DigiCap II

Embedded DVR

System Operation Manual

Secure your place at Anytime from Anywhere

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iview
A Safe Life

Table of Contents

About This Guide ---------- **6**
FCC Compliance Statement ---------- **6**
FCC Warning ---------- **6**
License Agreement ---------- **7**
Trademark ---------- **9**
Customer Support ---------- **10**
Chapter 1 Product Introduction ---------- **11**
1-1. Product Package Content ---------- **11**
1-2. Product Feature ---------- **12**
1-3. Product Overview ---------- **13**
1-3-1. Front Panel of DVR System ---------- 13
1-3-2. Back Panel of DVR System ---------- 16
1-3-3. DVR Remote Controller Functions ---------- 20
Chapter 2 Hardware Installation ---------- **22**
2-1. Before You Proceed ---------- **22**
2-2. Hardware Requirement ---------- **23**
2-3. DVR Platform Layout ---------- **24**
2-4. Central Process Unit (CPU) Installation ---------- **26**
2-4-1. CPU Installation: ---------- 26
2-4-2. The heat sink and fan installation ---------- 27
2-5. Memory Module Installation ---------- **28**
2-6. HDD Installation ---------- **29**
2-7. PTZ Camera Installation ---------- **32**
Chapter 3 DVR Operating System ---------- **35**
3-1. DVR System Control Panel Configuration ---------- **36**
3-1-1. Adjust Date / Time ---------- 38
3-1-2. Setup Network Connections ---------- 38
3-1-3. Display Properties ---------- 40

3-1-4. Disk Management ----------42
3-1-5. Setup Share Folders ----------44
3-1-6. Adjust Volume Control ----------46
3-1-7. Saving System Information ----------46
3-2. DVR Main Program ----------47
3-2-1. Program Overview ----------47
3-2-2. Setup Video Parameters – EzSetup ----------49
3-2-3. Surveillance Server-DigiCap II DVR Series ----------54
3-2-3-1. Start to Login the Surveillance Server ----------57
3-2-3-2. Camera Configuration ----------58
a.) General ---------- 58
b.) Recording ---------- 59
c.) Motion Setting---------- 72
d.) Video Loss ---------- 75
e.) Camera position---------- 76
f.) POS & FingerKey ---------- 77
3-2-3-3. EzSyncPlayback ----------80
3-2-3-4. Playback Video Clips ----------86
3-2-3-5. Network Configuration ----------88
3-2-3-6. System Configuration/EzTools ----------91
3-2-3-7. Setup Privileges ----------96
3-2-3-8. View Log ----------98
3-2-3-9. Setup I/O ----------99
a.) Setup relay (Optional)---------- 99

b.) Control NetCom Module relay (Optional) -------- 100
c.) Emergency call ---------- 101
3-2-3-10. Storage Device Configuration ---------- 102
3-2-3-11. Video Control Panel ---------- 104
3-2-4. Playback Video Clips – EzLanPlayback ---------- 106
3-2-5. Text insert Playback – EzTextPlayback ---------- 108
3-2-6. Backup Video Clips – EzBackup ---------- 109
3-2-7. Web Browse Server – EzWebServer ---------- 112
3-2-8. Remote Control Server – EzRSever ---------- 116
3-2-9. System Reboot Schedule – EzReboot ---------- 117
3-2-10. Sync System Clock – EzClock ---------- 118
3-2-11. Two Way Communication – EzSTalk ---------- 119
3-2-12. Fingerprint Access Controller – EzFingerKey ---------- 120
Chapter 4 Remote Client PC Software ---------- 121
4-1. Remote Client Software System Requirement ---------- 121
4-2. Remote Client Software Installations ---------- 122
4-2-1. FreeView Pro Software Installation ---------- 122
4-2-2. AnyView Pro Software Installation ---------- 123
4-3. Start Using Remote Client Program ---------- 124
4-3-1. Start Using FreeView Pro ---------- 124
4-3-2. Start Using AnyView Pro ---------- 125
4-4. FreeView Pro/AnyView Pro Program Operation ---------- 126
4-4-1. Connecting to Local DVR SEVER ---------- 128
4-4-2. Video window Function Description ---------- 131
4-4-3. Using the Site Book ---------- 133
4-4-4. System configuration ---------- 134

4-4-5. Playing Back Video Clips ---------- 135
4-4-6. Remote Download Video Clips---------- 138
4-4-7. Remote Setting the parameters of DigiCapII DVR ---------- 139
Chapter 5 Remote Client PDA Software---------- 140
5-1. PDAView Installation---------- 140
5-2. PDAView Program Operation ---------- 141
5-3. Connecting to DigiCapII Series DVR site ---------- 142
5-4. Using the Site Book ---------- 143

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.

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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

1-1. Product Package Content

Thank you for choosing the I-View DigiCap II Stand Alone DVR (Digital Video Recorder). Before you start installing the hardware devices with the DVR, please check the items of the product package with the list below,

✓ **DigiCap II Stand Alone DVR**

✓ **Application program CD and Nero CD**

✓ **1x SATA disk cable and 1 x 80-conductor IDE cable**

✓ **Remote controller, battery and 1 x A/V cable**

✓ **1 x 16 channel Audio input cable (Digi-1600XP-A only)**

✓ **1 x 16 channel video input cable (Digi-3200Pro only)**

✓ **16 channel video loop cable (Optional)**

✓ **2 x Ear panel (For 19" Rack mount)**

✓ **Screws (For Hard disk and Ear panel)**

✓ **USB Mouse & DVI to VGA converter (For second monitor)**

✓ **User manual & Power cable**

If any of the above items is damaged or missing, contact your retailer.

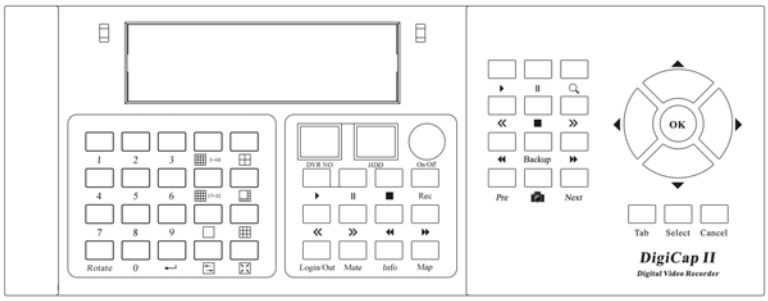
1-2. Product Feature

- **Superior Video Quality:** With MPEG4 Hardware Compression, up to 480/400FPS recording base on 720x480/720x576 resolutions.
- **Stability:** The embedded feature avoids system crash and virus problem.
- **Display:** Max. 960 FPS display rate, up to 32 videos input.
- **Recording Modes:** Continuous, Alarm, Motion Detection, Instant & Scheduled.
- **Motion Detection:** Sensitivity control and flexible area setting.
- **eMap:** Provide graphical site surveillance overview to indicate the position of the cameras, sensors and fingerprint access device of the area.
- **Intelligent Search:** Provide easy and fast function to search recorded video clips.
- **Watermark:** Built-In Digital Watermark which prevents images being altered or modified.
- **Video Loss:** Automatically notifies user when video signal lost due to abnormal conditions.
- **Alarm Notification:** Notifies via phone, email or live video, when alarm is triggered.
- **Dynamic IP Solution:** Provide Dynamic IP connecting solution
- **Web Browser/I.E.:** Search & playback of archiving and downloading options via Web Browser/I.E. can be remotely activated from anywhere, as also the monitoring of the video and audio clips of the DVR.
- **PDA Remote Viewing:** Special client site software supports Pocket PC for remote monitoring.
- **Remote Monitoring, Recording, Playback and Download:** Provide multi-type connection remote client monitoring program, which can connect to multiple sites (Up to 36 camera viewing per screen) simultaneously with Monitoring, Recording, Playback and Downloading functions.
- **Insert POS Transaction Data:** POS text can be superimposed on screen by means of video clips and projects remote live video via PTI-100 POS Text Inserter (optional).
- **Fingerprint Access Controller Integration:** Provide powerful audio and video recordings functions, fast search functions and easy even list playback etc.

1-3. Product Overview

1-3-1. Front Panel of DVR System

The buttons of the front panel provides user to operate the DVR basic functions (e.g. channel switching functions, display modes functions and playback functions … etc.), however, user will need a mouse to connect with the DVR for more detail system setting.



Left Section of the DVR Front Panel (Fig 1-3-1.1)

Press "**Number (0-9)+** " to view just one camera's image on the monitor or TV. For example: When you select " **1+6 +** ", then you will watch the channel 16 on monitor or TV.

Press key to divide the window into 4 split screens.

Press key to divide the window into 8 split screens.

Press key to divide the window into 9 split screens.

Press " **1-16** " key to divide the window into 16 split screens. (Camera 1 - 16)

Press " **17-32** " key to divide the window into 16 split screens. (Camera 17 - 32) (For Digi-3200Pro only)

Press " **Rotate** " key to rotate cameras views on screen automatically. Press " **0** " + " **Rotate** " the rotation will be stopped. The detail settings please refer to Chapter 6-3.

Press key to toggle between non real-time viewing (Recording mode) and real-time viewing (Live view mode) of video displays. The detail settings please refer to Chapter 6-3.

Press key will hide the tool bar of main screen until key is pressed again.

Press key that function same as enter or OK.

Middle Section of the DVR Front Panel (Fig 1-3-1.1 & Fig 1-3-1.2)

DVR NO.: Display for the ID address of DVR. The detail setting please refers to Chapter 5-3.

HDD: Indicate the status of HDD.

Press "**On/Off** " key to Turn on / off DVR.

Press " **Rec** " key to start recording the video. Press " **0 " + " Rec** " the stop recording. The detail settings please refer to Chapter 6-3.

Press "**Map**" to show the information and map of DVR. Press " **0 " + " Map** " to close the Map screen. The detail settings please refer to Chapter 7

Press "**Login/Out**" to login/logout of DigiCap II DVR. Press " **Cancel** " to close the function.

Press "**Mute**" to stop the sound alarm when camera is triggered.

Press ► key to play back all videos.

Press ❚❚ key once to pause all videos.

Press ■ key to stop playback all videos.

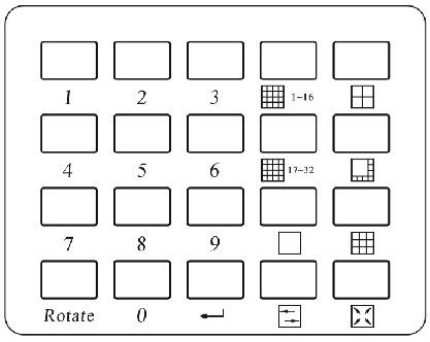
Press << key to jump to previous frame of all videos.

Press >> key to jump to next frame of all videos.

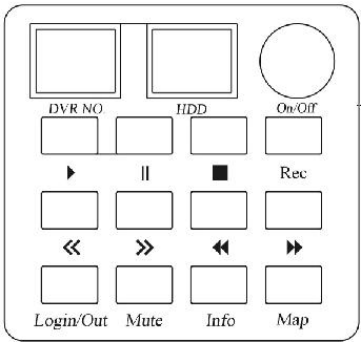
Press ◄◄ key to decreases the playback frame rate of all videos.

Press ►► key to increases the playback frame rate of all videos.

Press " **Info** " to list the information of all video clips, and you can quickly search and assign a video clip to playback. Press " **0 " + " Info** " to close this function.



(Fig 1-3-1.1)



(Fig 1-3-1.2)

Right Section of the DVR Front Panel (Fig 1-3-1.3)

Press key to search for videos in database. Press " **0** " + " " to close the playback function.

Press ► key to play back the video files which you select.

Press key once to pause the video file which you select.

Press ■ key to stop playback the video file which you select.

Press << key to jump to previous frame of the video file, which you select.

Press >> key to jump to next frame of videos file which you select.

Press ◄◄ key to decreases the playback frame rate of video file, which you select.

Press ►► key to increases the playback frame rate of video file, which you select.

Press " **Pre** " key to jumps to the previous video, which you select.

Press " **Next** " key to jumps to the next video, which you select.

Press " **Back up** " key will copy current video clip to a specific location for archiving. Press " **0** " + "**Back up** " to close the backup video file function.

Press " " key to capture the video screen as a BMP or JPEG format. Press " **0** " + " " to close the backup picture file function.

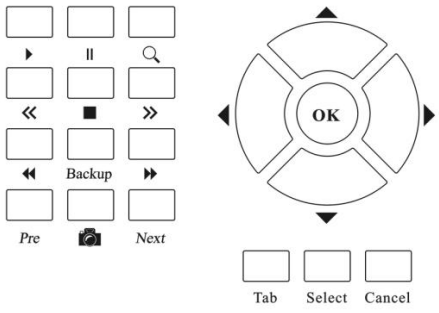
Press ▲(Up), ►(Right), ▼(Down) and ◄(Left) key to select the item.

Press " **OK** " key to enter the selection item.

Press " **Tab**" key to change the section.

Press " **Select** " key to enter the selection item.

Press " **Cancel** " key to quick the selection item.

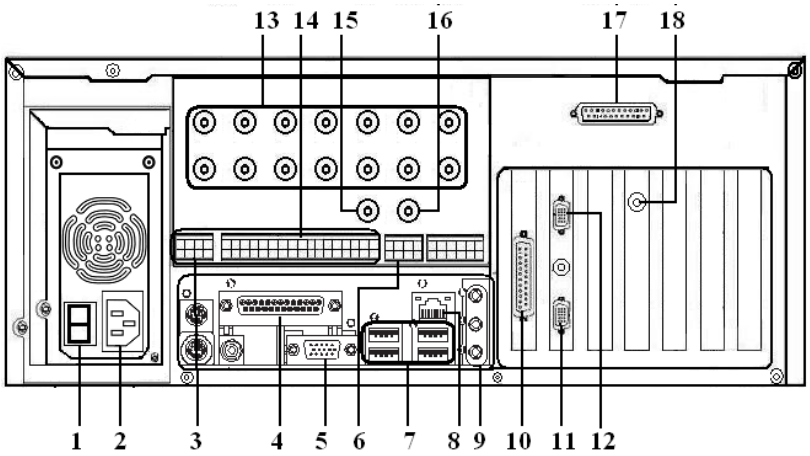


(Fig1-3-1.3)

1-3-2. Back Panel of DVR System

According to the different model of the DigiCap DVR, their back panel configuration may be different, please read carefully the introduction below.

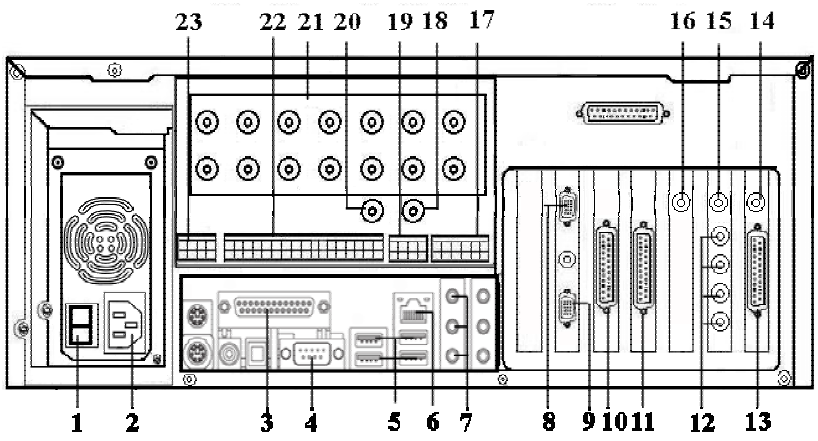
- **Digi-800XP / Digi-1600XP /Digi-1600-A Back Panel:**



1. **Power switch:** Turn on/off power supply.
2. **Power plug:** Plug power cable.
3. **RS-485:** The communication port to control the Speed Dome camera and P/T/Z camera.
4. **Printer port:** Connect to the printer.
5. **Series port:** Connect to RS-232 device such as Modem.
6. **Panic button port:** Connect to push button for emergency call. (For Dry contact input only)
7. **USB port:** Connect to USB device, such as USB external storage device.
8. **LAN port:** For TCP/IP connection.
9. **Audio plug:** Including Mic in / Line in / Speaker out.
10. **DVI port:** The second monitor connection port.
11. **Audio input/ or Video looping:** The optional 16 audio input or 16/8 (1-16 or 1-8) cameras video looping output.
12. **VGA port:** The first Monitor VGA port.

13. **Video in:** 1-16 video input.
14. **Sensor input:** 16 sensors input. (For Dry contact input only)
15. **Video out 1:** Display 1-16 splitter video on TV
16. **Video out 2:** Display pop-up video when camera is triggered automatically
17. **Relay output:** 3 relay output.
18. **No used**.
19. **TV out:** The TV output port can be rotated or assigned the camera to display on TV by software or remote controller, also can be setup to pop-up camera on TV when camera is triggered by software. There is optional function for audio listen port and the connector type will be S-video connector.

- **Digi-1600 Pro/ Digi-3200 Pro Back Panel Description:**



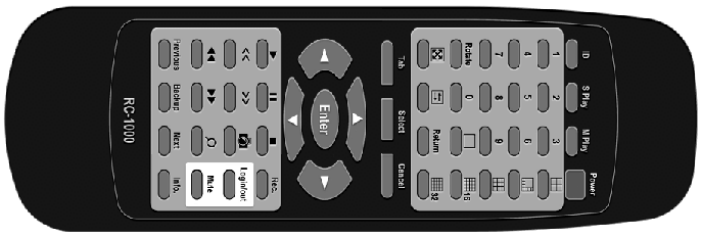
1. **Power switch:** Turn on/off power supply.
2. **Power plug:** Plug power cable.
3. **Printer port:** Connect to the printer.
4. **Series port:** Connect to RS-232 device such as Modem.
5. **USB port:** Connect to USB device, such as USB external storage device.
6. **LAN port:** For TCP/IP connection.
7. **Audio plug:** Including Mic in / Speaker out /Line in.
8. **VGA port:** The first Monitor VGA port.
9. **DVI port:** The second monitor connection port.
10. **Video loop out:** The optional 16 (1-16) cameras video looping output.
11. **Video loop out:** The optional 16 (17-32) cameras video loop out (For Digi-3200Pro only)
12. **Audio input:** 1-4 audio input. (For Digi-3200Pro-A and, Digi-1600Pro-A only)
13. **Video in:** 17-32 cameras video input. (For Digi-3200 Pro only)
14. **TV out # 3:** Display pop-up 17-32 camera on TV when camera is triggered automatically (For Digi-3200Pro only)
15. **TV out # 1 (RCA):** The TV output port can be rotated or assigned the camera to display on TV by software or remote controller, also can be setup to pop-up 1-16/ 1-32 camera (Single

video) on TV when camera is triggered.

16. **TV out #2:** Display pop-up 1-16 camera on TV when camera is triggered automatically (For Digi-3200Pro only)
17. **Relay output:** 3 relay output.
18. **Video out 2:** Display 17-32 splitter video on TV when the DVR model is Digi-3200Pro. Display pop-up 1-16 camera (Single video) on TV when camera is triggered automatically (For Digi-1600Pro).
19. **Panic button port:** Connect to push button for emergency call. (For Dry contact input only)
20. **Video out 1:** Display 1-16 splitter video on TV
21. **Video in:** 1-16 video input.
22. **Sensor input:** 16 sensors input. (For Dry contact input only)
23. **RS-485:** The communication port to control the Speed Dome camera and P/T/Z camera.

1-3-3. DVR Remote Controller Functions

The buttons functions of the remote controller are for user to operate the DVR basic functions (e.g. channel switching functions, display modes functions and playback functions … etc.), however, user will need a mouse to connect with the DVR for detail system setting.



Playback single video file

If you want to playback the single video clip, press " **S Play** " key and then select the function key of playback.

Playback multi videos file

If you want to playback the single video clip, press " **M Play** " key and then select the function key of playback. (Default is M Play mode) The he functions in Remote controller behave similarly of chapter 5-2 Middle Near Panel.

Display single video out on TV

If you want to control the Single video out on TV, press "Number key+ **S Play** " displays the single video on TV. For example For example: When you select " **1+6 + S Play** ", then you will watch the channel 16 on monitor or TV. Press "**0 + S Play** " to rotate all camera on TV.

Display split-screen video out on TV

Press the " **Number key** + function key "or " , , , **1-16** or **17-32** " key directly to show single or split-screen video on TV.

Control multi DVRs via single Remote controller

Sometime there are several DVRs in one place. Please follow the below steps to control multi

DVRs via single Remote controller:

1. There is a Dip switch on the inside of front panel for the setting ID address of DVR, the setting description as below:

↑:Disable ↓: Enable, S5-S8: No function

S1-S4: For ID address setting; the table of ID address as below

Switch / ID	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
S1	↑	↓	↑	↓	↑	↓	↑	↓	↑	↓	↑	↓	↑	↓	↑	↓
S2	↑	↓	↓	↑	↑	↓	↓	↑	↑	↓	↓	↑	↑	↓	↓	↑
S3	↑	↓	↓	↓	↓	↑	↑	↑	↑	↓	↓	↓	↓	↑	↑	↑
S4	↑	↓	↓	↓	↓	↓	↓	↓	↓	↑	↑	↑	↑	↑	↑	↑

2. It will show the ID address on the LED of front panel after your setting Dipswitch.

The default ID address is " 0 ". It does not need to change the setting when use a DVR only. Control the DVR via Remote controller directly.

The keypad of front panel will be no function when the LED is flashing.

3. Press " **ID** " key and then select the "**Number** " of DVR, which you want to control. The number LED of front panel will be flashed. You can start to use the Remote controller when the LED is flashing.
4. Press " **Return** " key to stop the function of Remote controller.

Chapter 2 Hardware Installation

After user finish the CPU, RAM and HDD installation, please remember to go to the system Control Panel to configure the DVR system for installed hardware devices operating properly. For detail about the setup DVR system configuration in control panel, please refer to chapter **3-1 DVR system Control Panel Configuration**.

2-1. Before You Proceed

Take note of the following precaution before you install the components (CPU, HDD and RAM).

1. Unplug the power cord from the wall socket before touching any component.
2. Use a grounded wrist strap or touch a safety grounded object or to metal object, such as the power supply case. Before handing components to avoid damaging them due to static electricity.
3. Hold components by the edges to avoid touching the ICs on them.
4. Whenever you uninstall any components, place it on a grounded antistatic pad or in the bag that came with the component.
5. Before you install or remove any component, ensure that the power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to DVR, peripherals, ans/or components.

2-2. Hardware Requirement

- CPU & RAM request, please refer to the table 2-2.1.
- 7200 RPM hard drive speed or better recommended..
- Speakers are required for sound alarm/effects.
- Microphone with 2Vp-p output required for audio recording.

Table 2-2.1.

Item / DigiCap Model	CPU	RAM	Remark
Digi-1600 XP	Pentium 630 or better	2 GB (DDR 400 or above)	NTSC:720X480 PAL: 720X576
Digi-800 XP	Pentium 630 or better	2 GB (DDR 400 or above)	NTSC:704X480 PAL: 704X576
Digi-1600 Pro	Pentium D-930 or better	1.5 GB (DDR II 533 or above)	NTSC:704X480 PAL: 704X576
Digi-3200 Pro	Pentium D-930 or better	2 GB (DDR II 533 or above)	NTSC:704X480 PAL: 704X576

2-3. DVR Platform Layout

Please recognize the DigiCap model platform layout carefully to install the DVR

The platform layout will be changed, so please refer to the inside cover cap of DVR before you start to install the parts.

- **Digi-800XP / Digi-1600XP/Digi-3200-A / Digi-1600 Pro -A Platform Layout:**

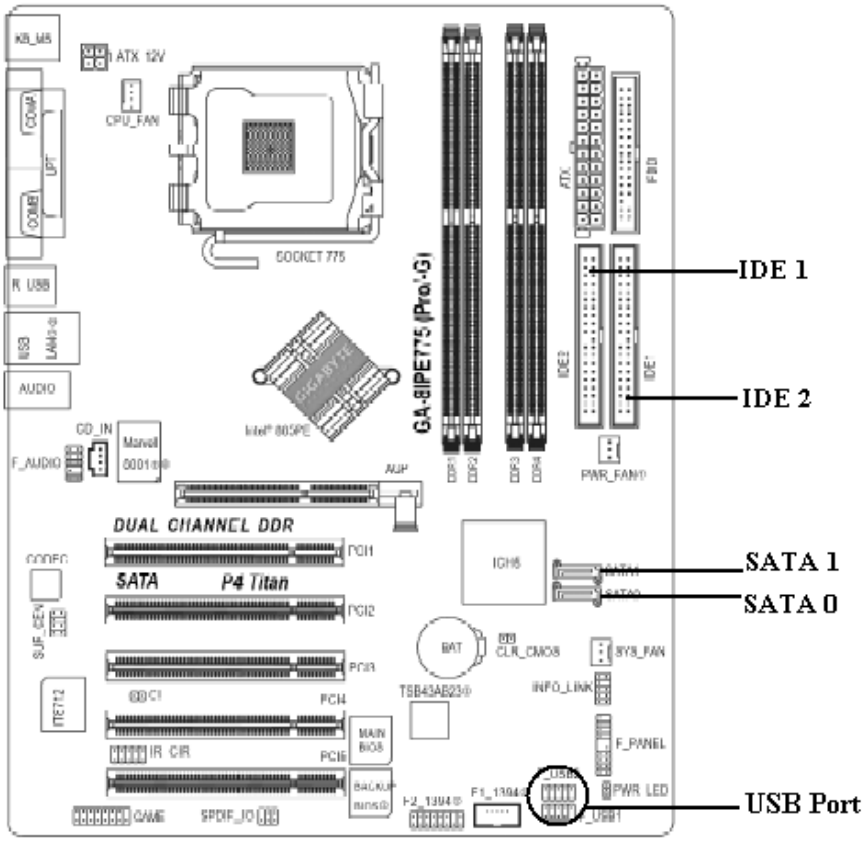


Fig. 2-3.1

- **Digi-1600 Pro/Digi-3200 Pro Platform Layout:**

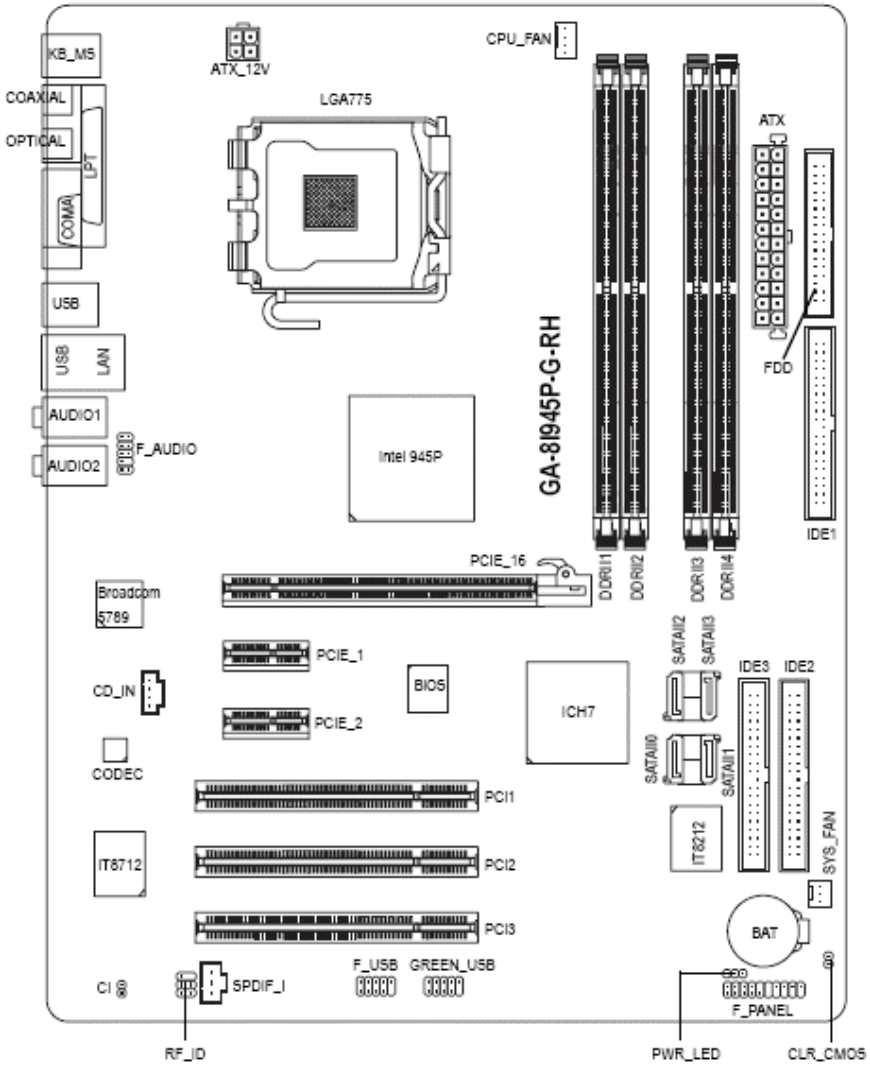


Fig. 2-3.2

2-4. Central Process Unit (CPU) Installation

2-4-1. CPU Installation:

The DVR's board comes with a surface mount Socket 775 (LGA775) design for Intel Pentium 4 Processor in the 755-land package.

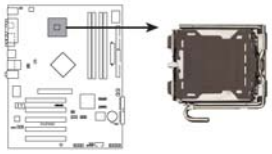


Fig.2-4.1

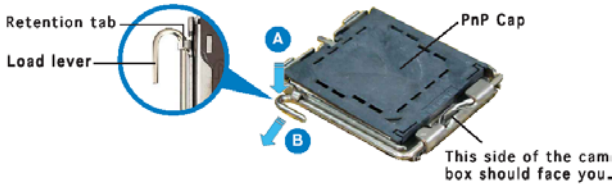


Fig. 2-4.2

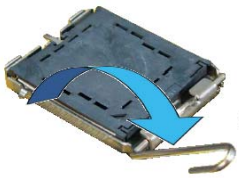


Fig. 2-4.3

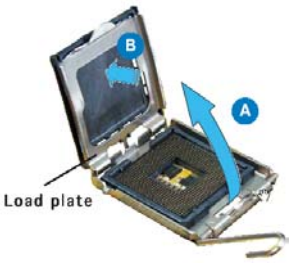


Fig. 2-4.4

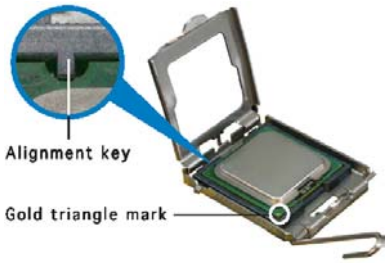


Fig. 2-4.5

Follow the steps below for CPU installation

1.) Locate the CPU socket on the platform. (Fig. 2-4.1).

2.) Press the load lever with your thumb (A) and remove it to the left (B) until it is released from the retention tab. (Fig. 2-4.2)

3.) Lift the load lever in the direction of arrow to a 135-degree angle. (Fig. 2-4.3)

4.) Lift the load plate with your thumb and forefinger to a 100-degree angle (A), and then push the PnP cap from the load plate window to remove (B). (Fig. 2-4.4)

5.) Position the CPU over the socket, making sure that the gold triangle is on the bottom-left corner of the socket. The socket alignment key should fit into the CPU notch. (Fig. 2-4.5)

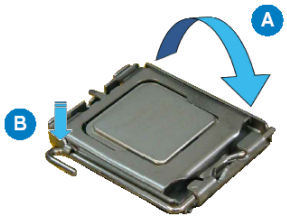


Fig. 2-4.6

6.) Close the load plate (A), then push the load lever (B) until it snaps into the retention tab. (Fig. 2-4.6) The CPU fits in only correct orientation.

1. Unplug the power cord from the wall socket before touching any component.
2. DO NOT force the CPU into the socket to prevent bending the connectors on the socket and damage the CPU!

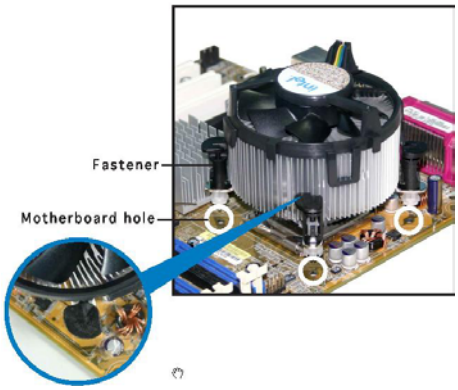


Fig. 2-4.7

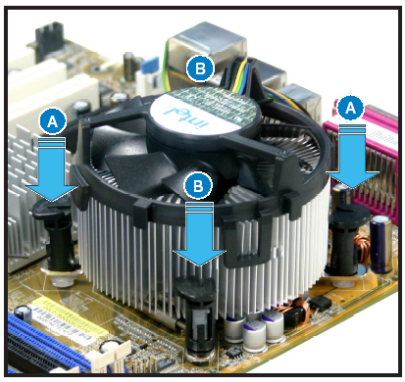


Fig. 2-4.8

2-4-2. The heat sink and fan installation

1.) Place the heat sink on the top of the installed CPU, making sure that the four fasteners match the hole of platform.

2.) Push down two fasteners at a time in a diagonal sequence to secure the heat sink and fan assembly in place.

2-5. Memory Module Installation

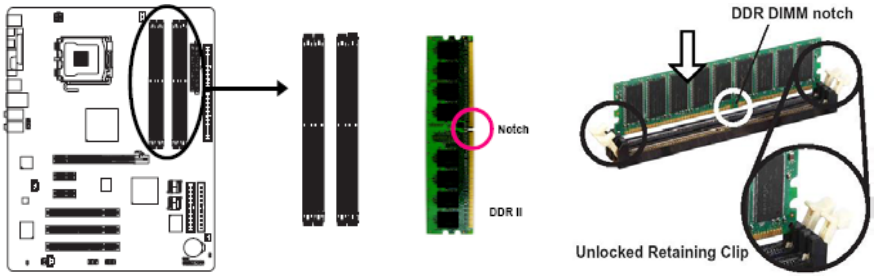
The Platform comes with Double Data Rate II (DDR II for Digi-3200 Pro) or Double Data Rate (DDR for Digi-1600/800 XP & Digi-1600 Pro) socket. These sockets support up to 4 GB system memory.

For optimum capability, it is recommended that you obtain memory modules from the same vendor.

The following figure shows the location of DDR / DDR II sockets and steps to install a RAM.

1. Unlock a socket by pressing the retaining clips outward.
2. Align a DIMM on the socket such that the notch on the DIMM matches the break on the socket.
3. Firmly insert the DIMM into socket until the retaining clips snap back in place and the DIMM is properly seated.

Make sure to unplug the power supply before adding or moving DIMMs or other system components. Failure to do so may cause severe damage to both the platform and the components.



2-6. HDD Installation

The Platform comes with 3 IDE sockets (1st and 2nd IDE) and 4 SATA sockets. The DigiCapII series DVRs support up to 4 HDD (UltraDMA 100/66 and SATA or SATA II HDD).

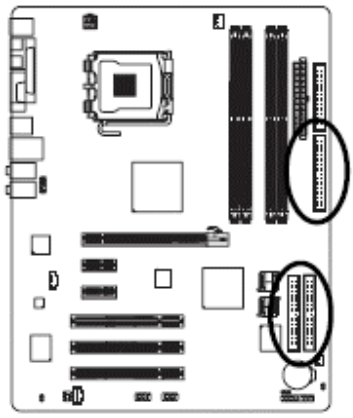
For optimum recording performance, it is recommended that you obtain HDD with 7200 RPM or better.

The default setting of the manufacture for the 1st IDE socket is used of the CD-RW/DVD+-RW and flash memory, so please install the UltraDMA HDD on the 2nd IDE and 3rdIDE socket.

Please follow the steps below to install the UltraDMA and Series ATA/SATA II Hard disk.

Step1: Remove the case cover of the DigiCapII Series DVR.

Step2: Use the IDE cable(s) or /SATA/SATA II cable(s) to connect with the hard drive(s) (UltraDMA 66/100 or SATA/SATA II HDD) and the motherboard connectors(s) (IDE cable for the IDE slot and SATA cable for the SATA II slot) as showing in Fig. 2-6.1 and Fig. 2-6.2.



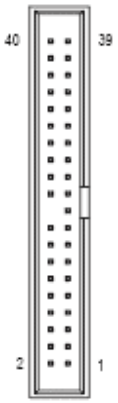
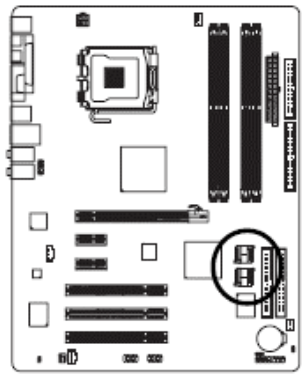
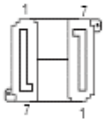


Fig. 2-6.1 IDE slots





Pin No.	Definition
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

Fig. 2-6.2 SATA slots

1). One IDE connector of the motherboard can connect to one IDE cable, and the single IDE cable can connect with two IDE hard devices. However, if user tries to install two hard drives with an IDE cable in an IDE slot, please set one hard drive's jumper as the **Master** and the other one as the **Slave.** For more information about how to set the jumper of the hard drive, please refer to the hard drive label on the top or its user guide.

2). If user tries to install the SATA/SATA II hard drive(s) for DigiCapII image storage, please use SATA cable(s) to connect with the SATA/SATA II hard drive(s) and the motherboard SATA slots for optimum data transmission performance.

Step3: Connect the inner power cables with each hard drives as showing in Fig.2-6.3 and Fig.2-6.4.

IDE

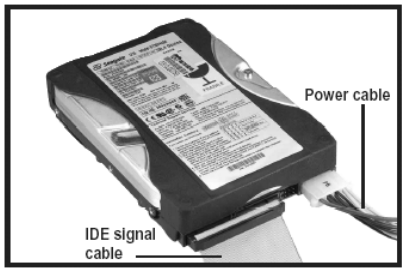


Fig. 2-6.3

Serial ATA

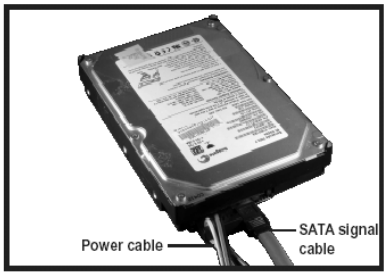


Fig. 2-6.4

Step4: Mount the connected hard drives into the DigiCap II inner chassis 1 and chassis 2 as showing in Fig 2-6.1 (Allows to install 6 HDD by optional extra RAID interface).

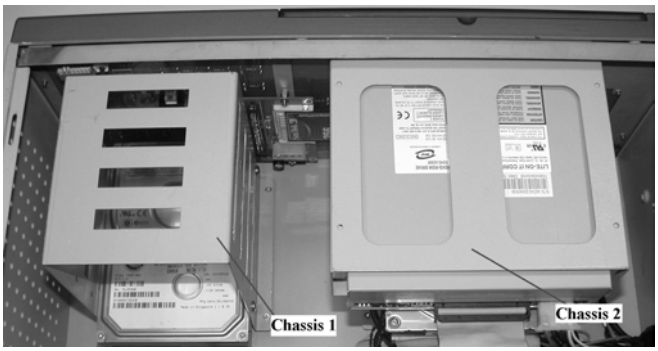
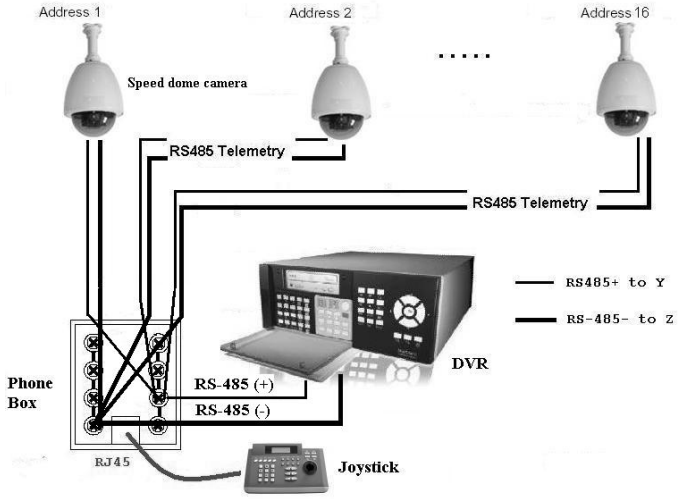


Fig 2-6.5 Chassis 1 and 2 for hard drive(s) installation

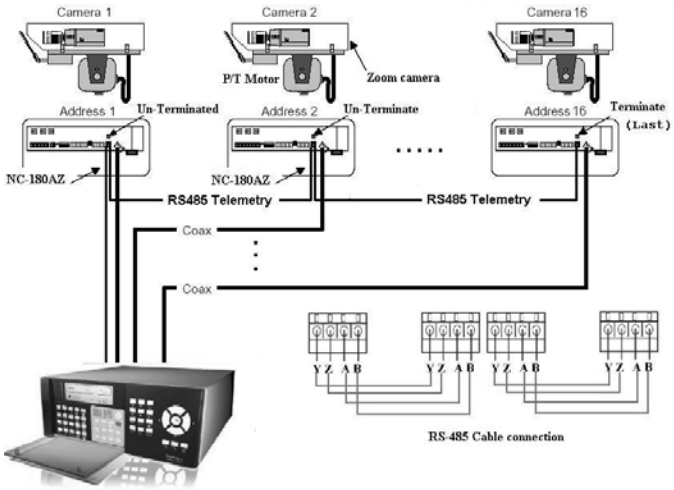
Step5: Screw back the DigiCapII case cover to complete the HDDs installation.

2-7. PTZ Camera Installation

- **Speed dome camera Installation :**



- **P/T Motor Installation :**

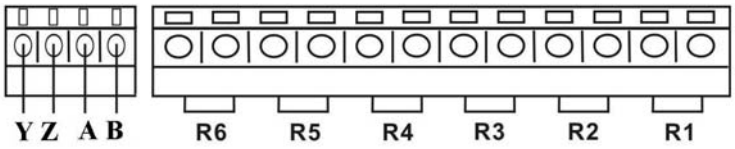


The last NC-180AZ PTZ Receiver must be terminated.

- **Speed dome controlling port description:**

■ **Pin assignment:**

RS-485 & Relay out



R1: Relay #1 out **R2:** Relay #2 out **R3:** Relay #3 out

R4: Relay #4 out **R5:** Relay #5 out **R6:** Relay #6 out

Y: Transmitter (+) **Z:** Transmitter (-) **A:** Receiver (+) **B:** Receiver (-)

■ **Relays output:** Connect one voltage line and ground of Controller (Such as light) to the desired "**Relay output**" number of Control Board.

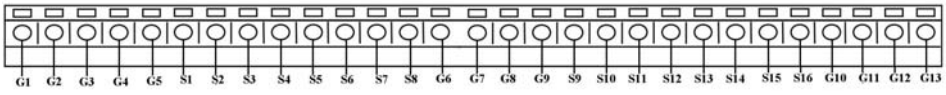
■ **RS-485:** Connect to NC-180AZ PTZ Receiver or Speed dome camera.

■ **Dip switch of 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	↑	↓	↑	↓

- **Digital input Module:**



G1 – G13: Common **S1:** Sensor #1(17) in **S2:** Sensor #2(18) in **S3:** Sensor #3(19) in

S4: Sensor #4(20) in **S5:** Sensor #5(21) in **S6:** Sensor #6(22)in **S7:** Sensor #7(23) in

S8: Sensor #8(24) in **S9:** Sensor #5(25) in **S10:**Sensor #6(26)in **S11:** Sensor #7(27) in

S12: Sensor #12(28) in **S13:** Sensor #13(29) in **S14:** Sensor #14(30) in **S15:**Sensor #15(31) in

S16: Sensor #16(32) in

- **Sensors in:** Each sensor-in port can receive trigger signals from other device to trigger video recording, alarm and notify function. Please use the dry contact for the sensor in; otherwise it will cause the damage of sensor input.

1. The “Sensor In” I port for Dry contact input only, otherwise it will cause the device damage.
2. The “Relay Out” port for NO (Normal Open) type device only.
3. The current must be less than 10A, when controlling electric device to relay output.

Chapter 3 DVR Operating System

- **DVR System Main Screen**

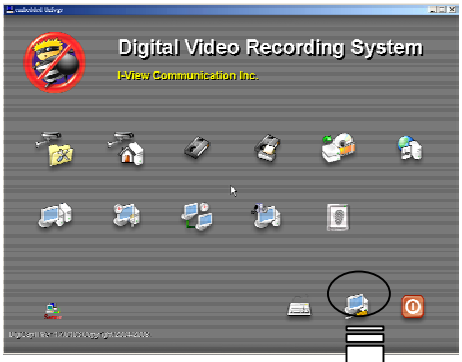
Take note of the following precaution before you start to configure the DVR system.

1. The DigiCapII provides Bar-bond system for the distributor, therefore it dose NOT include the CPU, HDD, RAM and License of Embedded XP. So you must install the CPU, HDD, RAM first by yourself. **Especially you MUST buy the license of Embedded XP from Microsoft, otherwise using the O.S. will be ILLEGALITY.**
2. You MUST obey the rules of Microsoft to process the license of Embedded. XP.
3. To avoid the virus problem, please remove the LAN cable and reboot DVR system when you start to setup the DVR system configuration.

3-1. DVR System Control Panel Configuration

Once user has finished the CPU, RAM and HDD installation, please click the Control Panel icon ( ) from the right side bottom corner of the DVR system main screen to configure the DVR system.

- **DVR System Main Screen**



Control Panel Icon ( ), Please click to enter the "Control Panel" interface

- **DVR System Control Panel**

◆ **Control Panel Function Description:**

● **Adjust Date/Time**– To adjust the system time clock.

● **Setup Network Connections**– To setup the system network configuration.

● **Display Properties**– To setup the system VGA display.

● **Disk Management**– To format hard disk when you install a new hard device.

● **Setup Shared Folders**– To setup the proper sharing folders for TCP/IP user.

● **Adjust Volume Control** –To adjust the system sound volume.

● **Save System Setting**– Press to make system configuration change effectively.

● **Set Up Password**– Allows you to setup a password to secure the system parameters of the DVR.

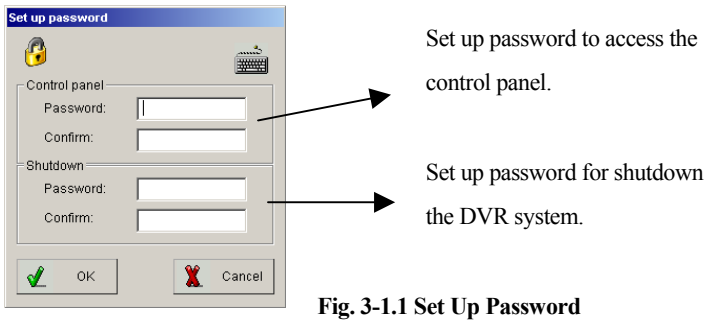


Fig. 3-1.1 Set Up Password

● **Keyboard**– Click this icon to display a mini keyboard on the screen for words input.

● **Return**– To return to the DVR system main screen.

3-1-1. Adjust Date / Time

Please click icon from Control Panel to set DVR system “Date & Time”, “Time Zone” and “Internet Time”.

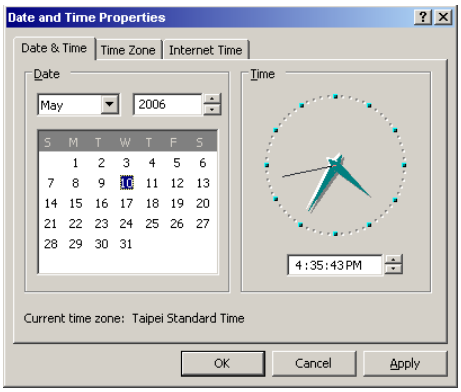


Fig. 3-1-1.1 Adjust Date/Time

3-1-2. Setup Network Connections

To have DVR remote monitoring and controlling capabilities, user needs to connect DVR with internet, and set up Network Connections configuration. Please follow the steps below to set up Network configuration.

1. Click icon on the control panel to enter Network Connection configuration display.

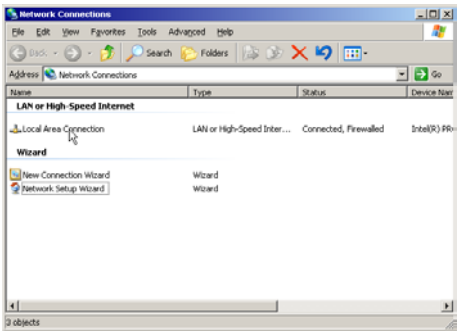


Fig. 3-1-2.1 Local Area Connection Setting

2. Click mouse right button on the “Local Area Connection” icon and select “Properties “item to

enter the “Local Area Connection Properties” display.

3. Double click the **“Internet Protocol (TCP/IP) “**item to enter the “**Internet Protocol (TCP/IP) Properties**”. Fill out the IP information in each section and press “OK” button twice to complete.

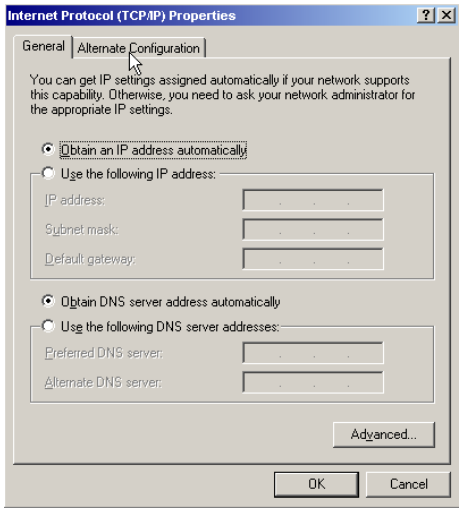


Fig. 3-1-2.2 Internet Protocol (TCP/IP) Setting

For detail about your network IP address setup, please contact your network supervisor or Local ISP provider for more information.

4. Once you have finished the “Internet Protocol (TCP/IP) Properties”, double click the “Network Setup Wizard” and follow then instruction to complete the “Network Connections” configuration.

3-1-3. Display Properties

To set up the DVR VGA card display property, simply click the icon on the control panel to enter the “Display properties” interface and press the “Settings” tap on the top for “Screen resolution” and “Color Quality” setting.

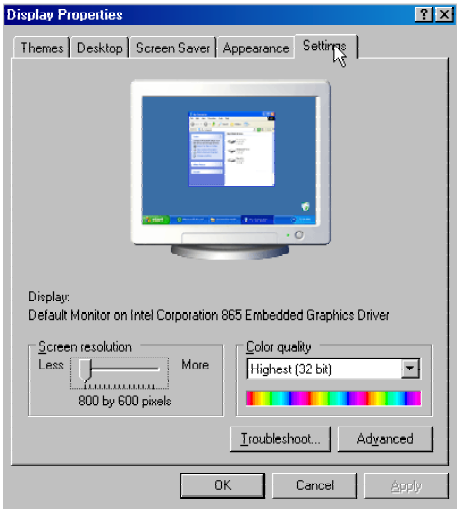


Fig. 3-1-3.1System Display Properties Setting

As Fig. 3-1-3.2 and Fig.3-1-3.3 showing, user can select dual monitor display while connect two monitors with DigiCap DVRs.

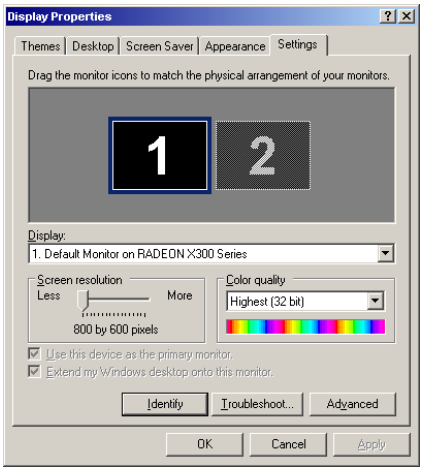


Fig. 3-1-3.2 System Display Properties Setting

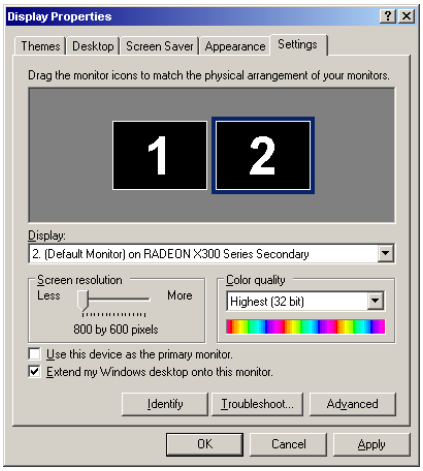


Fig. 3-1-3.3 Duel monitor display selection

While DigiCap II DVR connects two monitors, the default setting of the display properties is that the first screen is the primary display and the second screen is the extension display as showing in Fig.3-1-3.2. To set up the second monitor to be the primary display, simply select the number 2 icon and check the “Extend my Windows desktop onto this monitor” as showing in Fig.3-1-3.3.

3-1-4. Disk Management

This chapter walks you through the hard drive formatting in DVR system when you install a brand new hard disk. Please follow the steps below to format the hard disks.

1. Click icon to display the "Disk Management" interface.

2. Click the mouse right button on the new installing HDD, and select **"New partition "**item.

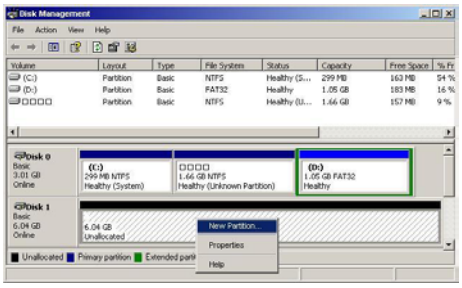


Fig. 3-1-4.1 Select "New Partition"

3. Press **"Next"** to start the format process.

4. Select "**Extended partition** "item and click **"Next"** button to continue.

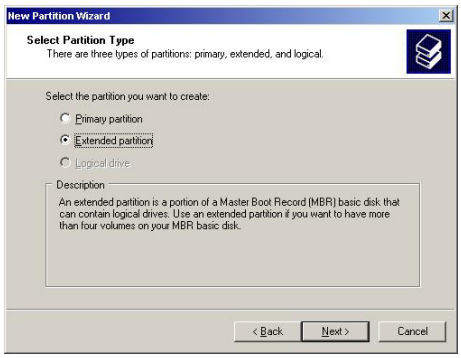


Fig. 3-1-4.2 Select "Extended Partition"

5. Click **"Next"** to specify partition size.

6. Click "**Finish** "icon to complete the new partition wizard.

7. Click mouse right button on the new HDD again, and select **"New Logical Drive"**.

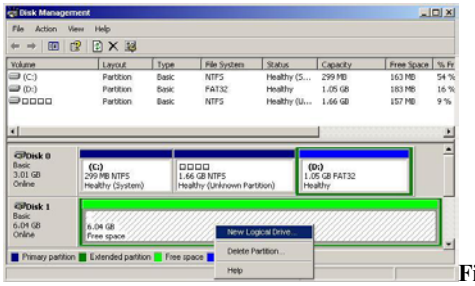


Fig. 3-1-4.3 Select "New Logical Drive"

8. Click **"Next"** to continue.

9. Select "**Logical drive** "partition type, and clicks **"Next"** to continue.

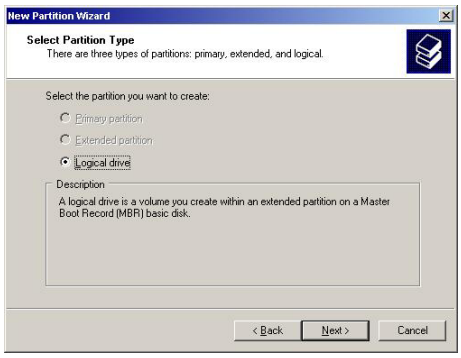


Fig. 3-1-4.4 Select "Logical drive"

10. Select "**Assign the following drive letter** "item, and click **"Next"** to continue.

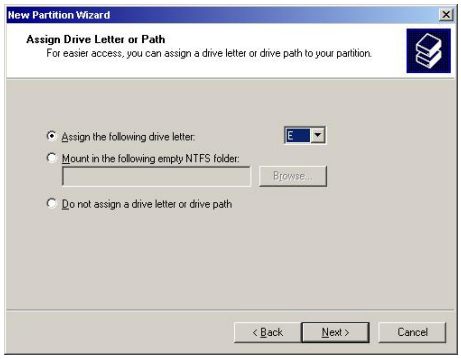


Fig. 3-1-4.5 Select "Assign the following drive letter"

11. Select "**Format this partition with the following settings** "item, and click **"Next"** to continue.

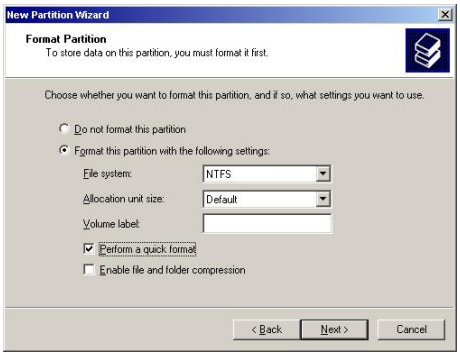


Fig. 3-1-4.6 Select "Format this partition with the following settings"

12. Click **"Finish"** to complete hard disk partition and format process**.**

13. Repeat Step 1-12 to format another Hard disk.

3-1-5. Setup Share Folders

This chapter will show you how to share the system folder (e.g. ClipPro folder) and to-be-view video files for remote network users. Please follow up the steps below to setup system sharing folders.

1. Click icon from the system control panel screen to display "Shared Folders" interface.

2. Select "**Shares** "folder, and click the **"Action"** button form the top, then select the " **New** " and " **File Share** " item to continue.

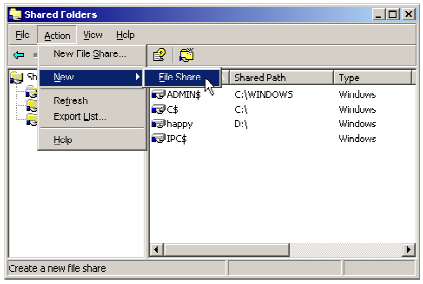


Fig. 3-1-5.1 Action→New→File Share

3. While the system displays a "**Create A Shared Folder Wizard**", please click "Next" button to continue.

Fig. 3-1-5.2 Create a Shared Folder Wizard

4. Please click the "Browse" button to select a folder which user wants to share, and fill in the "Share name" section, then press "Next" button and follow the instruction to complete the shared folder sharing.

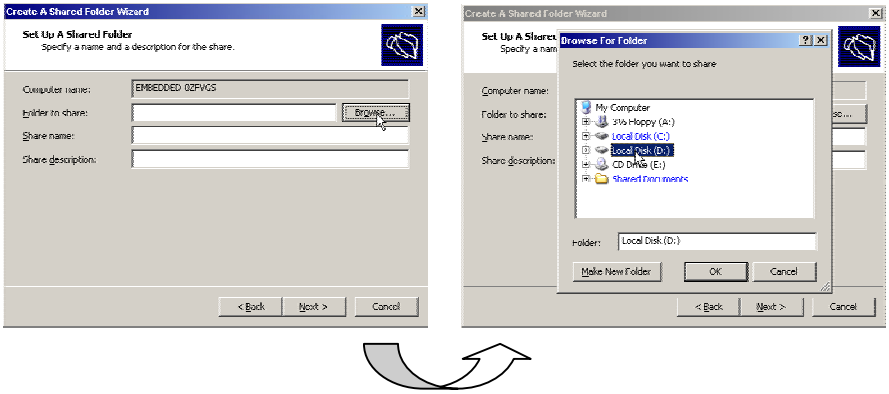


Fig. 3-1-5.3 Browse a share folder

3-1-6. Adjust Volume Control

Please click the icon on the system control panel screen to adjust the system volume.

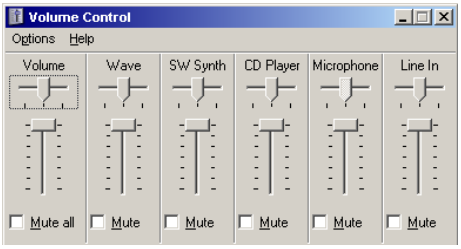


Fig. 3-1-6.1 Adjust Volume Control

3-1-7. Saving System Information

To make the change effectively after modifying each DVR system configurations, user need to press the "Save System Setting" ( ) icon to complete the changes.

3-2. DVR Main Program

3-2-1. Program Overview

- **Function Description:**

Setup Video Parameters – EzSetup: Provide user to set up the video parameter of the DVR. Please refer to chapter 3-2-2 for detail introduction**.**

Surveillance Server – DigiCap II Series: Powerful integrated surveillance functions and configuration. Please refer to chapter 3-2-3 for detail setup and operation introduction.

Playback Video Clips – EzLANPlayback: Provide remote client to playback video clips, please refere to chapter 3-2-4 for detal setup and operation introduction.

Text inserter Playback-EzTextPlayback: 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. Please refer to **PTI-100 or FAC-500 Operation Manual** .

Backup Video Clips – EzBackup: Allows you to back up the video clips to another storage device. Please refer to chapter 3-2-6 for detail setting**.**

IE Browse Server – EzWebServer: Allows you to view the video of DigiCapII DVR via IE browser. Please refer to chapter 3-2-7 for detail setting**.**

Remote Server – EzRServer: Allows remote client to control the DigiCapII DVR via EzRClient program. Allow the user to set up the parameters of DigiCapII DVR from remote site such as operating at the local. Please refer to chapter 3-2-8 for detail introduction**.**

System Reboot Schedule – EZReboot: Allows you to set your DVR's reboot schedule to lower system unstability. Please refer to chapter 3-2-9 for detail introduction**.**

Adjust System Clock – EzcClock: This function is to synchronize the DVR system time clock with a Standard Time Server. Please refer to chapter 3-2-10 for detail introduction**.**

Two way Communication – EzSTalk: Real-time audio from designated locations are simultaneously transmitted to both the control center and designated DVR sites. Please refer to chapter 3-2-11 for detail introduction**.**

Fingerprint Access Controller – EzFingerKey: To integrate with the DigiCapII Series DVR, provide supervisor entry access control and management easily. Please refer to **FAC-500**

FingerKey user manual for detail.

Keyboard: Press to display a mini-keyboard for words input.

Control Panel Button: Press to enter control panel interface for system configuration.

Restart/Power Off Button: Press to select restart or power off the DigiCapII system.

3-2-2. Setup Video Parameters – EzSetup

To change the default Video Parameter setting, please simply click the icon from the main screen and follow the instructions below:

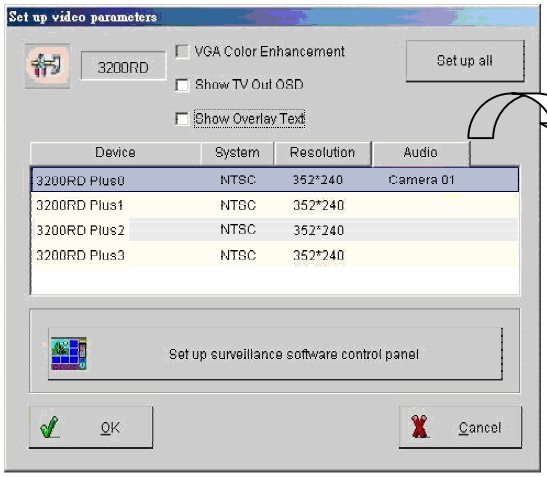


Fig 3-2-2.1

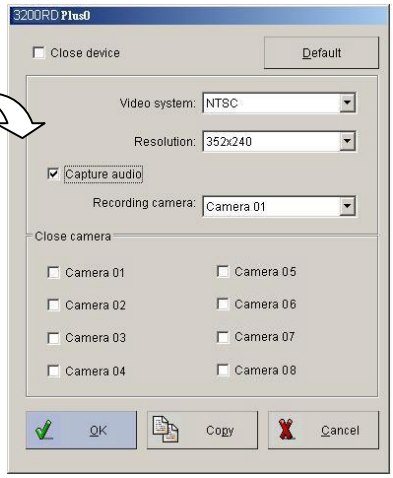


Fig 3-2-2.2

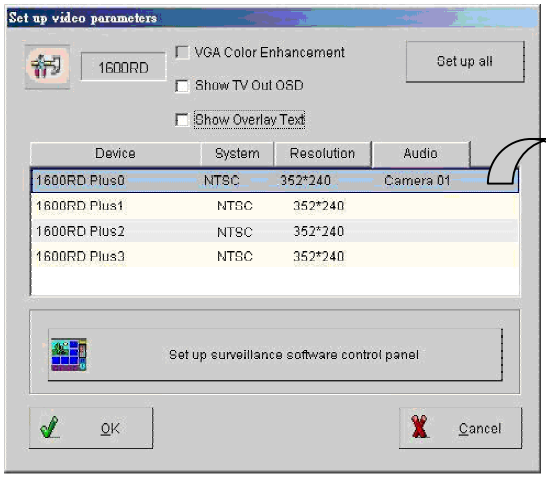


Fig 3-2-2.3

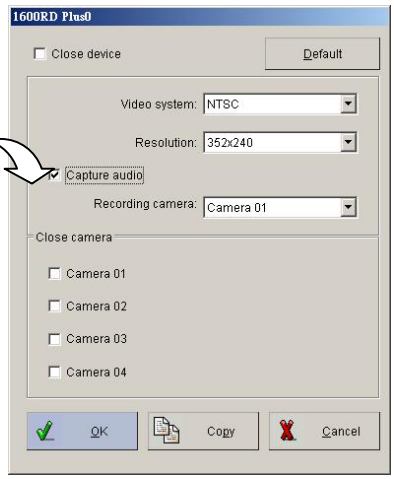


Fig 3-2-2.4

- **Digi-3200Pro / Digi-1600Pro System Setup**

Use mouse to double-click on the device to modify its cameras, window will show as **Fig 3-2-2.1**and **Fig 3-2-2.2**, represents for Digi-3200Pro; **Fig 3-2-2.3** and **Fig 3-2-2.4** represents for Digi-1600Pro.

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

Enable 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 four audio channels on each system. (For **Digi –3200Pro-A / Digi-1600Pro-A only**).

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.

- **Set up system parameters for all cameras**

  Use mouse to double-click on the "**Set up all**" button, this setting takes effect on all cameras.

- **Set up panel** Enables user to change the position of control panel

  Use mouse to double click on the "**Set up surveillance software control panel** "icon as shown on Fig **3-2-2.1**. Select position of **Main Panel**/ **Playback Panel** that you want to change.

- **Capture audio** Enables cameras with microphones to record sound and audio monitor function.

  Setting up Audio Recording (For **Digi-3200Pro and Digi-1600Pro** only**)**

  Use mouse to double click on the "**Set up audio recording**" icon as shown on Fig **3-2-2.1**. Follow the instructions below to set up audio recording for single camera.

  1. Select your sound card from the **"Audio device"** of drop down menu as the window above.
  2. Select the port you plugged the audio into at the drop down menu **"Audio source"**.
  3. Connect the audio cable to your sound card's Microphone in or Line in of the PC.
  4. Select the camera you want to record the audio from drop down menu **"Recording Channel"**.
  5. Click **"OK"** to complete the setting.

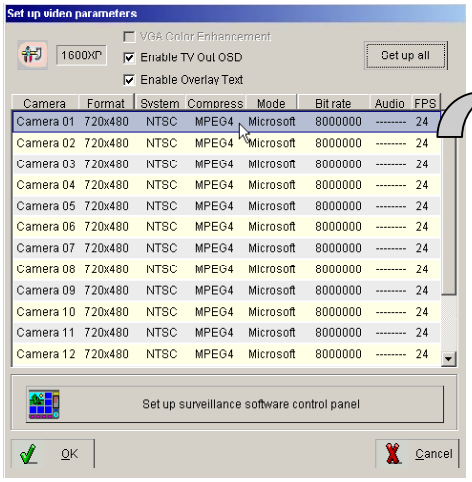


Fig 3-2-2.5

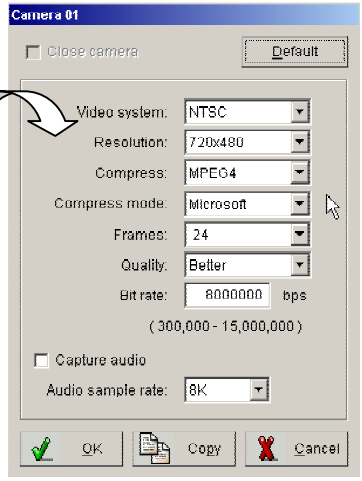


Fig 3-2-2.6

- **Digi-1600XP / Digi-800XP System Setup**

  Use mouse to double-click on the device to modify its cameras, window will show as **Fig 3-2-2.5** and **Fig 3-2-2.6**, represents for Digi-1600XP/ Digi-800XP respectively. Many of the functions in XP DVR series behave similarly or even identically to those of Pro DVR series. You can refer to the above description.

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

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

Resolution You can select the resolution for preview and recording. There are four options – 720 x 756, 720 x 480, 360 x 288, and 360 x 240.

Compress Default is MPEG 4.

Compress mode Default is Microsoft format. We will provide the other compress mode later.

Video quality will change the video recording quality. There are five modes for the customer 's selection. The customer also cans entry the Bit rate directly.

Capture audio will enable cameras with microphones to record sound. There are two audio sample rate - 8K and 48K Bps format for selection. The 8K will reduce the file size and normal video quality; the 48K have better audio quality and big file size.

Bit Rate This is MPEG4 compression size. It can be between 300 K to 15 M Bits/Sec.

FPS You can set up the recoding frame rate for each individual camera from EZSetup program, to reduce the recording file size, user can simply reduce the setting compression bit rate and the recording frame rate. If stays in same compression bit rate but modify the recording frame rate, the recoding file size will be still same. However, to keep in same good image quality but smaller file size, please follow the concept below to modify the compress bit rate and the recording frame rate:

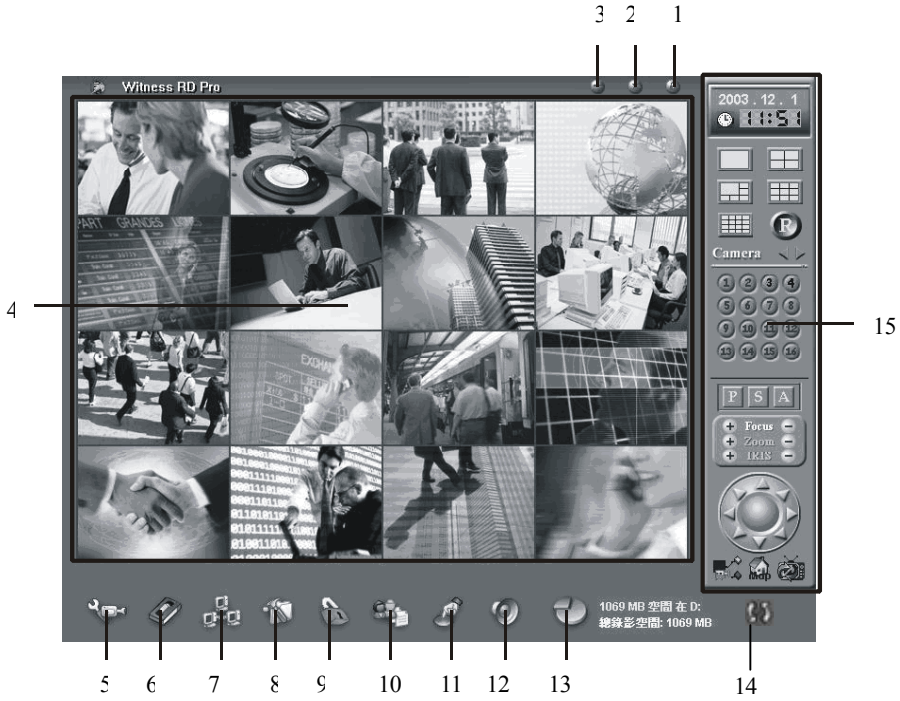
If the DVR original setting is: 30FPS (Recording frame rate) and 2Mb (Compression bit rate)

User can modify as: 30FPS → 10FPS (Recording frame rate)

2Mb → 2Mb / (30FPS/10FPS) x2 = 1.3Mb (Compression bit rate)

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

3-2-3. Surveillance Server-DigiCap II DVR Series



- **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/POS Playback:** To open the "Playback video clips" or "EzPOS 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.

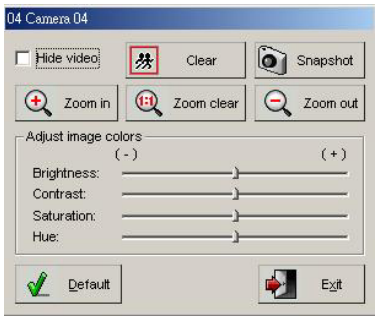
14. **Toggle switch:** To provide user to select Real-time Display and Recording mode.

15. **Video control panel:** Provide DVR display control, recording, PTZ camera controlling, TV out and eMap functions. However, according to the DVR models, the items and it's alignment of the control panel will be different.

16. **"ESC" Hide tool bar:** Pressing "**ESC**" key on keyboard will hide the tool bar of main screen until **"ESC"** is pressed again.

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.

3-2-3-1.Start to Login the Surveillance Server

User needs to login the name and password when the fist time starting the Surveillance Sever program. To logout the program, simply press the same button. The default login name and password are: **Login Name: root** **Password: 123**

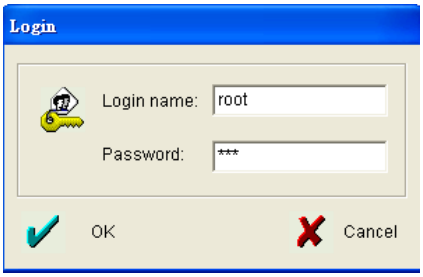


Fig 3-2-3-1.1 Login

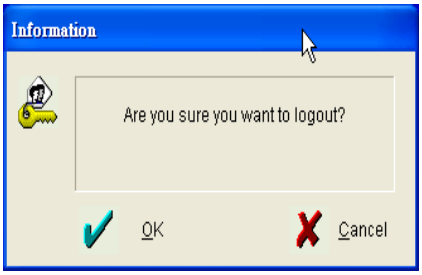


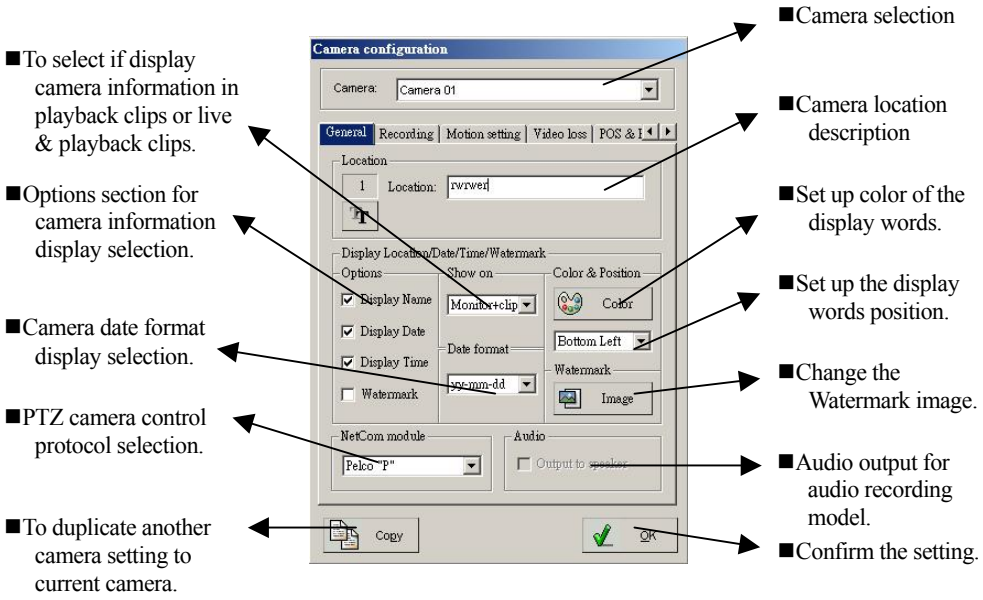
Fig 3-2-3-1.2 Logout

3-2-3-2. 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.

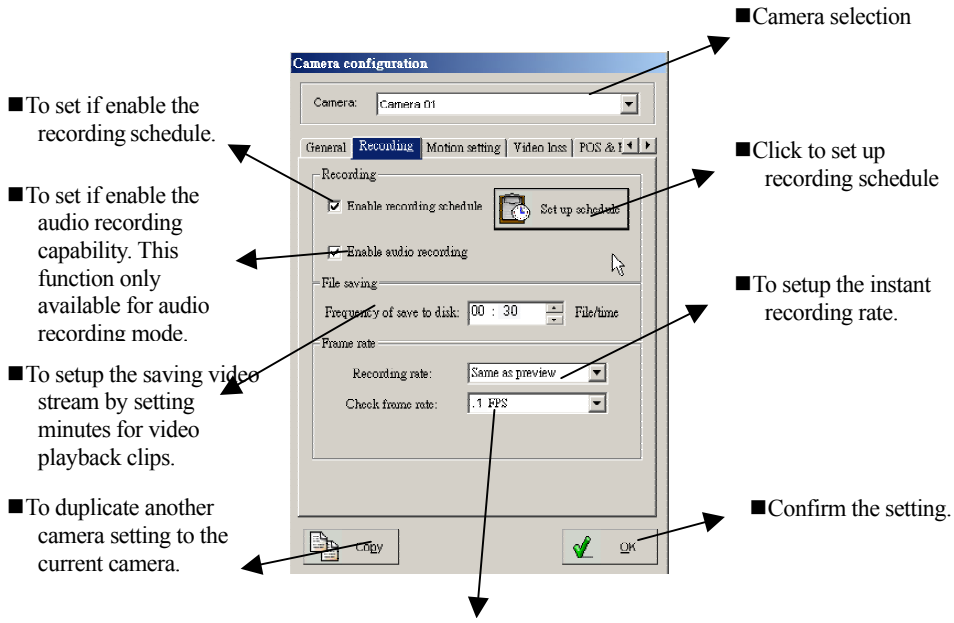
a.) General

This section 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 right side top of the "Camera configuration" setup interface.



b.) Recording

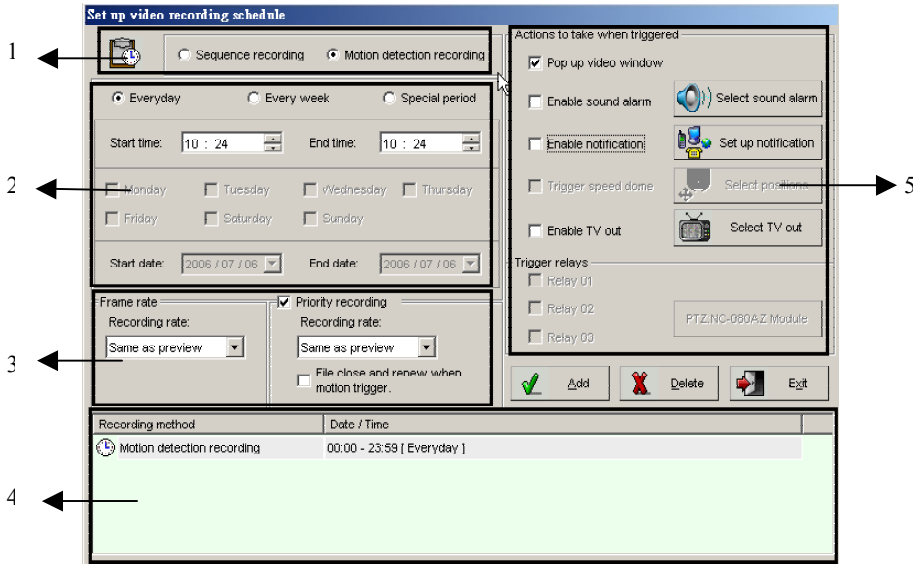
This section is to set DVR video and audio recording functions. To enter this setting interface, simply click the "Recording" tab on the top side of the "Camera configuration".



■To verify if the system recording frame rate is less than the "Check frame rate" setting, or the system will restart the Surveillance Server program

- **Set up the recording schedule ( ):**

  This function is to se up the DVR recording schedules and notification. Please click the "Set up schedule" icon on the "Recording" setting interface to enter the "Set up schedule" interface.



■ **Sections Descriptions:**

Section 1:

- **Sequence recording:** To set system in normally sequence recording mode.
- **Motion detection recording:** To set system in motion detection recording mode. To available the "Priority 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 detention 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.

- **Priority 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 trigged, the system will close the priority 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.

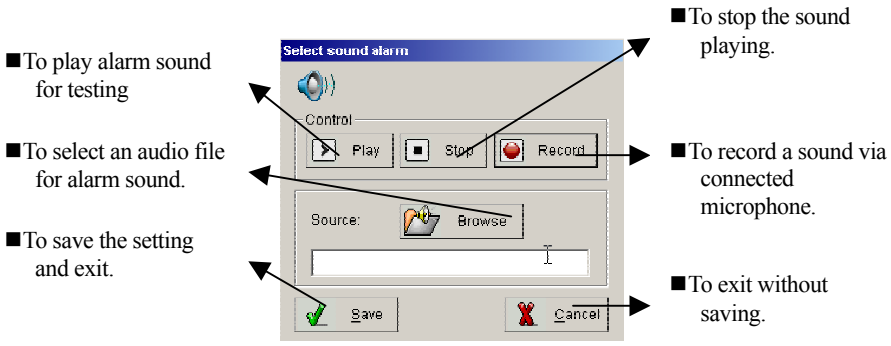
Section 4:

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

Section 5:

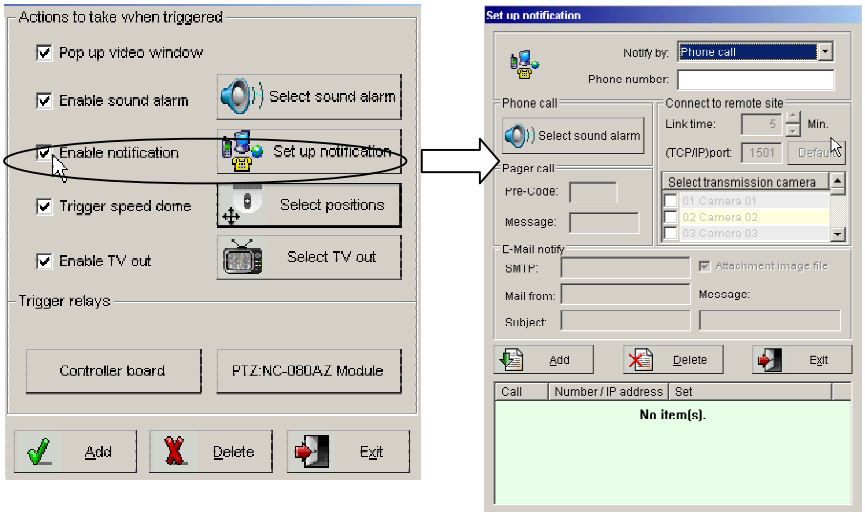
Action to take when triggered: This section is to set up DVR action when the setting motion has been triggered. Please refer to the introduction below for setting detail.

- **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.



➢ **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.

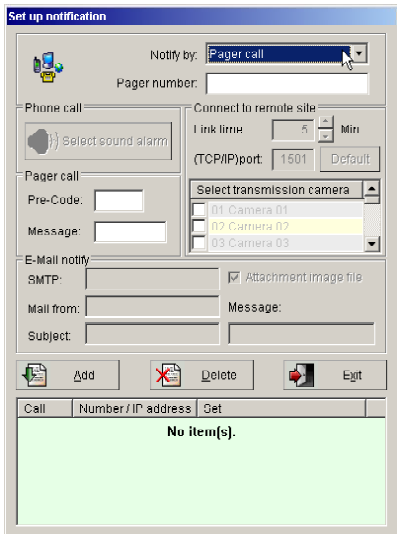
Step 5: Repeat **step 2** to **4** to add another **Phone call** notification.

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

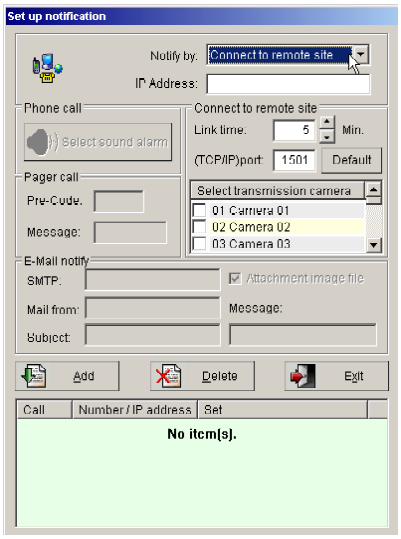
Step 4: Type in the message.

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.

The TCP/IP port numbers need to be same as the system configuration's TCP/IP

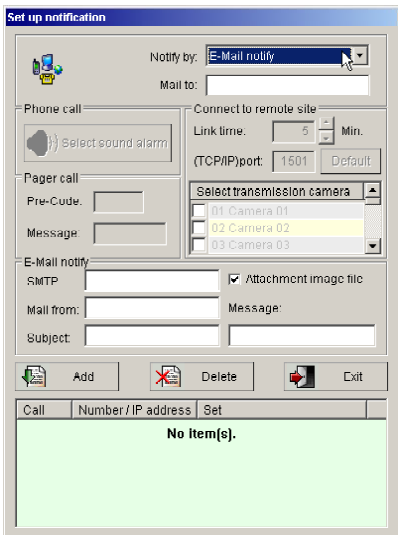
port number of the remote PC's FreeView Pro program, or the connection will be fail. Please open the port number for DVR from Router when you want to have the Internet access. The detail setting of Router, please ask your local device provider.

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.

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 DigiCapII DVR to send the e-mail message.

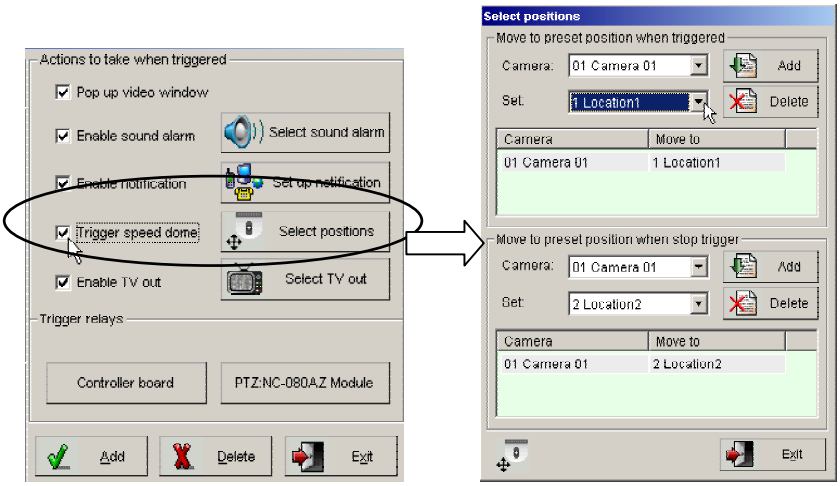
Step 4: Type the sending e-mail address in **"Mail from:"** section.

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

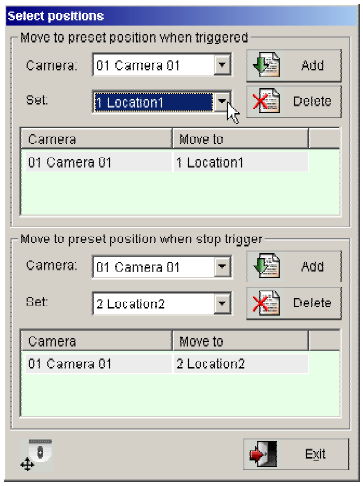
Step 6: Click the **"Add" button** and the setting information will be saved and list in the below dialog box.

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:



1.Select a specific speed dome camera from the top "camera" selection box in the "Move to preset position when triggered" section.

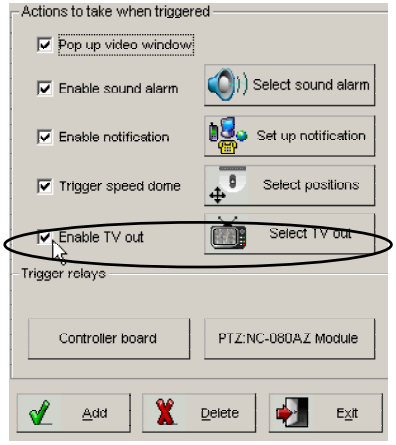
2.Select a preset position in the "Set" section for the connected speed dome moving to the selected position when the motion detection is triggered; please refer to the **Chapter 3-2-10 Control Panel** for setting the PTZ camera preset position.

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

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 DigiCap II DVR, user can enable this function to output a video signal to TV when the motion detection is triggered.



The CP-1600RD and Digi-3200Pro DVR board provide the multi TV Out ports and remote controller that the user can use this function for call monitor site. The detail description as below:

Digi-3200Pro

Digi-3200Pro DVR board provides 2 VGA out and 5 TV out ports, the function of video out description as below:

1.Split TV out#1: Display 1-16 camera split video out on TV. The customer can rotate split video out (1, 4, 6, 8, 9, 10, 13, 16, 4x4, 9x9 split video) on TV and also can setup the "Pop Up " function when the camera is triggered automatically via the software. The customer also can assign to display the video out (1, 4, 6, 8, 9, 10, 13, 16, 4x4, 9x9 split video) on TV via Remote controller.

2.Split TV out#2: Display 17-32 camera split video out on TV. The customer can rotate split video out (1, 4, 6, 8, 9, 10, 13, 16, 4x4, 9x9 split video) on TV and also can setup the "Pop Up " function when the camera is triggered automatically via the software. The customer also can assign to display the video out (1, 4, 6, 8, 9, 10, 13, 16, 4x4, 9x9 split

video) on TV via Remote controller.

3.Pop up TV out#1: Pop up 1-16 camera signal video on TV when camera is triggered automatically.

4.Pop up TV out#2: Pop up 17-32 camera signal video on TV when camera is triggered automatically.

5.Rotate video out: Display signal video (1-32 camera) out on TV. The customer can rotate the 1-32 camera on the TV and also can setup the "Pop Up " function when the camera is triggered automatically via the software. The customer also can assign to display the video out on TV via Remote controller.

6.VGA port #1: Display live video, setup the parameters and playback video on this VGA moitor.

7.VGA port #2: Display eMap and playback video on this VGA moitor.

Remote Controller: You can use a Remote controller to control the Rotate TV out and Split TV out. The sensor cable can be extent to 200 meters to suitable for the actually application. The detail information as below:

1.) Please shut down the power of PC when you plug in the sensor cable into the DVR board, otherwise it will cause the sensor damage.

2.) Make sure that the sensor itself is not covered and is facing the place from where you will be using the remote controller.

3.) Make sure that the sensor itself plug into the phone jack completely.

4.) The system allows to extent sensor cable for control the TV out from far away site via Remote Controller. Please follow the process as below to achieve this function:

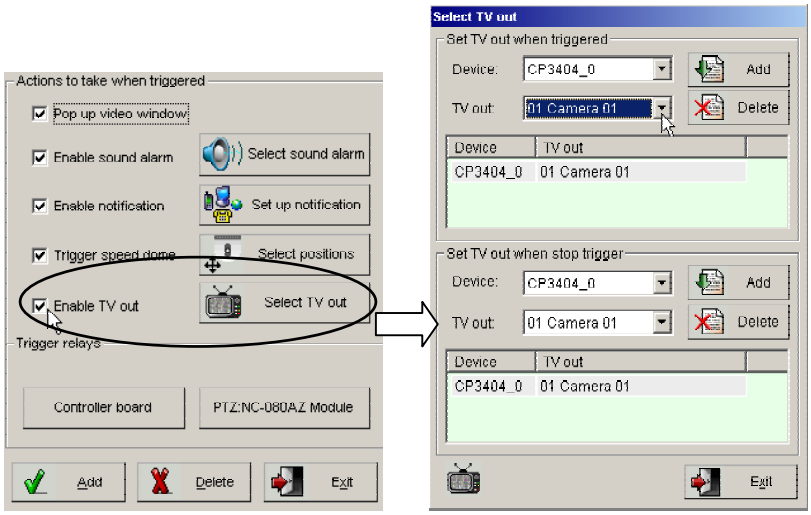
a. Please use the shading cable such as 28#2C+S type.

b. The sensor cable includes 3 cables: **Red (DC 5V), Shading cable (Ground), White (Signal).** If the extension sensor cable over 40 meters that needs DC 5V extra power for the sensor operation.

Digi-1600Pro

Digi-1600Pro DVR board provides 2 VGA out and 3 TV out ports. The most functions same as CP-3200RD, so please refer to the above description.

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



Step1: Select the DigiCapII DVR card in the "Device" section.

Step2: Select the camera in the "TV out" section.

Step3: Press the "Add" button to save the setting.

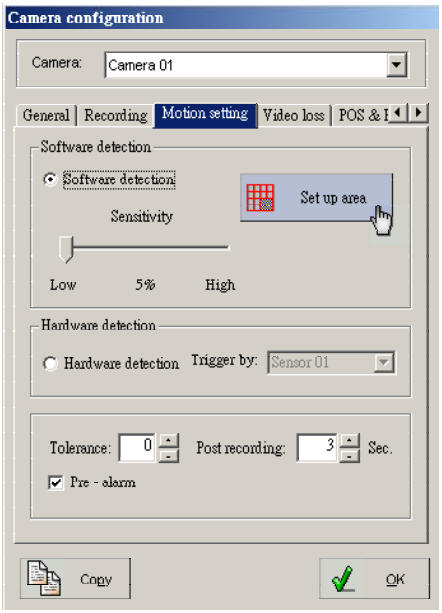
Step4: To set another "TV out" setting, please repeat from step1 to step3.

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.

c.) Motion Setting

This setting is to trigger the DigiCap II 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". DigiCap II DVR provides user "Software detection" and "Hardware detection" for security protection, to enable the "Hardware diction" function, the DigiCap II 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.

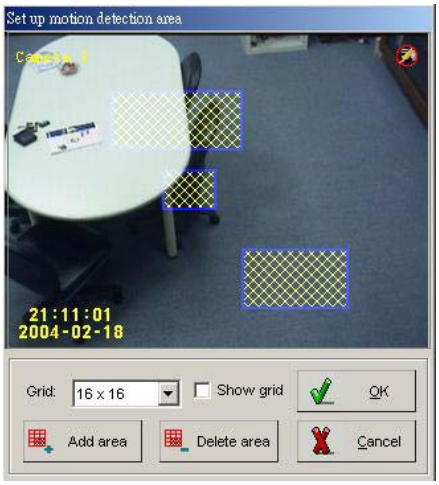
1.) Software detection

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

1.) 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.

2.) 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**

You can also select hardware detection. After enabling "**Hardware detection**", select the pecific sensor to use from available port. You need to connect the sensor device to the port of **" Sensor in** " of " **NC-1603 "**. When the sensor is triggered, it will start to record and trigger **t**he port of relay output.

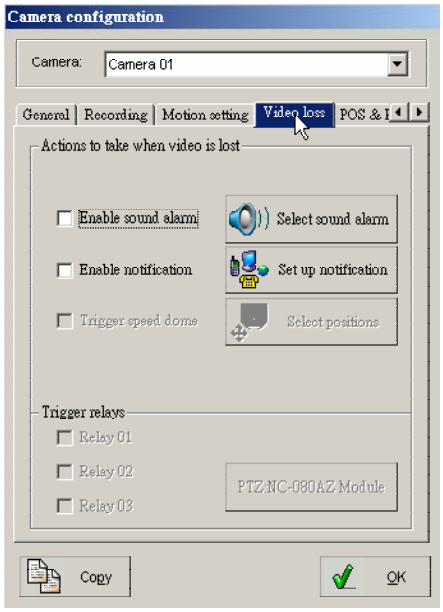
- **Tolerance** – This function is to prevent false alarms by defining acceptable movement. If the tolerance is set 2, video screen must change continuously 3 times before the DVR recording.
- **Post recording** – This function sets the time to continue recording after motion is no longer detected; the 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"**, could record videos of last 1-30 seconds before event trigger base on the system RAM buffer.

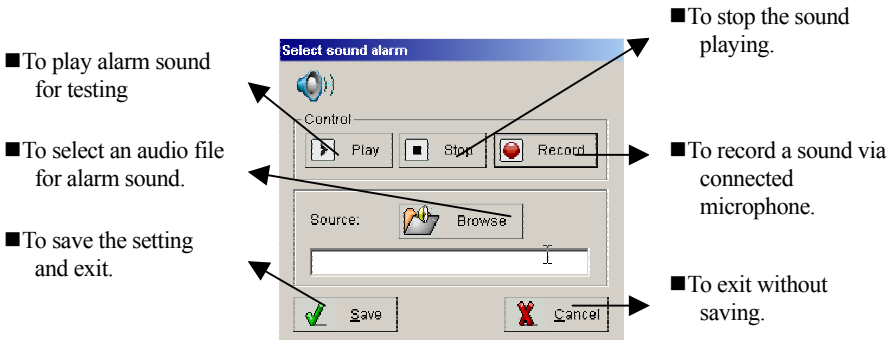
d.) Video Loss

This function is to trigger the DigiCapII DVR to send a notification when video losses occur.

Please click on the **"Video Loss"** tab and follow the instructions below for the setting.



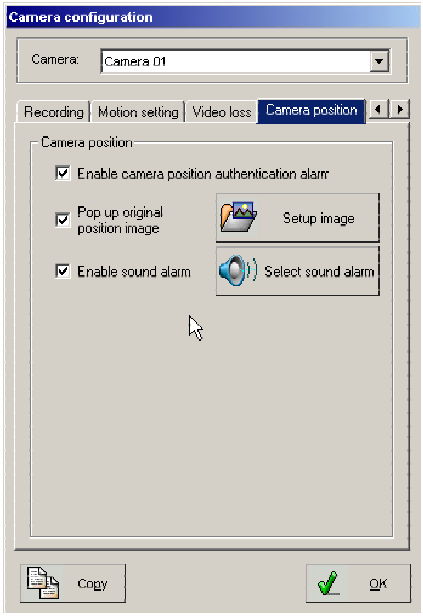
■ **Enable sound alarm** –To set an audio warning when the video loss occur.



- **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 occur. 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.

e.) Camera position

This function only supports the model of Digi-1600XP, Digi-1600Pro and Digi-3200pro. The main purpose of the "Camera position" function is to detect the camera position, and while the position of camera is moved, the alarm will be trigged and the system will pop up pre-setting image for the customer comparison.



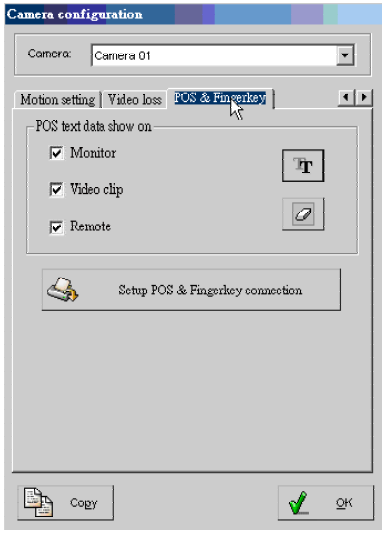
Function Description:

- **Camera position Authentication alarm –** Enable this function, the alarm will be triggered if the camera is moved.

- **Pop-up original position image** – Enabling this function will pop up pre-setting image for the customer comparison when camera position is moved. Click "Setup **image** "icon to save the original image for comparison when camera position is moved.
- **Enable sound alarm** – Click to set up alarm sound file for an audio warning.

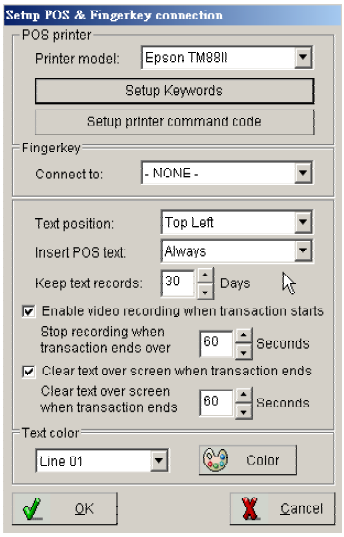
f.) POS & FingerKey

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.



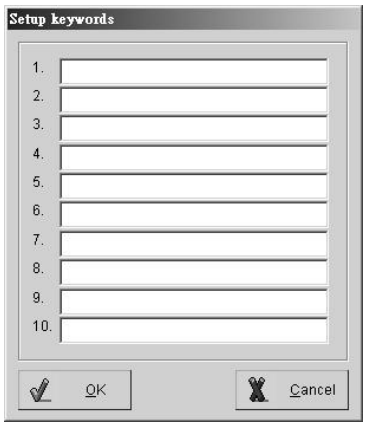
- **Font:** Click icon to specify the font size of text to past on the video clips.
- **Delete:** Click icon to delete the text on the.
- **POS text data show on:** Enable/disable **Monitor**, **Video clips** and **Remote** to display the POS text on the connected monitor, video clips or remote PC.

- **Setup POS & Fingerkey connection**



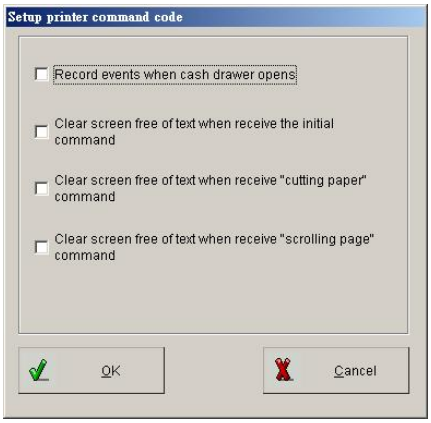
Function Description:

- **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.

3-2-3-3. EzSyncPlayback

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

This function is only support the Digi-1600 Pro and Digi-3200 Pro models

- **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:** Clip 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.

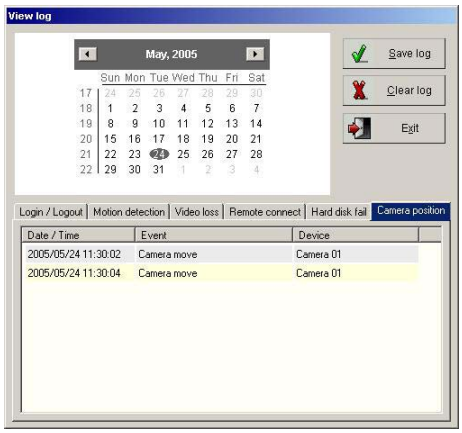
Increase frame rate – Increases the frame rate.

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 3-2-3-3.1)**.

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 3-2-3-3.2,** the system will display all detected object change events on the rights list window, and use can select an event to playback.

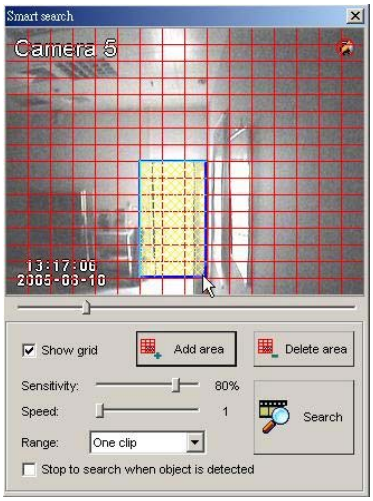


Fig 3-2-3-3.1 **Fig 3-2-3-3.2**

- **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 Fig 3-2-3-3.4), 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:** Select the video stream from the calendar by the order of year, month and date.

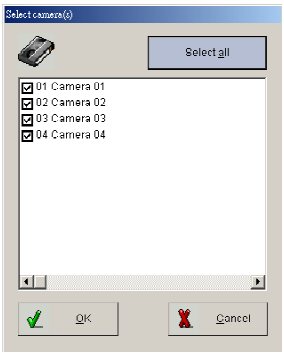


Fig 3-2-3-3.4

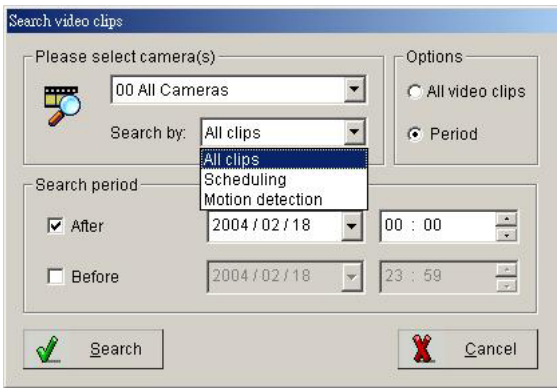
4. **Select display camera:** Click the "Up" and "Down" button to display the desired cameras' video stream.
5. **Click a desired gray color video stream block to play:** Click a desired gray color video stream block, and click the play icon to view.

3-2-3-4. 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"**.

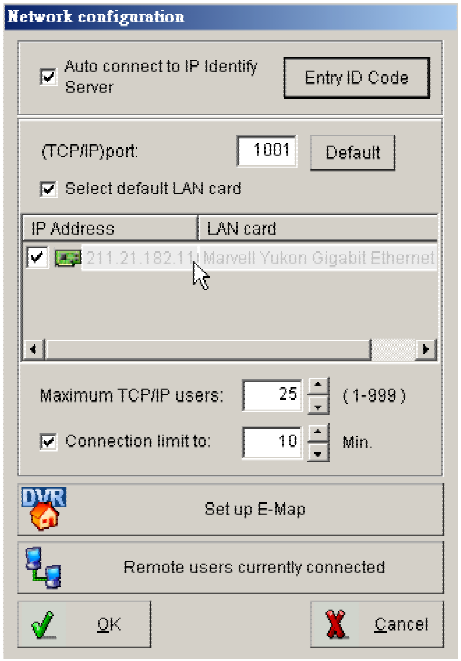
- **Play back Archived Videos**

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.

3-2-3-5. Network Configuration

The main function of "**ID code**" is to solve possible problems with dynamic IP addresses connection. DigiCapII series DVR contains a built-in IP address register function. If you enter the ID code into DigiCapII series DVR and enable the **"ID Identify Server"** icon, then when you start DigiCapII series DVR, its built-in IP Identify capability allows others to connect directly to your DigiCapII DVR 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 DigiCapII 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 DigiCapII DVR 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** ".

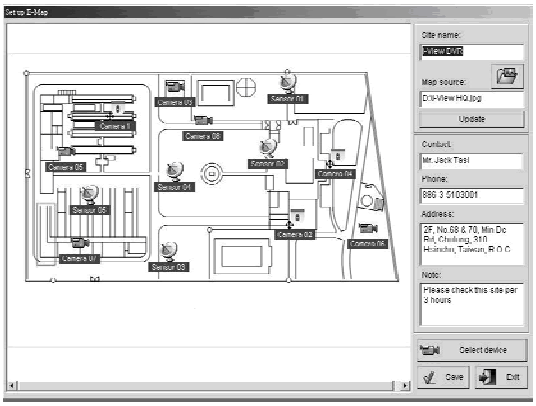
  3. Click " **Map source** " icon to browse the map file from DVR folder and then click "**Update**" icon after you find out the Map file. (The map file can be a BMP or JPG file.)

  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.



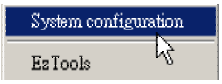
- **Remote user currently connected**

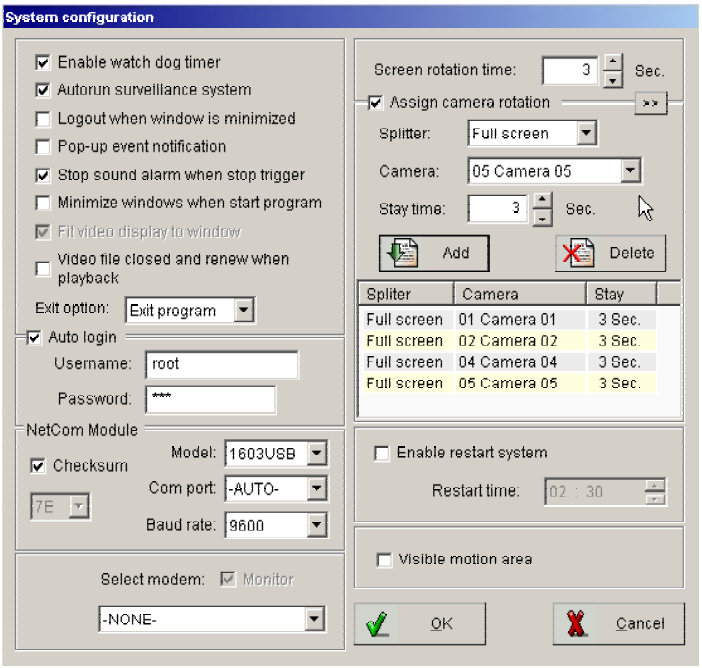
User can simply click this button to view the remote currently connected users' information.

3-2-3-6. 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.





- **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 **DigiCap PRO/XP** DVR when system starts up.

Logout when window is minimized Enable this function will logout **DigiCap PRO/XP DVR** 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 DigiCap PRO/XP 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 **DigiCap PRO/XP** 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 DigiCap PRO/XP program.

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

system when you reboot.

Section of the NetCome Module:

Model Select " **1603USB** " type for control the PTZ camera, D/I and D/O device.

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 DigiCap II DVR. (Default setting is 9600 bps)

If you want to change the baud rate, please change the hardware and software at the same time.

There is a Dipswitch on the back panel for the Baud rate setting, the description as below:

Baud rate / Pin	9600	4800	2400	1200
Pin 1 & Pin 2	Open	Short	Open	Short
Pin 3 & Pin 4	Open	Open	Short	Short

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 DigiCap II , 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)

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.

1. 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 "**.

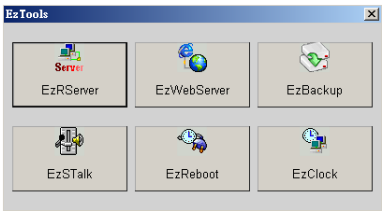
3. Enter number into **"Stay time"** tag.
4. Click **"Add"** icon to save the rotation image.
5. Repeat **1** to **4** for adding other rotation videos.
6. Click **"OK"** to complete the setting.

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

Visible motion area to view the setting motion detection area. This function is only for the model of Digi-1600XP, Digi-1600Pro and Digi-3200Pro. 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



3-2-3-7. 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, DigiCapII DVR 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)

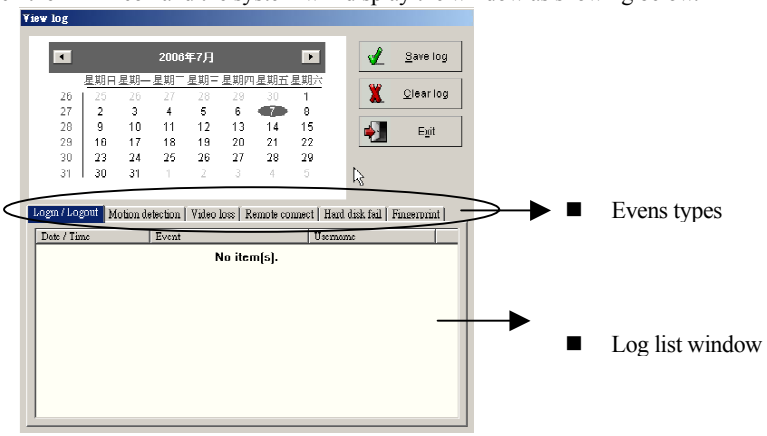
- **Remove/modify user privileges.**

  1. Select the user in the username list.

  2. Click **"Delete"** to remove user or double-click on the username to modify user privileges

3-2-3-8. View Log

The DigiCapII DVR 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.

Evens 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.

3-2-3-9. 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.3-2-3-8.1**)

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.

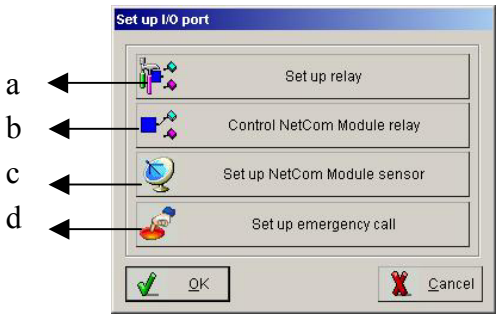


Fig. 3-2-3-8.1 Set up I/O port

a.) Setup relay (Optional)

While user insert the optional card into the DigiCapII DVR, the "Set up relay" button will be able to click to enter the "Setup relay" interface as showing below.

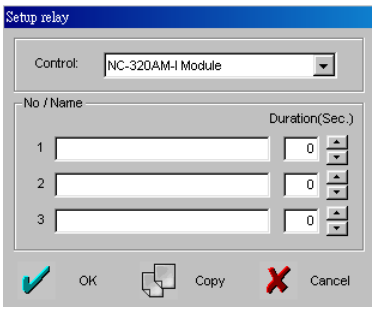


Fig. 3-2-3-8.2 Setup relay

Function Description:

- **Control:** You need to specify the device for setting.
- **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 (Optional)

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

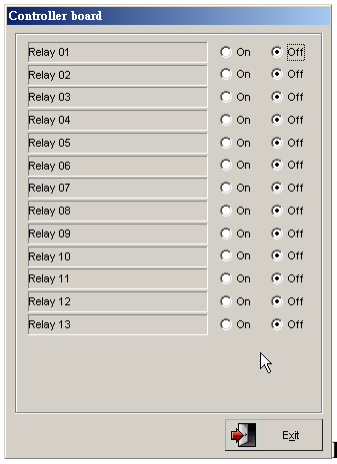


Fig. 3-2-3-8.3

Setup NetCom Module sensor (Optional)

Click **"Setup NetCom Module sensor"** button on setup I/O port, the window will display as **Fig.3-2-3-8.4.** 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.

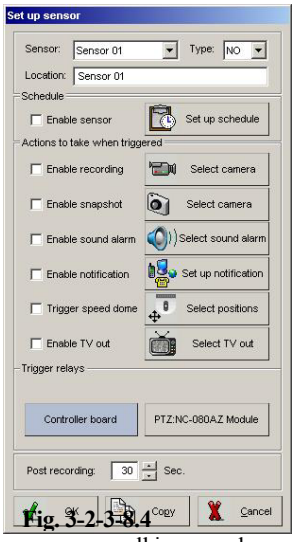


Fig. 3-2-3-8.4

- **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. For detail please refer to page 44**.**
- **Enable notification**: See details on how to set up Notification on page 45**.**
- **Trigger speed dome**: See details on how to set up position on page 48**.**
- **Enable TV out:** Please refer to page 51 for detail "Enable TV out" setting**.**

Step 4. Select the specific trigger relays to use from Relay 01 to 03(**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.

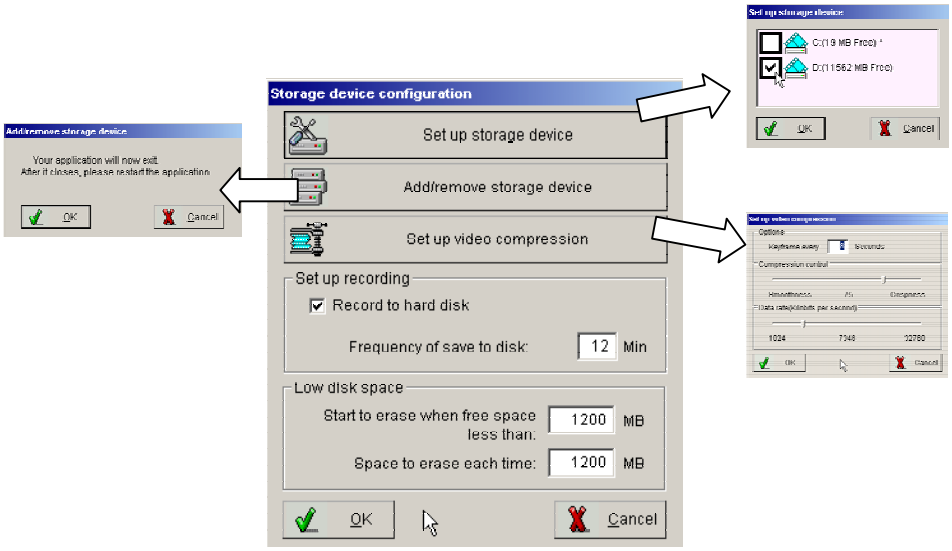
Step6. Click "**OK"** to complete.

c.)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.

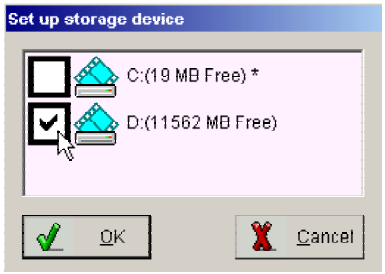
3-2-3-10. Storage Device Configuration

This function is to set up system configured storage device and video saving compression rate.



●Storage device configuration interface description:

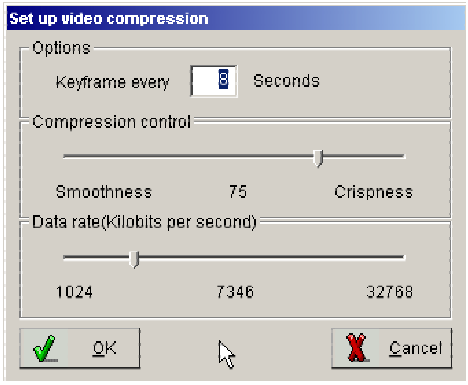
Set up storage device: This button is to enable the system configured video storage (Drive **"C:"** is the flashing member card for saving the DVR operating system). To enable the configured device, simply check the device and click the "OK" button to complete.



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: 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.

Space to erase each time: This section is to set up the DVR system erasing the image storage space size each time.

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.

3-2-3-11. 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**

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.).

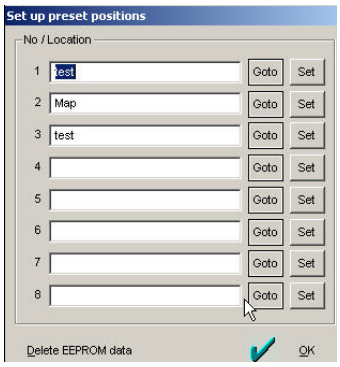
Step 2: Use the icon and click on or to adjust the parameters.

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

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

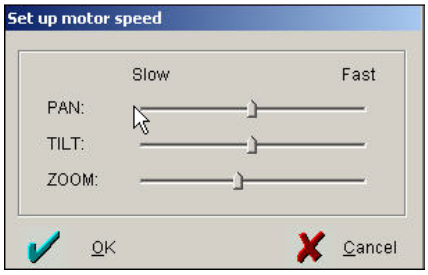
Step 5: Press the "P" button to enter the "Preset Position" setting interface.

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.

3-2-4. Playback Video Clips – EzLanPlayback

This chapter will show you how to use EzLANPlayback program to play back video files across the network (LAN). It provides a fast playing back the video clips of DigiCapII DVR in any PC through LAN. Before you start, make sure the DVR's file folder (ClipPro folder, for example) is shared to network users, done through proper setups in Windows Sharing and Security; please refer to **Chapter 3-1-5** for sharing folder configuration detail. After the folder and files are shared available, follow these steps to playback video clips of DigiCapII DVR via LAN user.

This function is only support the Digi-800XP and Digi-1600XP

Step 1: By clicking on the button from main screen to play the LANPlayback program. You will see the picture as below.

Step 2: Click icon and below picture will be shown. Click the or to select the folder and then click "**Add** "button to setup the path of playback. Repeat and add one

more path. Click icon and you can setup the DigiCapII DVR's HDD become a part of HDD of remote client PC automatically when you turn on the DVR. It does not need to setup the link path again when you would like to have the LAN playback function.

Step 3: Click on "**Re-search video clips** "button to complete the setting.

Step 4: After above setting, you can playback the video clips of DigiCapII DVR via LAN. The detail process of playback video clips, please refer Chapter 7-10

Enable " Use default " icon that you can playback video file without open DigiCapII program, but you cannot playback video clips on remote PC via LAN.

3-2-5. Text insert Playback – EzTextPlayback

To enable this function, user need to install the POS system with DigiCapII DVR, please refer to the PTI-100 user manual for detail POS system hardware installation, system configuration and functions usage.

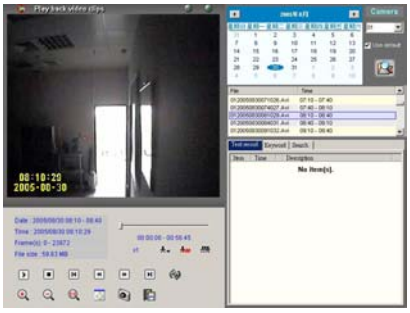


Fig. 3-2-5.1 POS Playback

3-2-6. Backup Video Clips – EzBackup

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

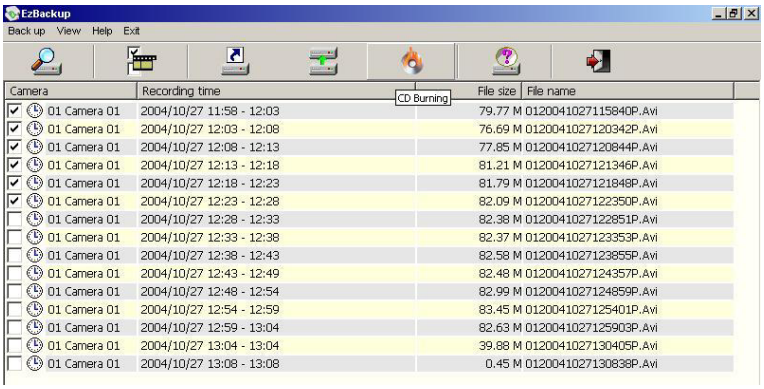
●**Follow the steps below to back up videos**

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.



5.Select video file, which you would like to have by manual. Or you also can click to select /remove selection all video file.

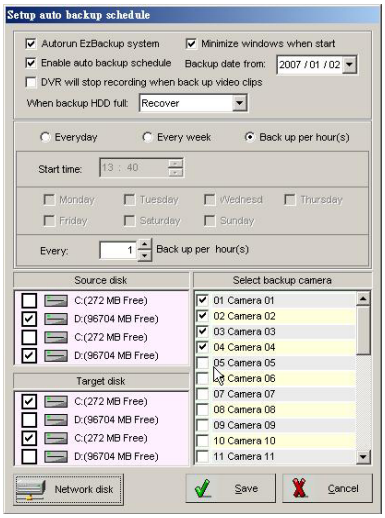
6.The EZBackup program provides three methods to backup the video clips and the detail process as below:

Backup to another HDD by manual:

a. Click will see the Fig4-2.1diagram window.
b. Select the HDD from " **HDD Drive** " section.
c. Click " **Start to back up** " icon to start backup.

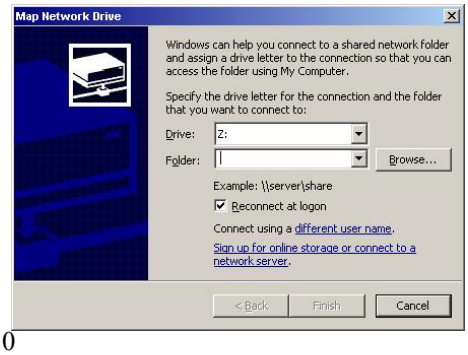
(Fig4-2.1)

Auto Backup video clips via Schedule:



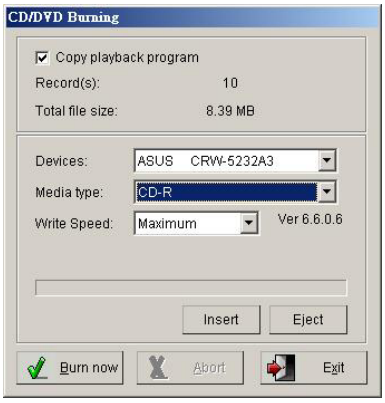
a. Click will see the Fig4-2.2 diagram window.
b. Enable " **Enable auto backup seclude** " function.
c. Select the " **Date** " to backup video clips from " **Backup date from** " section.
d. Choice " **Recover** " or " **Stop** " from " When backup HDD is full " section.
e. Select the backup schedule 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 "

" 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 EZSyncplayback 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.

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

About - Press to see the program version.

Exit –Exit the video backup setting window.

3-2-7. 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.

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

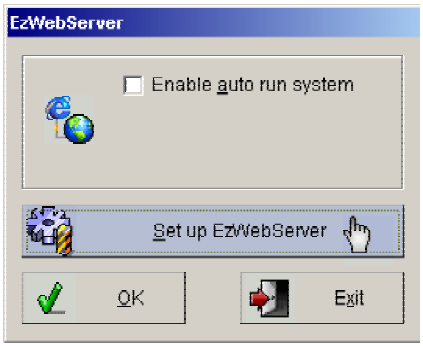


Fig. 3-2-7.1 EzWebSever

Step 1: Please click the "Web Browser Sever – EzWebSever" button to enable this function.

Step 2: Click **"Enable auto run system"** and **"Hide window"** to automatically enable the EzWebSever when start the DigiCapII DVR system every times.

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

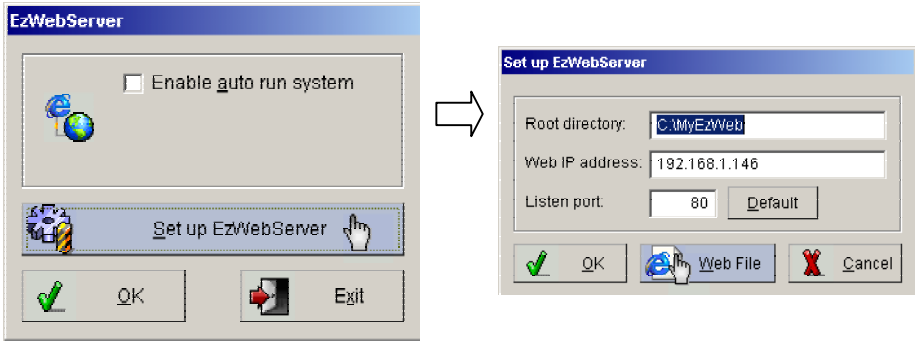


Fig. 3-2-7.2 Click the "Set up EzWebSever" to display "Set up EzWebSever"

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.

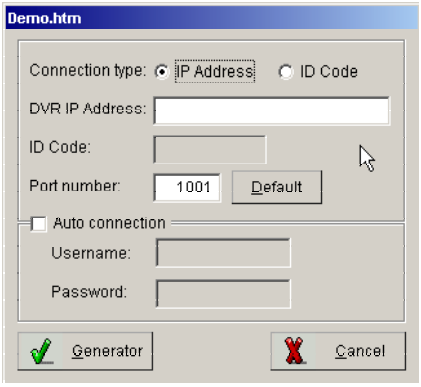


Fig. 3-2-7.3 "Demo.htm" setting interface

●**"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.
- **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.

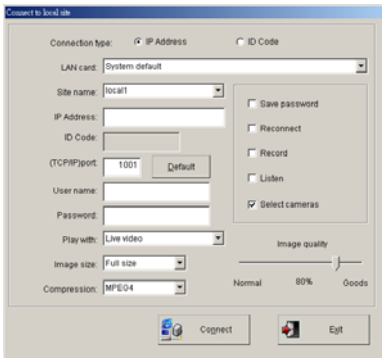
- **Auto connection:** Enable this function and type in the "Username" and "password to allow remote PC to set up remote connecting this DVR automatically.

● **Remote client PC setup:**

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

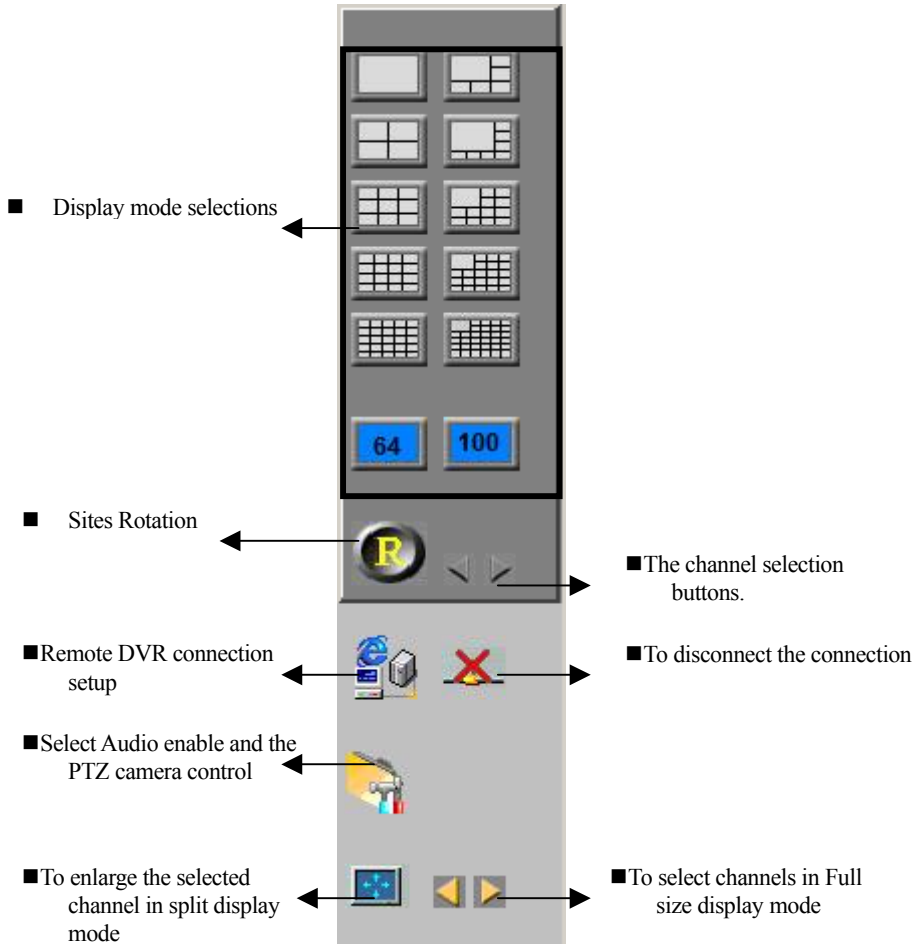
Step 2: Please allow the ActiveX program to install on your PC when the ActiveX pop-up, and the screen in IE browser will display as below.

Step 3: 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.



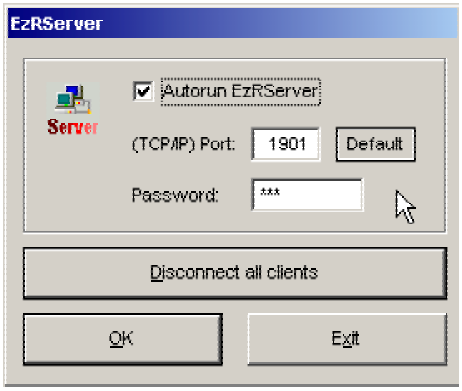
Step 4: Simply give a name in "Site name" and type in the DVR IP address or ID code, (TCP/IP) port number, Login "User name" and "Password', then press the "Connect" button to start the connection.

- **Browser Viewing Tools Function Description:**



3-2-8. Remote Control Server – EzRSever

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 DigiCapII DVR main program interface, and the system will display the "EzRSever" setting interface as showing below.



■**EzRSever Setting Description:**

■**Autorun EzRSever:** Check to enable the DigiCapII DVR 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.

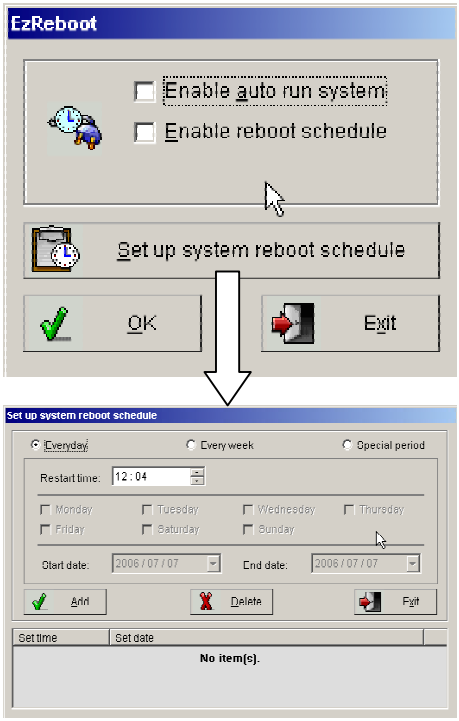
■**Disconnect all clients button:** To disconnect all remote connection.

■**OK button:** To enable the EzRSever function and complete the setting.

■**Exit button:** To disable the EzRSever function and exit without the setting.

3-2-9. System Reboot Schedule – EzReboot

This function is to schedule the system for auto reboot. Please click the icon from the DVR main program screen to display the EzReboot setting interface as showing below, and follow the instruction below to set up the reboot schedule function.



- **EzReboot setting procedure:**

Step 1: Check the **"Enable auto run system"** for auto start the EzReboot function when the DVR system starts.

Step 2: Check the **"Enable reboot schedule"** for enable the reboot schedule setting.

Step3: Click the **"Set up system reboot schedule"** button to set up the reboot schedule.

Step 4: Select the reboot schedule type for **Everyday, Every week or Special period**, and designate the selected time below

Step 5: Click the **"Add"** button to save the setting and list in the window below.

Step 6: To add another DVR system reboot schedule, please repeat the step 4 to 5.

Step 7: Press the "Exit" button to complete.

3-2-10. Sync System Clock – EzClock

This function is to synchronize the DVR system time with a standard time sever. Simply click the icon from the DVR main program to display the EzClock setting interface as below Fig.3-2-10.1, and follow the instruction below to set this function.

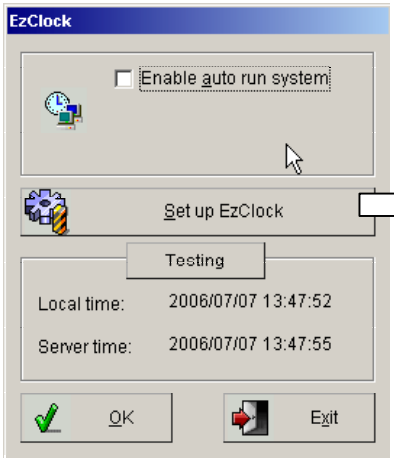


Fig. 3-2-10.1 EzClock

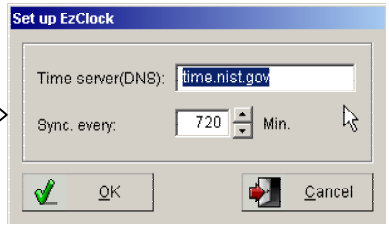


Fig. 3-2-10.2 Set up the Time sever (DNS)

- **EzClock setting procedure:**

Step 1: Check the **"Enable auto run system"** to automatically start the EzClock function when the DVR system starts.

Step 2: Click the **"Set up EzClock"** button to display the **"Time server (DNS)"** setting interface.

Step 3: Type in the reliable Time server DNS address.

Step 4: Type minutes for after how many minutes to synchronize the DVR system time.

Step 5: Please click the **"OK"** button to complete this setting.

Step 6: Press the **"Testing"** button to test if the **"Time server"** is working.

Step 7: Press the "OK" button again in the **"EzClock"** setting interface to complete or "Exit" button to disable the EzClock function.

3-2-11. 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.

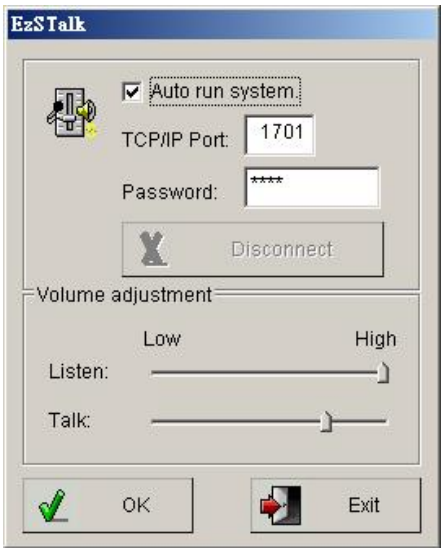


Fig 3-2-11.1

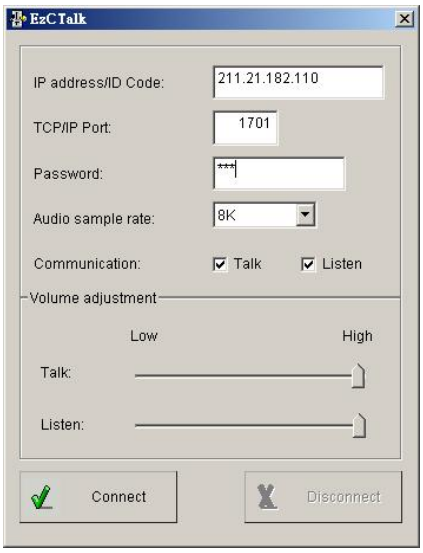


Fig 3-2-11.2

- **Follow the steps below to setup audio communication:**

On DVR site

Step 1. Click icon from the DVR main program, and the system will display as Fig 3-2-11.1.

Step 2. Enable " **Auto run system** " icon, the program will be enabled when you turn on the DVR.

Step 3. Enter your **"Password"**. The administrator of DVR must create a specified user account in DVR before you connect. Without the correct password, you cannot log in.

Step 4. Adjust the audio volume of Listen and talk to suit your request, if it is necessary.

On Remote PC site

Step 1: Once you have finished installing the FreeView Pro software, you may access them by clicking on the **"Start"** button, the **"Programs"** folder, then **"FreeView Pro"** and then clicking on

the **"Two way communication – EZCTalk"** icon, and the system will display as Fig 3-2-11.2.

Step 2: Enter the **"IP address"** or **"ID Code"** and **"Password"** which DVR site you wants communication.

Step 3: The number of "**TCP/IP Port**" must be matched between FreeView Pro and DigiCapII DVR.

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.

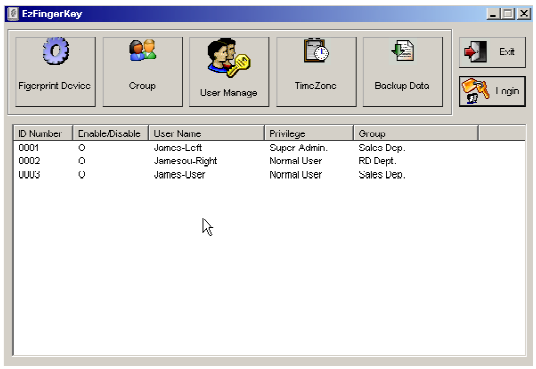
Step 5: Now, choose option from the **"Communication"** menu. **"Talk"** will allow you to have two way audio communications with DVR site, and **"Listen"** will allow you to hear the voice from DVR site.

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 complete the process. FreeView Pro will connect you to the DVR site for audio communication.

3-2-12. Fingerprint Access Controller – EzFingerKey

While user connected the fingerprint access controller, user can simply click the icon from the DVR main program. For detail about the fingerprint access controller installing, system configuration and the functions usage, please refer to the fingerprint access controller user manual.



Chapter 4 Remote Client PC Software

4-1.Remote Client Software System Requirement

- Desktop or Notebook PC with Pentium III 500 MHz CPU or better.
- Operating system: Windows 98 Second Edition, ME, 2000 or XP.
- 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 only for TCP/IP remote viewing.
2. AnyView Pro is only for modem-to-modem remote viewing.
3. PDAView is only for Pocket PC PDA or Windows Mobile 5.0 remote viewing.

4-2. Remote Client Software Installations

4-2-1. FreeView Pro Software Installation

This chapter walks you through the installation and setup process for Remote client software. The enclosed CD includes **"FreeView Pro"** (TCP/IP), "**AnyView Pro**" (Modem to modem), "**PDAView Pro**" (Pocket PC PDA or Mobile phone viewing).

Follow these steps to install **FreeView Pro Software.**

1. Click **"FreeView Pro Software",** as **Fig 4-2-1.1.**
2. Select language, which you would like to installation, as **Fig 4-2-1.2**

Fig 4-2-1.1

Fig 4-2-1.2

3. Click **"Next"** to continue installation, as **Fig 4-2-1.3.**
4. Click **"Browse"** to change the destination or **"Next"** to continue, as **Fig 4-2-1.4**
5. Click **"Finish"** to complete installation**.**

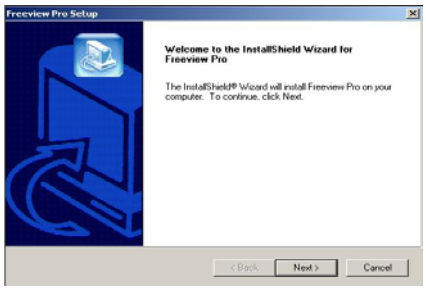


Fig 4-2-1.3

Fig 4-2-1.4

4-2-2. AnyView Pro Software Installation

Follow these steps to install **AnyView Pro Software.**

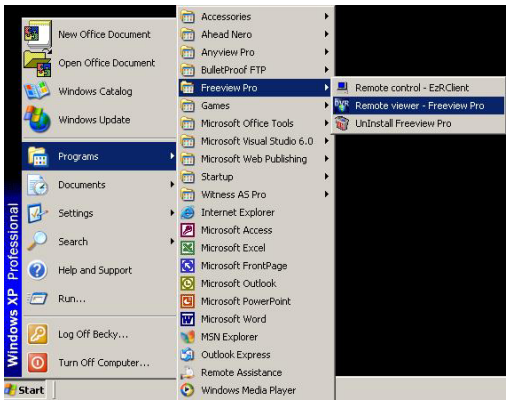
1. Click **"AnyView Pro Software"**, as **Fig 4-2-2.1.**
2. Do the same process as **chapter 4-2-1 FreeView Pro Software Installation** to install the AnyView Pro software.

Fig 4-2-2.1

4-3.Start Using Remote Client Program

4-3-1.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:

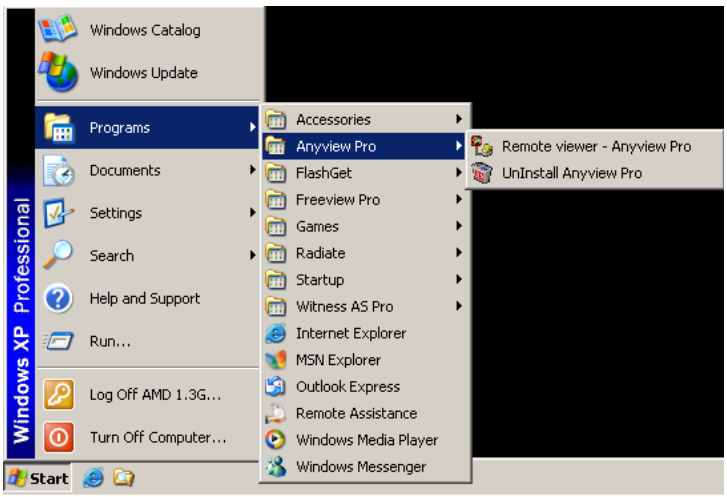


- **Remote Viewer - FreeView Pro:** FreeView Pro enables you to remotely patrol your place from any place at any time as long as you have the access to an Internet.
- **Uninstall FreeView Pro:** Removes FreeView Pro from your computer.
- **Two way Communication- EzCTalk –** Real-time audio from designated locations are simultaneously transmitted to both the control center and designated DVR sites. Please refer **chapter 3-2-11**.
- **Remote Control- EZRClient:** Allows the Remote client to set up the DigiCapII DVR PC from remote site such as operating at the local. The detail setting please refer **Chapter 3-2-8.**

4-3-2.Start Using AnyView Pro

Once you have finished installing the software, two icons will be created for you. 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.



4-4. FreeView Pro/AnyView Pro Program Operation

Many of the functions in FreeView Pro behave similarly or even identically to those of DigiCapII DVR 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 DigiCapII series DVR syetem.

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.

4-4-1. 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** and you should see below window.

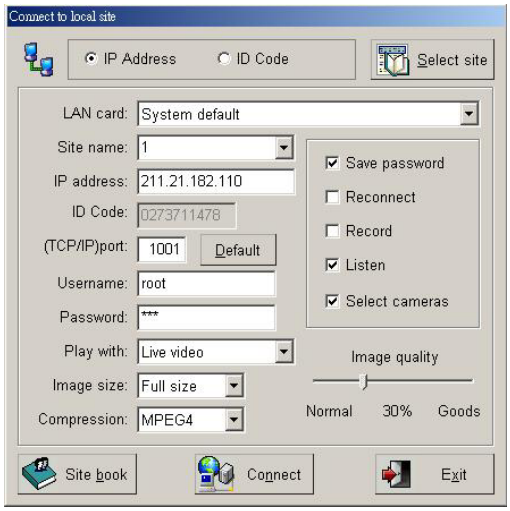


Fig4-4-1.1

3.Connecting to the Local DVR 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 has a 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.

4. Select LAN card, if you have installed more than one.
5. The number of "**TCP/IP Port**" must be matched between FreeView Pro and DigiCapII DVR. DigiCapII DVR default is 1001 Now, choose an option from the **"Play with"** menu. **"Live video"** plays the camera.
6. 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.
7. 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.
8. Choose a "**Wavelet**" or "**MPEG 4**" as **Compression** method for transmitting video.
9. 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.
10. 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.
11. Press the **"Connect"** button to complete the process. FreeView Pro will connect you to the Local DVR Server.
12. "**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.
13. 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)**
14. 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.

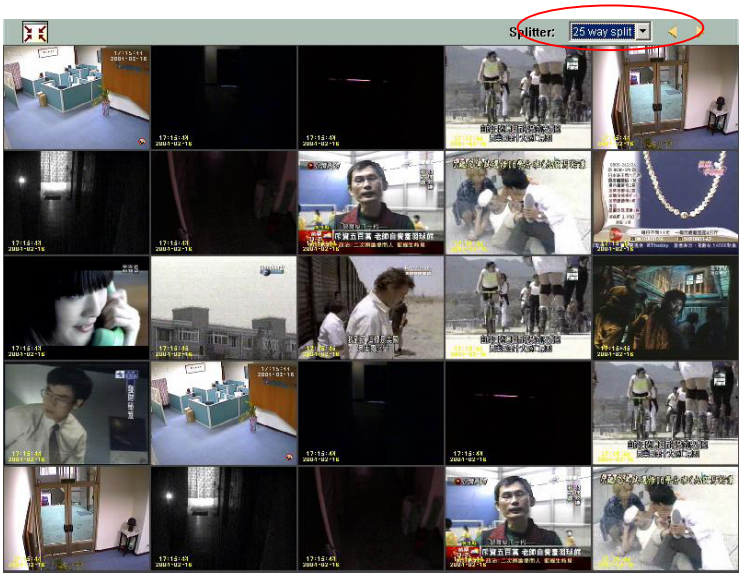
Record It will record videos of the Local DVR Server on remote client computer automatically when the video is connected.

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 36).



Click or to rotate camera views on screen manually. Press or **ESC** key of keyboard again to return to tool bar mode.

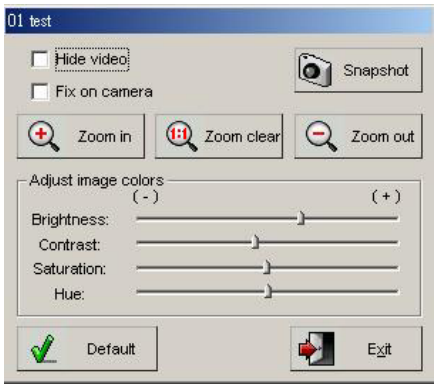
4-4-2. Video window Function Description

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 DigiCapII DVR'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.
- **C**lick 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.

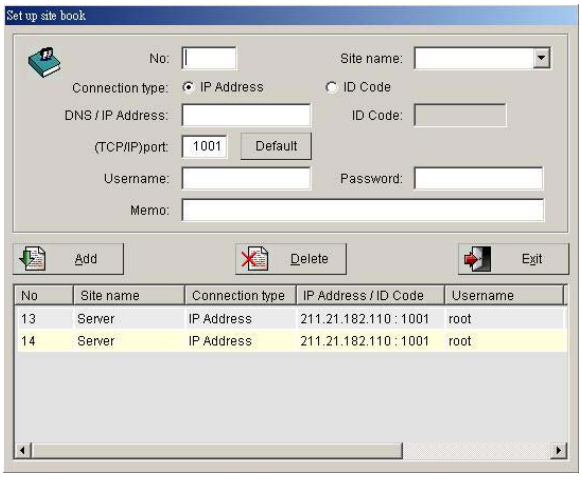
This function is designed to zoom in (amplify) the video display image. After you have screen zoomed in, you can navigate the viewing area by holding down the left mouse key on the screen.

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.

4-4-3. 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.

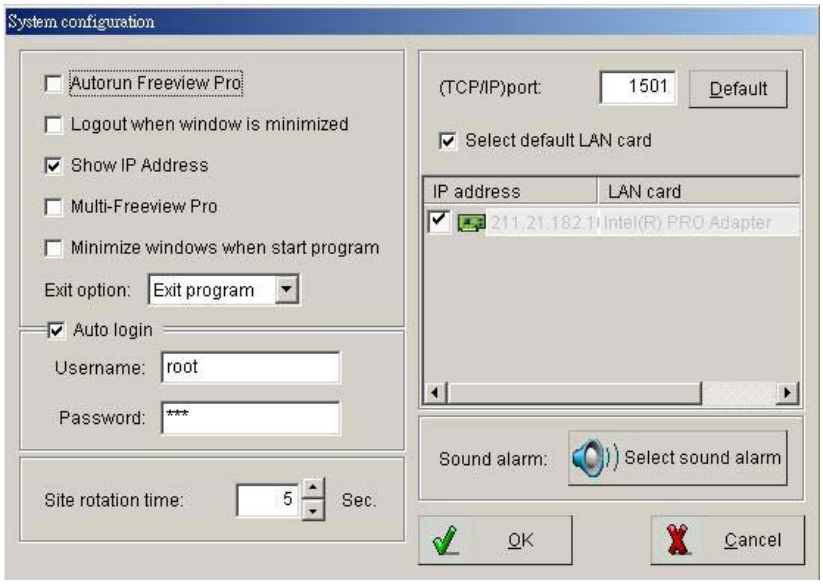


Please follow steps as below to set up the site book:

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 DigiCapII DVR software. DigiCapII DVR default 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.

4-4-4. 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 **DigiCapII DVR** 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 DigiCapII DVR 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 DigiCapII DVR 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 DigiCapII DVR 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 fuction, 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 DigiCapII DVR local server. You can record alarm sound file by yourself.

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

4-4-5. 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 below **Fig 4-4-5.1.**

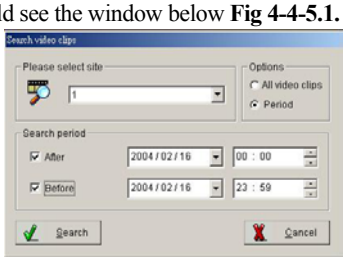


Fig 4-4-5.1

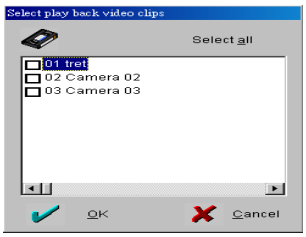


Fig 4-4-5.2

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 **Fig4-4-5.1**. Click the cameras you wish to display and click **"Ok"**. The videos will play concurrently.

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 4-4-5.1.**

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.

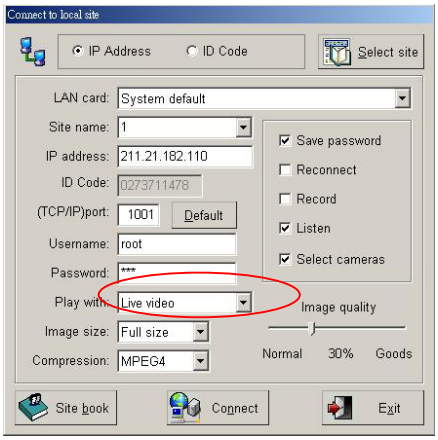


Fig. 4-4-5.3

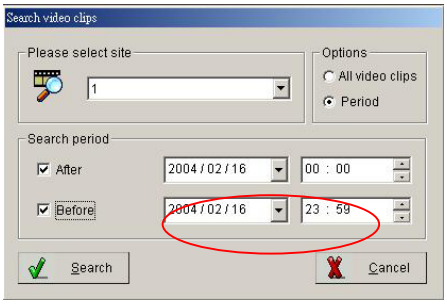


Fig. 4-4-5.4

Remote playback video files on multiple Local DVR Servers

Please connect to all Local DVR Server on the 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

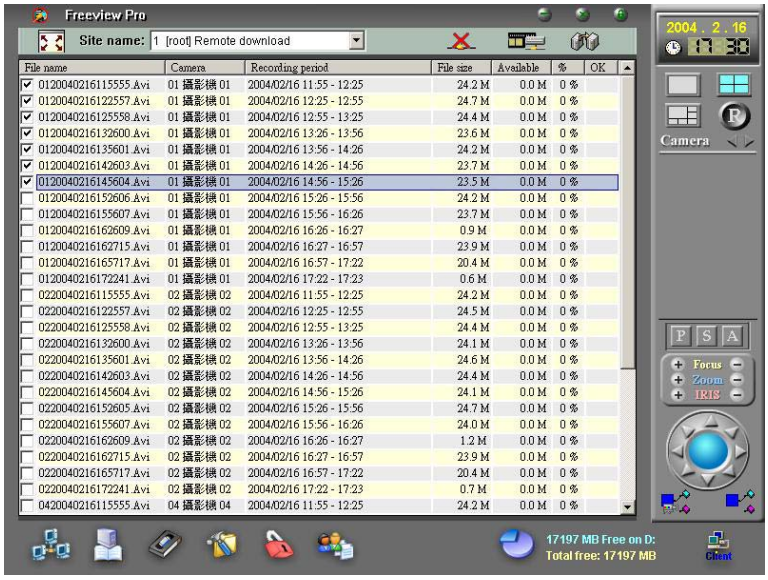
Click to disconnect with the site you select from **Site name** box.

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

4-4-6. Remote Download Video Clips

You can easily download video clips of DigiCapII DVR 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 as **Fig 9-3.1**, 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.

4-4-7. Remote Setting the parameters of DigiCapII DVR

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

Step 1. Connect to the Internet with your remote client computer and DigiCapII DVR server first.

Step 2. **On DigiCapII DVR Server site** Click icon to enable the **Remote Server-EzRServer** program and you should see below window (**Fig 4-4-7.1**). 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. (**Fig4-4-7.2**)

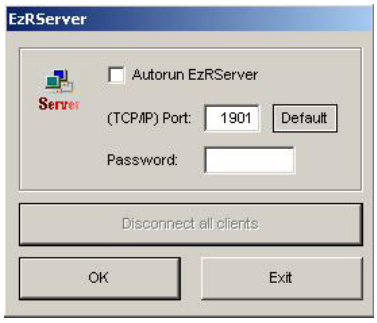


Fig 4-4-7.1

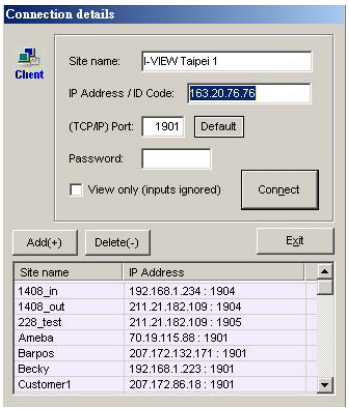


Fig 4-4-7.2

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.

Note: 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 5 Remote Client PDA 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 DSecu ASE/HS/RD) 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.

5-1. PDAView Installation

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.

5-2. PDAView Program Operation

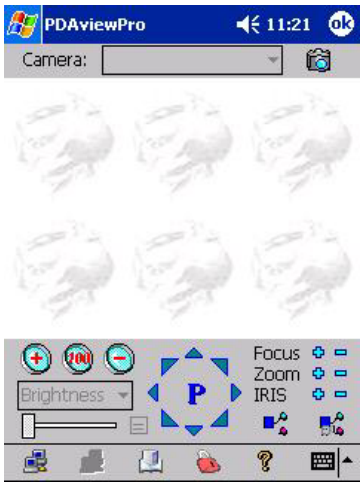


Fig 5-2.1

Fig 5-2.2

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 DigiCapII DVR and FreeView Pro.

5-3. Connecting to DigiCapII Series DVR site

This chapter shows you 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 DigiCapII DVR DVR video.

1. Load the PDAView Pro from the CD-ROM. (Please refer to Fig. 5-2.1)
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 5-2.2.
4. Enter the **"IP Address"**, **"User name"** and **"Password".**
5. The number of "**Port**" must be matched between PDAView Pro and DigiCapII DVR software.
6. Choose an **"Image quality"**.
7. Press the **"Connect"** button to complete the process. PDAView Pro will connect you to the DigiCapII DVR DVR. (Please refer to Fig 5-3.1)
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 5-3.1

5-4. 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 4-4-3.

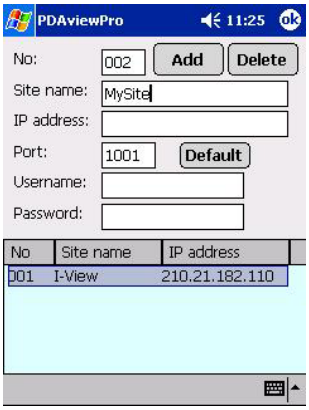


Fig 5-4.1