVD disk.
- c. Select the correct “ **Device** “ and “ **Media type** “ .
- d. Click “ **Burn now** “ icon to start backup.



If you enable “ Copy playback program “ icon, the CD will back up EzPlayback and EZSynplayback program at the same time. You can use these playback programs to playback the video clips of CD or DVD on any PC.



(Fig4-2.3)

7. Click  to complete backup.

● **Video tool bar on backup screen**



Search – Click this icon to search video files.



Select – Click this icon to select/remove all video clips to back up video clips.



Create backup shortcut – Click this icon to paste the video clips which has been selected to the other storage devices; such as CD-RW/DVD+-RW or HDD.



Back up video clips – Click this icon to back up video clips to Hard Disk.



Setup auto backup schedule – Click this icon to back up video clips to Hard Disk by schedule automatically.



CD Burning – Click this icon to back up video clips to Hard Disk on to back up video clips CD-RW or DVD+-RW.



About - Press to see the program version.



Exit –Exit the video backup setting window.

4-3. Web Browse Server – EzWebServer

This function is to provide user for remote monitoring with IE browser via Internet. Please follow the instruction below to set up this function.

Fig. 4-3.1 EzWebServer

- **Setup in local host DVR sever:**

Step 1: Enable the “Web Browser Sever – EzWebServer” program.

Step 2: Click “Enable auto run system” and “Hide window” to auto enable the EzWebServer when start the Witness Pro system every times.

Step 3: Please click the “Set up EzWebServer” button and fill out the “Web IP address” section. For detail about the fix IP address, please contact your ISP provider.

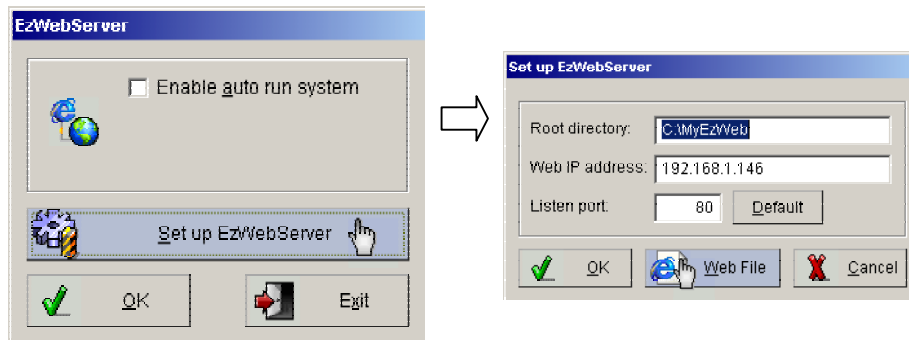
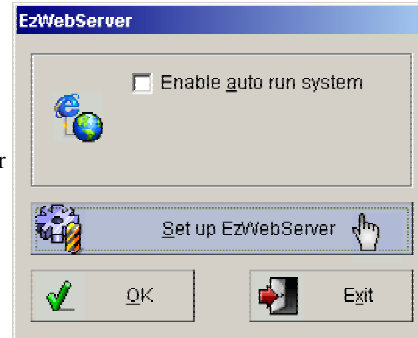


Fig.4-3.2 Click the “Set up EzWebServer” to display “Set up EzWebServer”

Step 4: Please click the “Web File” button and fill out the information in each section of the “Demo.htm” interface, then click the “Generator” button to complete the settings.

“Demo.htm” Setup interface sections description:

- **Connection Type:** To Select use “IP Address” connection or “ID Code” (For Dynamic IP address connection) connection.
- **DVR IP Address:** If user selects “IP Address” connection type, please fill the DVR IP address in this section.



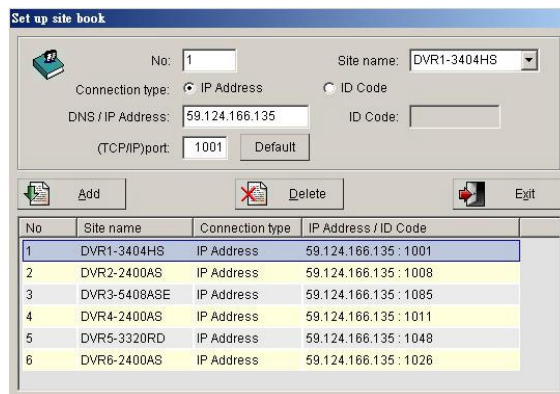
Fig. 4-3.3 “Demo.htm” setting interface

- **ID Code:** If user selects “ID Code” connection type, please fill the ID code in this section
- **Port number:** Please type the port number for remote connection.



Please make sure the setting connection port is not used by PC program commonly, or the connection may be collided with other PC application program.

- **Auto connection:** Enable this function and type in the “Username” and “password to allow remote PC to set up remote connecting this DVR automatically.
- **Add connection:** Enable this function and type in the “Username” and “password to allow remote PC to set up remote connecting this DVR automatically.
- **Add site book:** Enable this function and then you can add this DVR into the connection list when you enable EZWebserver program. The users can select the DVRs from among list from remote connection.




● **Remote client PC setup:**

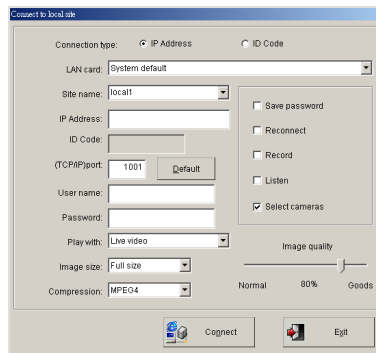
Step 1: Click IE Browse from the Remote client PC, and then enter the IP address of Local DVR Server.

Step 2: Please allow the ActiveX program to install on your PC when the ActiveX pop-up, and the screen in IE browser will display as below.

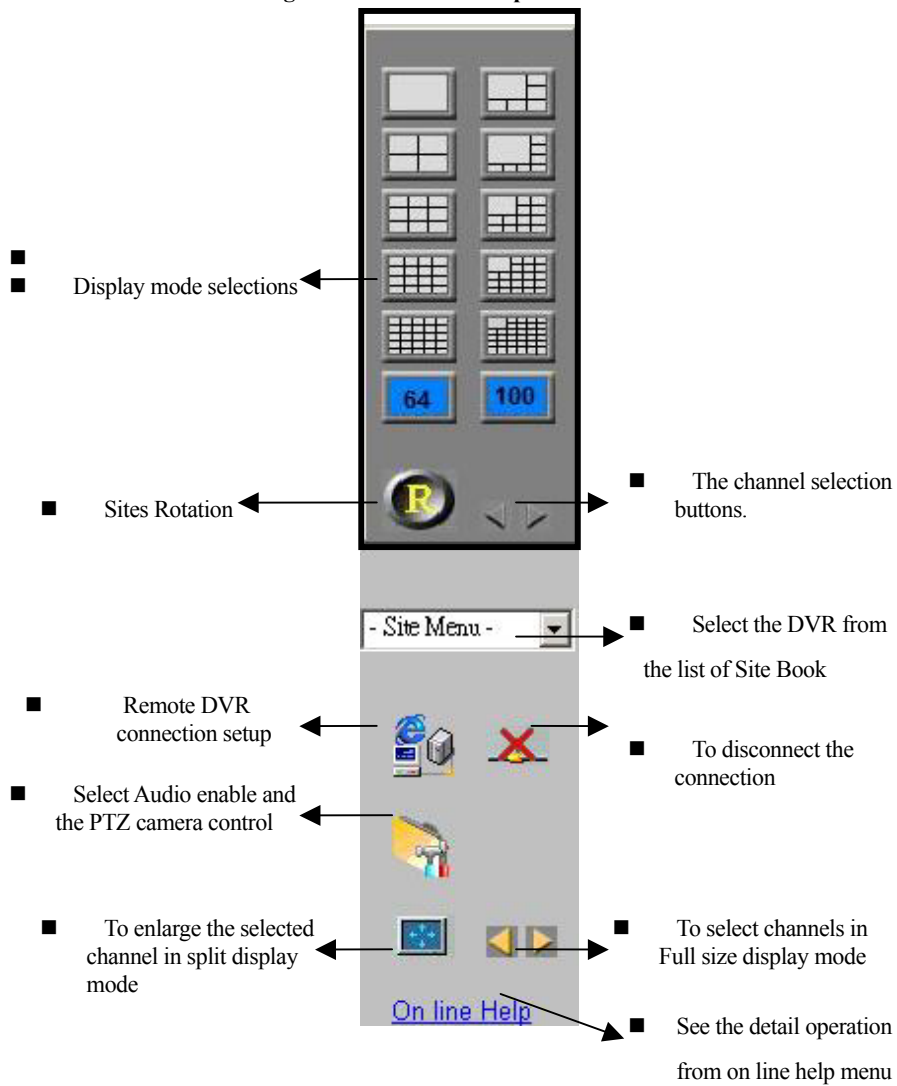
Step 3: You can select the DVR list from “Site Menu” box for remote connection.



Step 4: Click  icon from the right side control panel to connect the Local DVR Server, and the screen will display the “Connect to local site” setting interface.



Step 5: Simply give a name in “Site name” and type in the DVR IP address or ID code, (TCP/IP) port number, Login “User name” and “Password”, then press the “Connect” button to start the connection.**Browser Viewing Tools Function Description:**




4-4. LAN Play Back Video Clips – EzLanPlayback

This chapter introduces how to use the EzLanPlayback program via the LAN connection. Before start to use EzLanPlayback program, please make sure that the file folder (e.g. ClipPro folder) of the Witness Pro is shared to network users, and follow the instruction below to start.

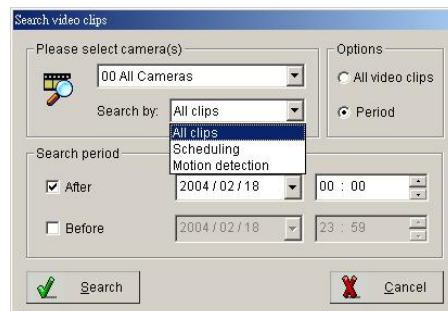
Step 1: Please go to the path: Windows “Start” menu → “Programs” → Witness (series AS/ASE/DX/HS/RD/U) Pro, and click the “LAN play back video – EzLanPlayback” to start the program as showing below



- **Play video clips from a default folder:**

Step 2: To use default local video clips file folder, simply click the  icon on the right side control panel, and the system will display a video clips searching dialog as showing below.

Step 3: Select the desired camera and specific date, then click the “Search” button



to search the video clips.

Step 4: The system will automatically playback if the program finds the video clips, or it will display a message of “No Video Clips”.


● **Play video clips from the local specific folders:**

Step5: To select a specific local folder of the video clips, simply uncheck the “Use default” box and press the




icon on the right side control panel and the

system will display the “Search video clips” dialog as showing below.

Step6: Click the  icon to select a specific video


clips folder for playback, and press the “Add” button to add the selected folder path for video clips searching list, and repeat this step to add more video clips folder path on the searching list. Press the “**Re-search video clips**” button to finish the adding.

Step7: Click the  icon and repeat the **Step3** and **Step4** above again to play the specific local folder video clips.

● **Play video clips from the network sharing folders:**

Step8: To play the video clips from the remote network sharing hard drive folder , please click the



“” icon to display the network hard drive setting dialog, follow the dialog instruction and type the specific directory of the network sharing folder to add the path in the searching list. To add more network sharing folder, please repeat this step again. Press the “**Re-search video clips**” button to finish the adding


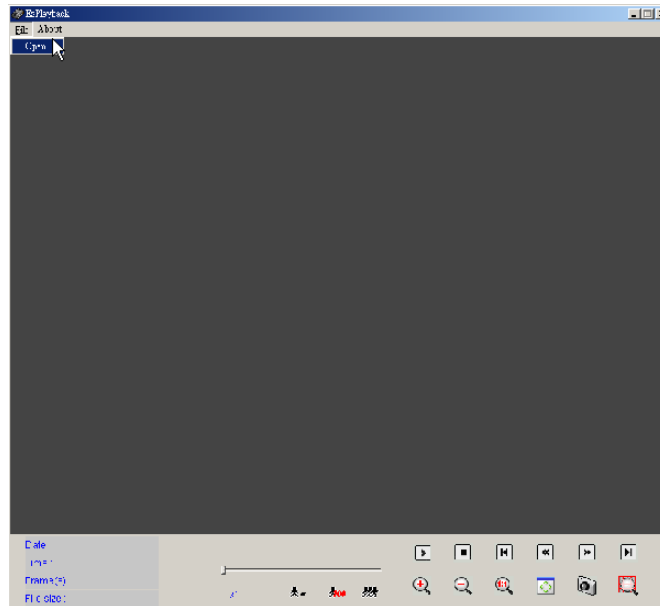
Step9: Click the  icon and repeat the **Step3** and **Step4** above again to play the network sharing folder video clips.



Fig 4-4.1 Search video clips

4-5. Play Back Video Clips – EzPlayback

This function is for user to play back video clips in fast and simple way. Please go to the path: Windows “Start” menu → “Programs” → Witness (series AS/ASE/DX/HS/RD/U) Pro, and click the “Play back video clips – EzPlayback” selection to start the program



- **To open a video clips and play:**

- 1.) Press the “file” function from the program upper left side, and click the “Open” selection.
- 2.) The program will display a file selection dialog, then select a video clips file and press the “OK” button to finish the selection.
- 3.) The program main screen will display an initial image of the selected video clip, simply press the “▶” icon to start the playing.

- **EzPlayback Control Panel Function Description :**


















Play – Click this icon to play back videos.



Pause – Click this icon once to pause videos.



Play backward – Click to play video stream backward.

-  **Stop** – Click this icon to stop videos.
-  **Previous frame** – Jump to previous frame.
-  **Next frame** – Jump to next frame.
-  **First frame** – Jump to the first frame of video clip.
-  **Last frame** – Jump to the last frame of video clip.
-  **Zoom in** – Click this icon to zoom in.
-  **Zoom out** – Click this icon to zoom out.
-  **Original** – Click this icon to go back original video size.
-  **Navigation bar** – This displays the current position of the video clip and allows users to move to different points within the clip. Left moves backward, right moves forward.
-  **Snapshot** – Click this icon to capture the video screen as a BMP or JPEG file.
-  **Resize** – Click this icon to resize clip.
-  **Decrease frame rate** – Decreases the frame rate.
-  **Normal frame rate** – Adjusts frame rate back to normal.
-  **Increase frame rate** – Increases the frame rate.
-  **Smart search video:** To detect the change of the object in a selected region of a recorded video clips, and list the events on the right side window. Please refer to the page 53 to page 55 of this manual for detail function description.

4-6. Text insert Playback – EzTextPlayback

To enable this function, user need to install the POS system with the PC, Please go to the path: Windows “Start” menu → “Programs” → Witness (series AS/ASE/DX/HS/RD/U) Pro, and click the “POS Playback—EzPosPlayback” icon. Please refer to the PTI-100 user manual for detail POS system hardware installation, system configuration and functions usage.

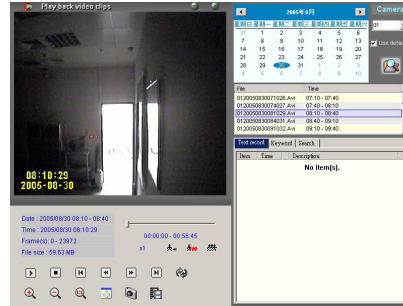



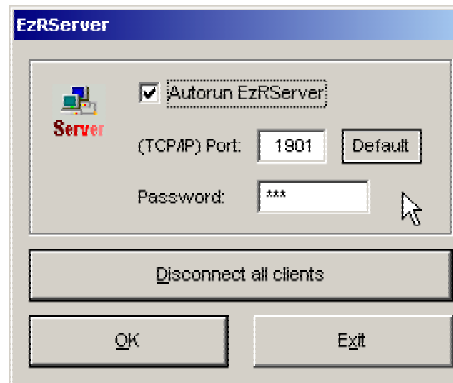
Fig.4-6.1 POS Playback

4-7. Remote Control Server– EzRServer

This function is to allow user remote connecting the DVR by the “FreeView Pro” PC program. To enable this function, simply click the  icon from the path of the Windows “Start” menu → “Programs” → Witness (series AS/ASE/DX/HS/RD/U) Pro, and the system will display the “EzRSever” setting interface as showing below.

● EzRSever Setting Description:

- **Autorun EzRSever:** Check to enable the Witness Pro to automatically run the EzRSever when system starts.
- **(TCP/IP) Port:** To set the connection port for remote client PC connecting.
- **Password:** To set the connecting password.
- **Disconnect all clients button:** To disconnect all remote connection.
- **OK button:** To enable the EzRSever function and complete the setting.
- **Exit button:** To disable the EzRSever function and exit without the setting.



4-8. Two Way Communication – EzSTalk

This chapter will show how to have the real-time audio from designated locations is simultaneously transmitted to both the control center and designated DVR sites.

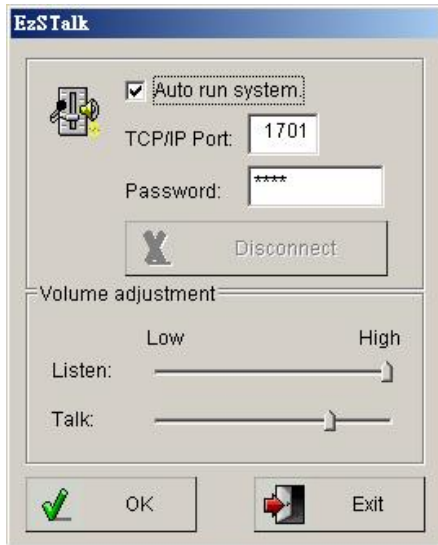


Fig 4-8.1

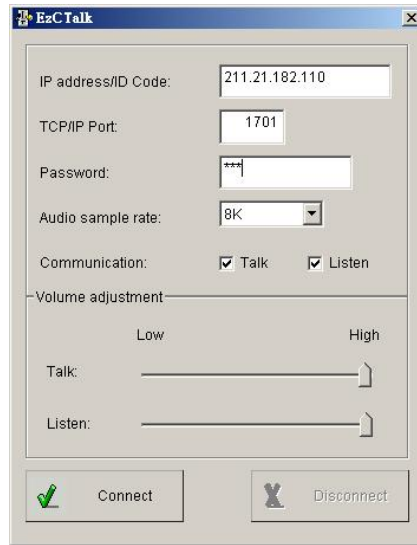



Fig 4-8.2

- Follow the steps below to setup audio communication:

On Witness Pro site

- Step1:** Click  icon from the Windows “Start” menu → “Programs” → **Witness (series AS/ASE/DX/HS/RD/U) Pro**, and the system will display as Fig 4-8.1.
- Step2:** Enable “Auto run system” icon, the program will be enabled when you turn on the PC.
- Step3:** Enter your “Password” for remote client connection.
- Step4:** Adjust the audio volume of Listen and talk to suit your request, if it is necessary.

On Remote Client PC site

- Step 1:** Once user has finished installing the FreeView Pro software, go to the path of Windows “Start” menu → “Programs” → “FreeView Pro”, and then clicking on the “Two way

communication – EZCTalk” icon, and the system will display as Fig 4-8.2.

Step 2: Enter the “**IP address**” or “**ID Code**” and “**Password**” of the DVR board site setting.

Step 3: The number of “**TCP/IP Port**” must be matched between FreeView Pro and Witness Pro.

Step 4: Choose the “**Audio sample rate**”. Choosing a **16K** audio rate will give a better audio quality, but also take up more bandwidth. Oppositely, choosing a **8K** rate will give a worse quality and less bandwidth.

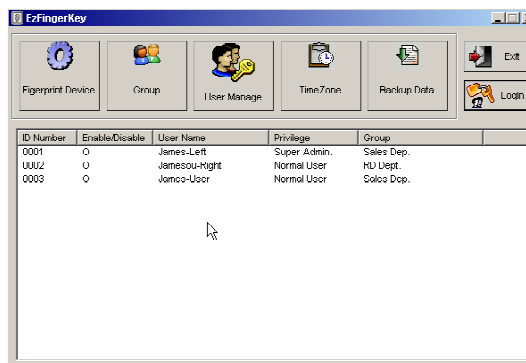
Step 5: In the “**Communication**” section. Check the “**Talk**” and “**Listen**” function box for two way communications.

Step 6: Adjust the audio volume of Listen and **Talk** to suit your request, if it is necessary.

Step 7: Press the “**Connect**” button to start the communication process.

4-9. Access Control – EzFingerKey

While user has connected to the fingerprint access controller, user can go to the path of Windows “**Start**” menu → “**Programs**” → **Witness (series AS/ASE/DX/HS/RD/U) Pro**, and click the “**Access Control – EzFingerKey**”. For detail about the fingerprint access controller installing, system configuration and the functions usage, please refer to the fingerprint access controller user manual.



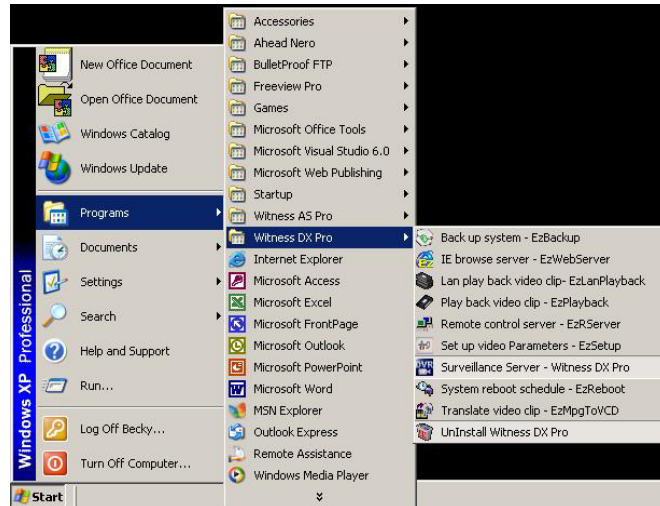
4-10. Uninstalling Witness Pro Software and Device Driver

This chapter describes the removal of the software and device driver.

4-10-1. Uninstalling Witness AS/ASE//DX/HS/RD/U XP

You can uninstall Witness XP software by doing the following steps:

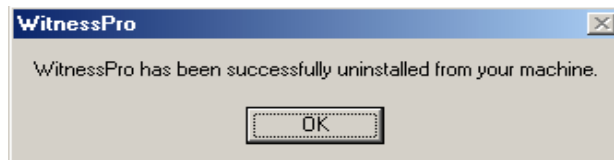
- Step 1:** Click “**Start**”, “**Programs**”, “**Witness AS/ASE/DX/HS/RD/U XP**”, and then select “**Uninstall Witness AS/ASE/DX/HS/RD/U XP**”.



- Step 2:** Click “**Yes**” to start uninstalling “**Witness AS/ASE/DX/HS/RD/U XP**”.



- Step 3:** Click “**OK**” to complete the removal of the software.



4-10-2. Checking for or Uninstalling the Device Driver

You can uninstall or inspect your device driver by doing the following steps:

Step 1. Click “Start”, “Settings” and “Control Panel”, as Fig. 4-10.1.

Step 2. Double-click on the “System” icon, as Fig. 4-10.2.

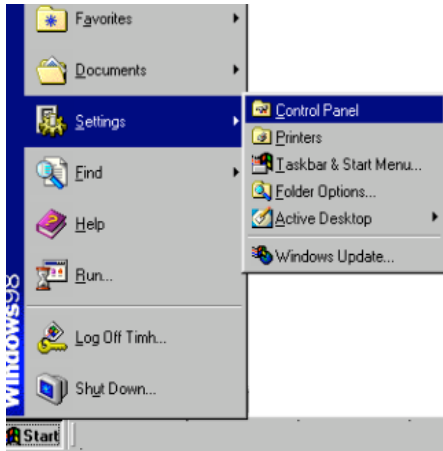


Fig. 4-10..1



Fig. 4-10..2

Step 3. Select the “Device Manager” tab.

Step 4. As Fig. 4-10.3, select “Sound, video and game controllers”, where you will find device driver. The detail driver information, please refer to the **Table 4-10**

Driver Name	Video Server Card
WitnessXP PCI 0/1/2/3 Device Video Server Capture	CP-1400AS XP 0/ 1/ 2/ 3
WitnessXP PCI 0/1/2/3 Device Audio Server Capture	
WitnessTW PCI 0/1/2/3 Device Video Server Capture	CP-2400AS XP 0/ 1/ 2/ 3
WitnessTW PCI 0/1/2/3 Device Audio Server Capture	
Witness 5404HS/5408/5416/5432ASE XP Device	CP- 5404HS/5408/5416/5432 ASE
Witness 1908/1916/1932 ASE XP Device	CP- 1908/1916/1932 ASE
Witness 2160RD Device	CP-2160RD or CP-3160RD Deluxe
Witness 3320RD Device	CP-3320RD Deluxe

(Table 4-10)

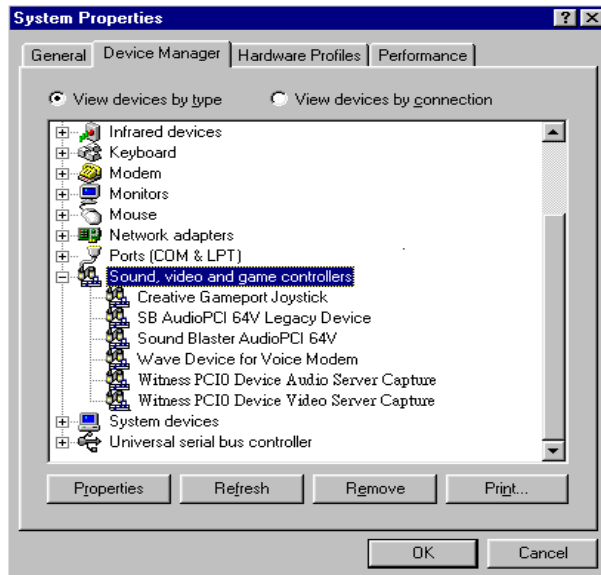


Fig. 3-2.3

Step 5. Removal only, highlights the device you wish to be removed, and then click “**Remove**” to remove the device driver.

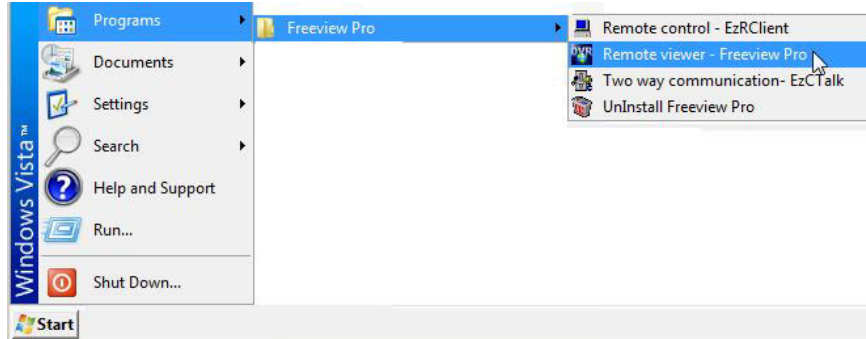
Step 6. Click “**Ok**” to complete the removal of the device driver.

Chapter 5 Remote Client PC Software

5-1. Start Using Remote Client Program

5-1-1. Start Using FreeView Pro

Once you have finished installing the software, please go to the windows “Start” menu, and select the “Programs”, then “FreeView Pro”, and then clicking on the “Remote Viewer – FreeView Pro” icon. The following icons are available:

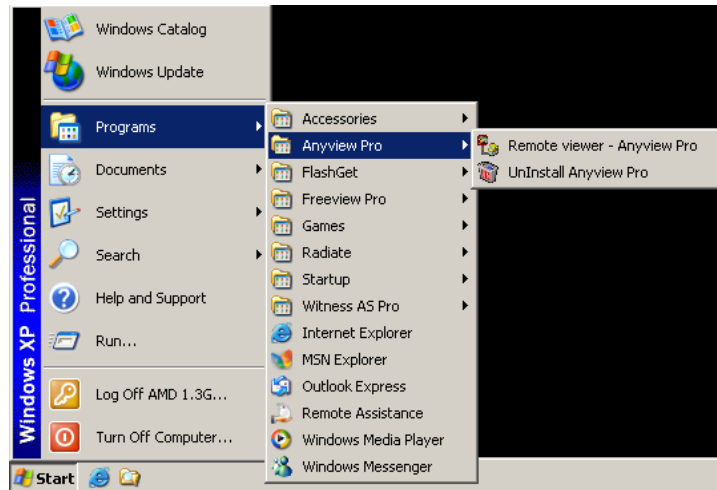


- **Remote Viewer - FreeView Pro:** FreeView Pro enables you to remotely patrol your place from any place at any time as long as you have the access to an Internet.
- **Uninstall FreeView Pro:** Removes FreeView Pro from your computer.
- **Two way Communication- EzCTalk** – Real-time audio from designated locations are simultaneously transmitted to both the control center and designated DVR sites. Please refer to the **chapter 4-8** in this manual.
- **Remote Control- EZRClient:** Allows the Remote client to set up the DVR from remote site such as operating at the local. The detail setting please refer to the **Chapter 5-1-10** in this manual.

5-1-2. Start Using AnyView Pro

Once you have finished installing the software, there are two icons will be created in the system. You may access them by clicking on the “**Start**” button, the “**Programs**” folder, then “**AnyView Pro**” and then clicking on the “**Remote Viewer - AnyView** ” icon. The following icons are available:

- **Remote Viewer - AnyView Pro:** AnyView Pro enables you to remotely patrol your home, office, retail outlet, warehouse, factory, etc. from any place at any time as long as you have the access to a telephone line.
- **Uninstall AnyView Pro:** Removes AnyView Pro from your computer.




5-1-3. Free View Pro/AnyView Pro Program Operation



Many of the functions in FreeView Pro behave similarly or even identically to those of Witness ASE/HS/RD Pro software.

The tool menu bar enables you to use TCP/IP to connect to the Local DVR Server via Internet or Intranet easily, control the video channels of the Local DVR Server, display Local DVR Server video channels, save video files, and configure exactly how you want the program to work.

Before you can do anything, you must login. You cannot access any of the functions in FreeView Pro without logging-in. Begin by pressing  in the upper right corner and you should see the window below. The initial, factory default username is “root”, and the initial password is “123”. You should change the password as soon as possible after your first login. After you login, you can explore the system through the following buttons.



Connect to local site: Use this to set up a connection to the Local DVR Server.



Set up site book: The site book allows you to easily keep track of the sites you connect to.

Rather than entering the same information every time you connect to a site, you can store it in the site book.



Play back video clips: This would allow user to search video clips by site name and play back one or more video files of remote client PC from saved database.



System configuration: Press this to set system configuration.



Set up privileges: Use for setting user privileges.



View log: Press this to see the log-in/logout record and alert table.



Storage device configuration: To configure storage settings.



Remote Control: Allows the remote client user to set up the DVR system.



Stop sound alarm: Press this to turn off an alarm (such as a detection alarm) after it sounds.



Listen: It will allow remote user listen to the local site DVR.




About: Press to see the program version.

5-1-4. Connecting to Local DVR SEVER

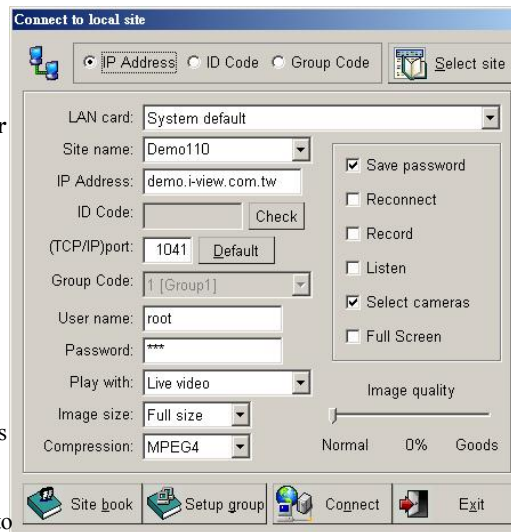
This chapter shows you how to connect to Local DVR Server.

● Make a IP address or ID code connection via Internet

1. Connect to the Internet or Intranet with your computer first.
2. Click  on the bottom **Tool bar** To display the window **Fig 5-1-4.1**
3. Connecting to the Local DVR
4. Server via Internet:


Local DVR Server has a fix IP

- a.) Enable “**IP address**” at the top of the window.
- b.) Enter the “**IP address**” (IP address or DNS)
- c.) Enter the site name that you wish to connect to in the “**Local site**” box. Its name is up to you.



Local DVR Server using the dynamic IP

- a.) Enable “**ID Code**” at the top of the window.
 - b.) Enter the “**ID Code**”. Your vendor could provide the ID code.
 - c.) Enter the site name that you wish to connect to in the “**Local site**” box. Its name is up to you.
5. Select LAN card, if you have installed more than one.
 6. The number of “**TCP/IP Port**” must be matched between FreeView Pro and Witness Pro. Witness ASE/HS/RD Pro default is 1001 Please choose an option from the “**Play with**” menu. “**Live video**” plays the camera. If the DVR site use the CP-2160RD/CP-2320RD that you can select “**Split Video**” selection to display the camera video with faster transmission speed, and there are some issues may different with “**Live video**”:
 - a. All video which display in FreeView Pro with “Combine Video” mode will record into a file when you enable recording function.


- b. In “Combine Video” mode, anyone of remote client or DVR site users who changes to different video split display mode (e.g. 1,4,8,16 split ways...etc.) will effect to all connected users.
7. Which is currently viewing, “**Remote Playback**” will allow you to play back video clips that had been recorded on Local DVR, and “**Remote download**” will allow you to download video clips that had been recorded on Local DVR.
 8. Enter your “**Username**” and “**Password**”. The administrator of Local DVR Server must create a specified user account in Local DVR Server before you connect. Without the correct username and password, you cannot log in.
 9. Choose a “**MPEG 4 HQ**” or “**MPEG 4**” as **Compression** method for transmitting video.
 10. Choose an “**Image quality**”. Like other quality selectors, choosing a higher quality will give a better image, but also take up more space and take longer to transmit.
 11. Choose an “**Image size**”. Choosing a **Full size** will give a better image, but also take up more space and take longer to transmit. Oppositely, choosing a **Half size** will give a worse quality and faster transmission speed.
 12. Press the “**Connect**” button to complete the process. FreeView Pro will connect you to the Local DVR Server.
 13. “**Site book**” allows you to set up site information if you have more than one Local DVR Server wants to connect. Click “**Site book**” in the bottom corner of window (you can also use “**Set up site book**” on the bottom tool bar) and enter the same information as you enter above, then click “**Add**” to save it. You can click the “**Select site**” icon in the upper right and decide which site you want to connect with.
 14. Repeat **step 1~11** you can also connect more than one Local DVR Server and choose which one you want to **Play with. (Live video, Remote Playback and Remote download)**
 15. Click  near the top enter of your FreeView Pro window to disconnect when you finish communicating with the local DVR site. “**Save Password**”, “**Reconnect**”, “**Record**”, “**Listen**” and “**Select cameras**” are options on the right side of the window. **Save Password** if you want this user’s password to be saved. This means that later when you enter this same username, the password will automatically be recalled.

Reconnect If you want FreeView Pro to automatically reconnect after the connection is broken. **Record** It will record videos of the Local DVR Server on remote client computer automatically when the video is connected.




Listen It will allow remote user listen to the local site.

Select camera It will allow remote user to select, which camera(s) want to remote view. If you enable this function, it will show the available camera(s) for your selection before you connect to the Local DVR Server.

- **Concurrently monitor multiple Local DVR Servers**













When user wants to monitor multiple Local DVR Servers at the same time, at first, user should connect all Local DVR Servers he wants to monitor. Click any place on the screen then press  or **ESC** key of keyboard. Below window will be seen. The videos came from multiple Local DVR Servers will be combined and displayed on the screen. User could decide to how many videos are split by select “**Splitter:**” (maximum is 100).

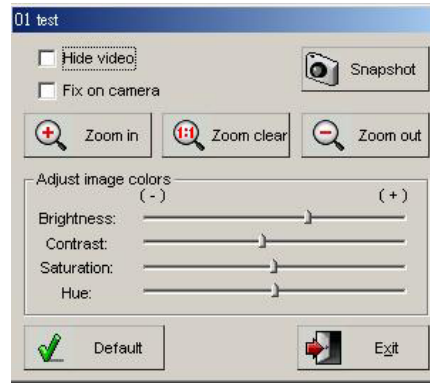


Click  or  to rotate camera views on screen manually. To return the tool bar mode, press the  icon again or **ESC** key of the keyboard.

5-1-5. Video Window Function Description

The right toolbar contains many useful buttons. Here is an explanation of what they do.

- Click  to modify system time.
- Click  to view just one camera's image. Double-clicking a screen when viewing multiple windows can do this function too. Double-click again to go back to multiple modes.
- Click  to divide the window into 4/9/16/25 split screens.
- Click  to divide the window into 6/8/13/22 split screens.
- Click  to rotate cameras views on screen automatically. Click again and the rotation will stop. Note that this differs from Witness Pro's camera rotation. For example, if you have 2 cameras at site A, and 4 cameras at site B. FreeView Pro will rotate to site A, showing the 2 cameras of A, then to B, only showing the 4 cameras of B. The rotate time is up to user.
- Click  or  to rotate camera views onscreen manually.
- Click  ...  to start or stop recording. **Red** means recording, **blue** means waiting and view mode is **black**. You can instantly start recording on a camera by toggling this button to red if that camera did not set any recording schedule.
- Click  to disconnect with the Local DVR Server.
- Click  To listen to the available camera(s) of the Local DVR Server. If you would like to stop to listen the audio; click **"Stop Listen"** tab. 
- **P/T/Z (optional)** PTZ camera or Speed Dome Camera on Local DVR Server is authorized to be played on remote site, remote client can operate Speed Dome/PTZ Camera when connect successfully.
- When viewing camera(s) of Local DVR Server, you can right click on the screen to bring up more options, as below:



Hide video This button blanks the portion of the screen devoted to this camera.

Fix on camera This button freezes motion on all other cameras, while this camera will continue to play.



This button takes a snapshot of the video image as a photograph. A new window will pop up, where you can choose to save this image to disk or choose to print it out.

Adjust Image Colors Right click on the video screen, and you will be able to adjust brightness, contrast, saturation and hue.



This function is designed to zoom in (amplify) the video display image. After you have screen zoomed in, you can navigate the viewing area by holding down the left mouse key on the screen.





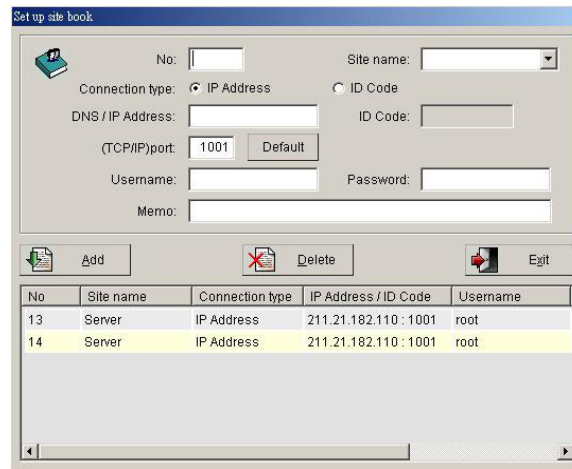
This function is designed to zoom out (shrink) the display image. The video image zooms out at each click of the icon.



This function is designed to return the image to its original and default magnification.

5-1-6. Using the Site Book

The site book will conveniently remember all the necessary information about a site that you wish to connect to so you will not have to type it all over again every time you connect. Begin by clicking  in the tool bar or in the lower right corner of the  menu. You will see the window below.





No	Site name	Connection type	IP Address / ID Code	Username
13	Server	IP Address	211.21.182.110 : 1001	root
14	Server	IP Address	211.21.182.110 : 1001	root

Please follow steps as below to set up the site book:

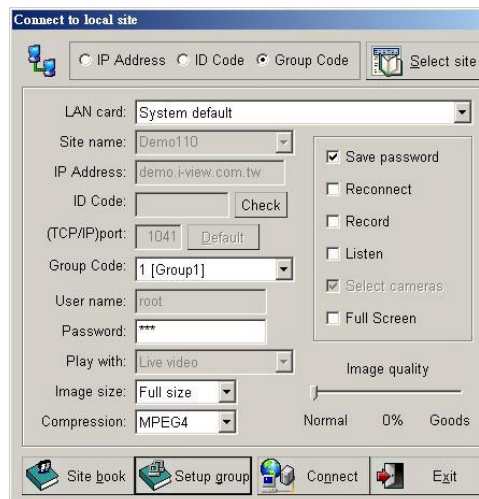
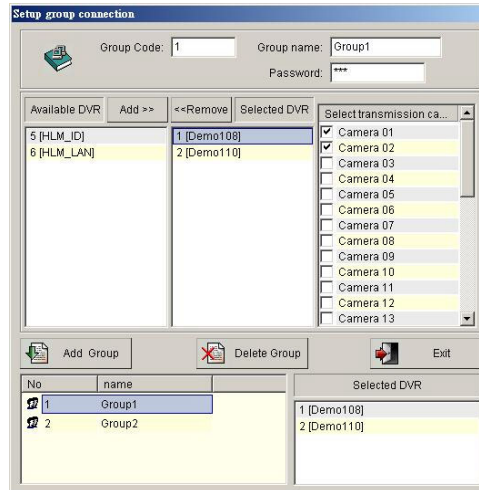
1. Fill in a “No”. If you fill in a “No” that is not taken, you will be able to. The numbers you choose do not matter, as long as they are not already being used – the numbers are only for distinction. Note that if you ever add an entry with the same number as an existing one in the book, **the original will be deleted.**
2. Fill in “Site name” or select the available Local DVR Server in the pull-down menu.
3. Click ID code or IP address for “Connection type” and fill ID code or IP address/DNS, respectively.
4. Fill in “Port”. The number of “Port” must be matched between FreeView Pro and DVR’s software. Default Port number is 1001.
5. Fill in “Username” and “Password”. The administrator of Local DVR Server must create a specified user account in Local DVR Server before you set up site book.
6. Press “Add” button to finish a site book set up.

5-1-7. How to setup Group for Multi sites remote access

The site book will conveniently remember all the necessary information about a site that you wish to connect to so you will not have to type it all over again every time you connect. Begin by clicking  in the tool bar or in the lower right corner of the  menu. You will see the window below.

Please follow steps as below to set up the Group book:


- Fill in a “No”. If you fill in a “No” that is not taken, you will be able to. The numbers you choose do not matter, as long as they are not already being used – the numbers are only for distinction. Note that if you ever add an entry with the same number as an existing one in the book, **the original will be deleted.**
- Fill in “Group name” and entry the “Password”
- Select the DVR from “ Available DVR “ Box, which you would like to add into the Group. And then click the “ Add “ icon to add into the Group.
- The selected DVRs will show on the “ Selected DVR “ Box.
- Choice the transmission camera(s) for each DVR of “ Selected DVR “. The selected camera(s) will list on the “ Select transmission camera

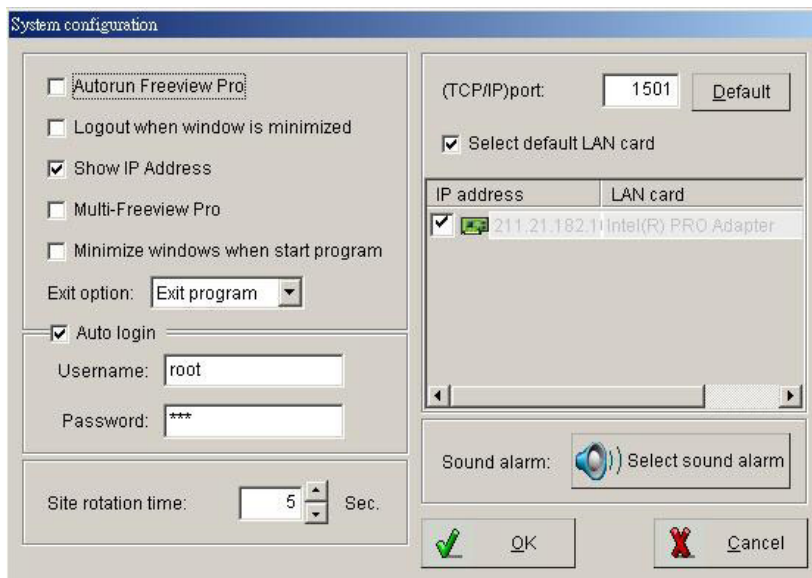


“ box.

- Press “Add” button and “ Exit “ icon to finish a DVR group set up.
- You can start to use the Group for Multi site connection when you finish the step 1 to 6.
- Select “ Group code “ icon and select the available Group name in the pull-down menu of “ Group Code “.
- Entry the Password that you setup for this Group and then click “ Connect “ icon for remote connection.

5-1-8. System Configuration

Click  and you will see the window below



Auto run FreeView Pro automatically starts FreeView Pro whenever your PC starts Windows.

Logout when window is minimized automatically logs out the current user whenever the minimize button is pressed.

Show DNS/IP address Enable this function, you will be able to see real DNS/IP address instead of

“ ***** ”.

Multi FreeView Pro Enable this function, the PC will be allowed to run multi FreeView Pro program on a PC.

Minimize windows when start program automatically minimize the FreeView Pro's window whenever the FreeView Pro program is started.

Exit option To select PC status after exiting DVR's program. Press the arrow buttons to switch among “Exit program”, “ Turn off “, “ Log off “or “ Restart “. Ex. Select “Turn off”, the Windows OS will automatically shutdown after exiting DVR's program.

Auto login Enable this function will automatically login by user name and password saved in the system.

TCP/IP port Enter the port of DVR, which you would like to automatically send the live video to remote client PC with the FreeView Pro when camera is triggered. The number of “Port” must be matched between FreeView Pro and DVR's software. **FreeView Pro default is 1501.**

Select default LAN card It will speed transmission while FreeView Pro PC installs more than one LAN card. Enable this function, the system will execute the default setting of LAN card.



Select sound alarm FreeView Pro will notify the event via the setting alarm sound directly when the camera is triggered and video loss of DVR. You can record alarm sound file by yourself.

Site rotation time You can set the rotation time for each site.

5-1-9. Playing Back Video Clips

FreeView Pro can play both videos stored on your remote client computer and on the Local DVR Server. You can specify your search parameters, as below.

Search for recording video files on the remote client computer

1. Click  on the tool bar, and click  in the middle of right side to search the video clips saved on remote client computer (the computer which installs software FreeView Pro) You should see the window as **Fig 5-1-9.1**.

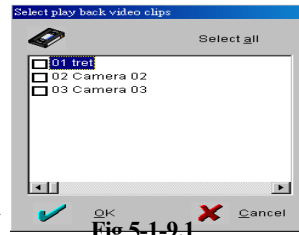


Fig 5-1-9.1

2. Select the site that you wish to search for videos of DVR site.
3. Enter a date and time into **After Date**, **Before Date** or both.
4. Click the **Search** button. All videos stored on the specified site during the specified period will be listed as **Fig 5-1-9.2**. Click the cameras you wish to display and click **“Ok”**. The videos will play concurrently.

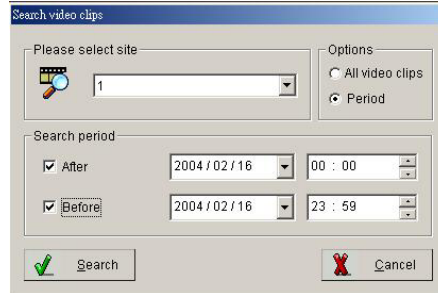



Fig 5-1-9.2

Remote playback video files on one Local DVR Server

1. Click  on the tool bar; enter the **site name** and **IP address or ID code** of Local DVR Servers where the video clips you want to play back stored on. Select **“Remote Playback”** on **“Play with”** box, then click **“Connect”**. And you will see the **Fig 5-1-9.3**.
2. Decide which recording way will be searched by **“Options”**.
3. Enter a date and time into **After**, **Before** or both.
4. Click the **Search** button. All files during the specified period will be listed. Click the cameras you wish to display and click **“Ok”**. The videos will play concurrently.

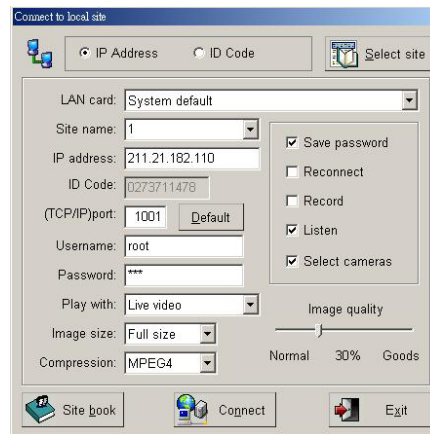



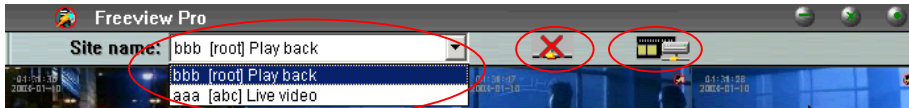
Fig. 5-1-9.3

Remote playback video files on multiple Local DVR Servers

Please connect to all Local DVR Server sites you want to play back and please make sure you already select **Remote playback** on the **Play with** box. Then you could play back videos in multiple sites concurrently. For **Splitter** function, please refer “**Concurrently monitor multiple Local DVR Servers**” of Chap. 4-4-5.3.


Specify one site or cameras to Playback from multiple connections

From **Site name** box, select a site you want to play back. You also could specify the cameras in one site by click .



Disconnect one site from

connections

Click  to disconnect with the site you select from **Site name** box.


Remote playback tool bar When viewing camera(s) of Local DVR Server, you can right click of mouse the video of screen to bring up more options as below.

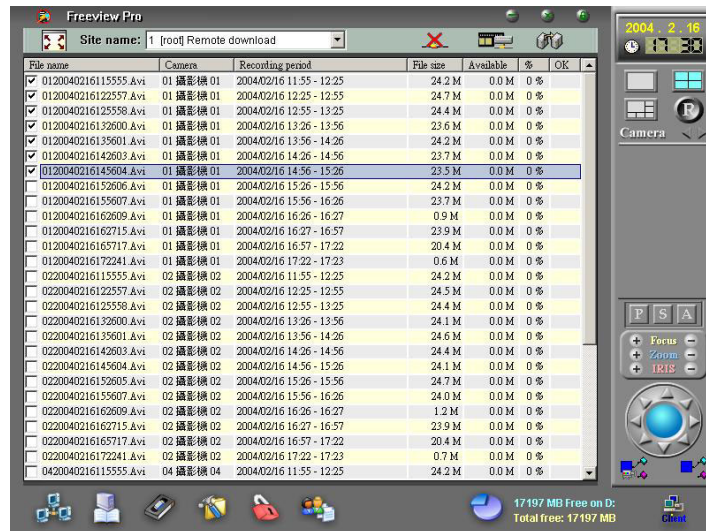



on

5-1-10. Remote Download Video Clips


You can easily download video clips of DVR on remote client computer via FreeView Pro. Please specify your search parameters of download, as below.

1. Click  on the tool bar; enter the **Local site** and **IP address** or **ID code** of Local
2. Video Servers where the video clips you want to download stored on. Select “**Remote download**” on “**Play with**” box, then click “**Connect**”.
3. Decide which recording way will be searched by “**Options**”.
4. Enter a date and time into **After**, **Before** or both.
5. Click **Search** button. All files during the specified period will be listed. Click the cameras you wish to download and click “**OK**”. The select video clips will be listed concurrently. (As below picture)



6. Select the video file which you want to download.
7. Click icon  on the top right, start or stop to download the video clips.


Disconnect one site from connections

Click  to disconnect with the site you select from **Site name** box.

5-1-11. Remote Setting the parameters of Witness series Pro

FreeView Pro allows remote client to control the Witness Pro server via EzRClient program through Internet or Intranet. The Remote client can set up the DVR server from remote site such as operating at the local. Control the Witness Pro server by through the following steps:

Step 1. Connect to the Internet with your remote client computer and Witness Pro server first.

Step 2. On DVR Server site Click  icon to enable the **Remote Server- EzRServer** program and you should see below window (**Fig 5-1-11.1**). Enter “**Password**” and save it. Keep the EzRServer program running.

Step 3. On FreeView Pro Client site Click  on the bottom **Tool bar** of FreeView Pro and you should see below window. (**Fig 5-1-11.2**)

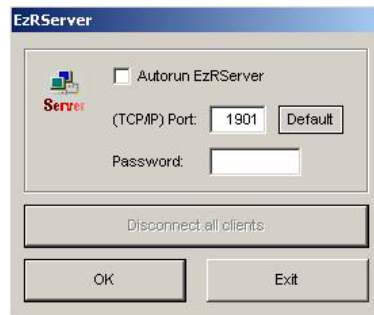


Fig 5-1-11.1

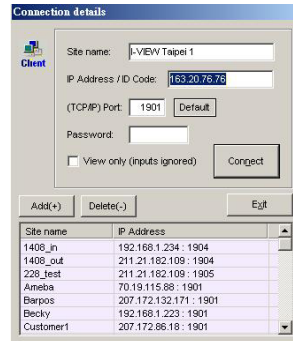


Fig 5-1-11.2

Step 4. Create a specified user account name in Local **EzRclient** program before connecting.

Step 5. Entry the **IP address/ID Code**, **Password** and then press “**Connect**” button to connect to the DVR sit. The number of “**TCP/IP Port**” must be matched between both sites.

Step 6. Click “**Add**” to save above information, then you can easily select when you connect again.

Step 7. Click “**Exit**” icon near the middle right of Control window to disconnect.



When enable “**View only**”; you can view the window of local site server only when the server is connected.

Step 8. Click “**Add**” to save above information, then you can easily select when you connect again.

Step 9. Click “**Exit**” icon near the middle right of Control window to disconnect.

Chapter 6 Remote Client PDAView Software

PDAView Pro is a remote view application for PDA and Smart Phone device. It can run on PDA using Pocket PC 2002 or 2003 and smart phone using Windows Mobile 5.0 Operating System. These sections discuss PDAView Pro and how to use it. The main purpose of PDAView Pro is to provide a way to connect to the Local DVR Server (where you are running DigiCap II, Dsecu and Witness Pro DVR) to monitor the cameras there if you happen to be far away from it. With PDA you can begin to use automatic remote video security and surveillance via the Wireless LAN or Internet.

6-1. PDAView Program Installation and Operation

The tool menu bar (Please refer Fig 6-2.1) enables you to easily use TCP/IP to connect to the Local DVR Server via Wireless LAN or Intranet, control the video channels of the Local DVR Server, display Local DVR Server video channels, save video files, and configure exactly how you want the program to work.

To install the PDAView Pro program into a PDA or Smart Phone, please follow the installation steps below:

1. Plug your PDA or Smart Phone via USB or Com port to a PC installed with Microsoft ActiveSync.
2. Run Microsoft ActiveSync in the connected PC and make sure both the PDA and PC are synchronized.
3. Insert our CD into the CD-ROM drive of the PC and run “**Install.exe**“ in the CD-ROM root directory.
4. In the setup dialog box select “**PDAView Pro**” and click “**Next**”.
5. Click **Brows** if you wish to specify another destination directory; otherwise click “**Next**” and follow the rest of the instruction to complete the installation.



The PDA must use the Pocket 2002 or 2003 and the Smart phone with Windows Mobile 5.0 or above Operation System when you running the PDAView program.

6-2. PDAView Program Installation and Operation



Fig 6-2.1

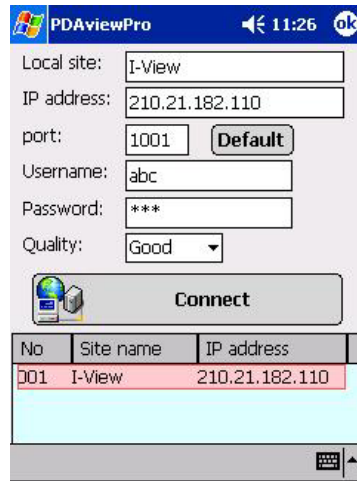


Fig 6-2.2

The tool menu bar (Please refer Fig 5-2.1) enables you to easily use TCP/IP to connect to the Local DVR Server via Wireless LAN or Intranet, control the video channels of the Local DVR Server, display Local DVR Server video channels, save video files, and configure exactly how you want the program to work.



Many of the functions in PDAView Pro behave similarly or even identically to those of Witness Pro DVR and FreeView Pro.

6-3. Connecting to DVR site

This chapter describes how to connect to Local DVR Server via wireless LAN or Internet.

Once PDAView Pro is installed into your PDA device, you will be able to use it to monitor DVR video.



1. Load the PDAView Pro from the CD-ROM. (Please refer to Fig 6-2.1)
2. Click the PDAView Pro icon in your PDA to start the application.
3. Click  on the bottom **Tool bar**, and please refer to Fig 6-2.2.
4. Enter the “**IP Address**”, “**User name**” and “**Password**”.
5. The number of “**Port**” must be matched between PDAView Pro and DVR’s software.
6. Choose an “**Image quality**”.
7. Press the “**Connect**” button to complete the process. PDAView Pro will connect you to the DVR’s. (Please refer to Fig 6-3.1)
8. Press the “**Camera**” button to select which camera you want to remote view.
9. Click  on the bottom **Tool bar** to disconnect when you finish communicating with the local site.



Fig 6-3.1

6-4. Using the Site Book



Using the Site Book Tool Menu Bar in PDAView Pro behaves identically to those of FreeView Pro. Please refer to Chapter 5-1-6.

No	Site name	IP address
001	I-View	210.21.182.110

Fig 6-4.1

Appendix A: Optimum CPU for each DVR model

Use the following table to determine which compressor to use. (MPEG 4)

<u>Bit Rate VS. Frame size</u>		<u>DVR Model VS. Min. CPU & RAM for MPEG4 Codec</u>		
1 M	1K/ Frame	<u>1400/2400AS</u>		
2 M	2K/ Frame	1 card	P III 550M	256 M
3 M	3K/ Frame	2 cards	P III 866M	256 M
.	.	3 cards	P 4 1.5G	512 M
.	.	4 cards	P 4 1.8G	512 M
.	.	<u>5408/5416ASE</u>	P 4 1.8G	512 M
.	.	<u>5404/3404HS</u>		
.	.	1 card	P 4 1.5G	512 M
.	.	2 cards	P 4 2.8G	512 M
.	.	3 card	P 4 3.2G	1 G
.	.	4 cards	E2160	2 G
32M.	32k/ Frame	<u>3160RD/2160RD/ 3320RD</u>	2.8 G	2 G
		<u>1908/1916ASE</u>		
		1 card	E2140	1 G
		2 cards	E2180	2 G
		<u>5408/5416ASE</u>		
		1 card	P 4 2.8 G	512 M
		2 cards	P 4 3.2 G	1 G
		<u>1932ASE</u>	E2160	1 G



IV H264 Codec request the CPU loading will higher 20% than MPEG4, and the H.264 codec will 200% higher than MPEG4. The testing environment bases on E4500 CPU, 2 G x DDR II RAM, Windows XP and Intel P35 Chipset.

Appendix B: DVR Board System Requirements

- **Operating System:** Windows 2000 (Service Pack 2 or above) or XP or Vista.
- **CPU Requisites:** Pentium IV 1.5 GHz is the minimum requirement; please refer to the table in Appendix A for CPU requirements detail.
- **Memory Requisites:** 512 MB RAM is minimum; 2 G RAM or better is recommended for Vista.
- **Hard Drives:** 7200 RPM hard drive speed or better is recommended.
- **VGA Card:** 24 bit (True-color) or better.
- **Sound card and speakers:** For alarm sound effects.
- **Microphone:** 2Vp-p output is required for audio recording.
- Modem speed 33.6K or better; external modem that supports Wave files is recommended.

Mother Socket Requirements:

Model \ Sockets	Slot	USB Port	Max card per PC
1400AS	1 x PCI Slot	0	4
2400AS	1 x PCI Slot	1 (Total)	4
3404HS	1 x PCI Slot	0	4
5404HS	1 x PCI Slot	1/ Card	4
5408/5416ASE	1 x PCI Slot	1/ Card	2
1908/1916ASE	1 x PCI Slot	1/ Card	1
1908/1916ASE P-E	1 x PCI_E Slot	1/ Card	2
2160RD P-E	1 x PCI_E Slot	1/ Card	2
3160RD	1 x PCI Slot	1/ Card	1
3320RD	2 x PCI Slot	1/ Card	1