

IDRS PC Based DVRs IDRS-6000s Server

USER'S GUIDE

Beijing Backbone Computer Technology Co.,Ltd

Tel: 86-10-62975811 Fax: 86-10-62979244

www.chinasecuritysystem.com



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Introductions:

Thank you for purchasing our IDRS DVR system. This operation manual is to introduce how to set DVR system and explain each function of DVR system for you to use the system effectively and stably.

Operators should go through this manual thoroughly before you install/utilize this DVR system. You can get this manual from your dealer or contact us directly.

System features:

- Hardware support H.264 compression, low HDD cost
- Web access through LAN or WAN.
- Real time full-motion video-capture & display (Up to 64 channel video input)
- Real time high-speed recording: Up to 30 fps per channel
- Synchronous audio recording (optional)
- Motion detection (Whole area or up to 12 detection zones per channel)
- Normal recording (continuous) and event recording (Motion detection or external sensor)
- Electron Map pop-up when alarm happens
- System operating and alarm logging
- Alarm-before recording
- Remote recording
- Sending alarm message automatically.
- Sending alarm image to email box as attachment automatically
- Matrix display and group display
- Duplex mode (Recording while playback)
- Network support (Remote access via LAN, Ethernet, PSTN, ISDN, ADSL)
- P/T/Z/F & speed demo control on keyboard
- Search/playback by date/time directory (random-access)
- Backup & burn CD directly
- Remote talking between server and client or server and server

Important Information:

For optimal performance of your system, it is important to follow these recommendations.

1. We recommend that you divide your hard disk into two partitions (E.g. C and D :) at least. The first partition is used to install Windows OS and system software, the other for storing record files.
2. Please use appropriate motherboard and display card. Contact your dealers or our support engineers if you have questions.

Recommended System Requirements

Chipset: Intel 845PE, 865PE, 875PE, 915P, 945P

Motherboard: Intel: D915/945PCY, D865PERL

Asus: P4P800SE, P5P800 MSI: 865PE Neo2-F, 915/925/945;

Gigabit: GA-865GME, GA-945PL-G etc

Video Card: ATI Radeon 9250 128MB, ATI Radeon 9550 128MB, ATI X500, X550, X700 etc

Processor: Intel Pentium 4 2.4GHz or better

Memory: 512MB minimum

Chapter 1 Installation

1.1 System installment and hard disk district

Take a hard disk as the example

- 1) Establishes main district C: (3GB) (operating system & application software.)
- 2) Establishes expansions district (is left over hard disk 100%).
- 3) Establishments logic district D: (4 GB) (Uses in application program backup);
- 4) Establishment logic district E: (Surplus hard disk space) (Uses in video document)

Note:

If installs two above hard disks, besides the first hard disk, other hard disk each only establishes an expansion district, and only establishes a logical district, is in turn F:

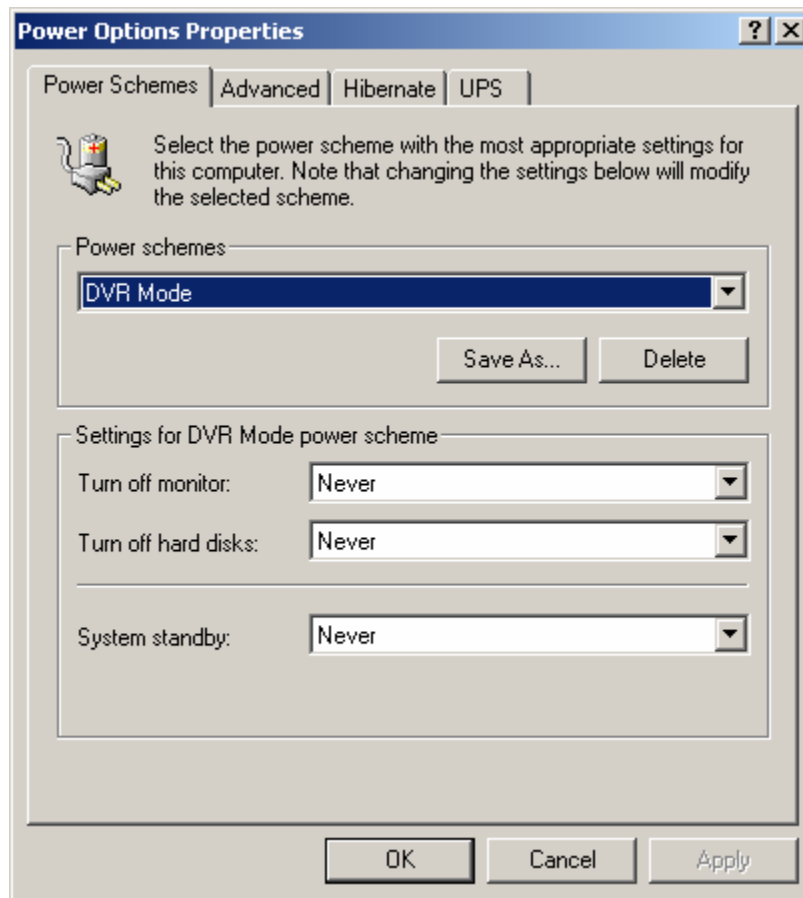
G:

- 5) Installs the Windows 2,000 operating systems
- 6) Installs the main board drivers
- 7) Installs the IAA storage device driver
- 8) Installs the display card driver, setup the display resolution as:

color: true color (32 bit)

Screen region:1024×768

- 9) Changes the Windows2000 power Schemes management is following way:



10) Installs DirectX8.0 or a higher edition.

1.2 Installs DVR Cards driver

If you first install the card or upgrade the PC Based DVR software, you should install or update the card driver. The steps are as follows:

- 1) Double-click the driver installation program “DriverInstall.exe”, a dialog will display.

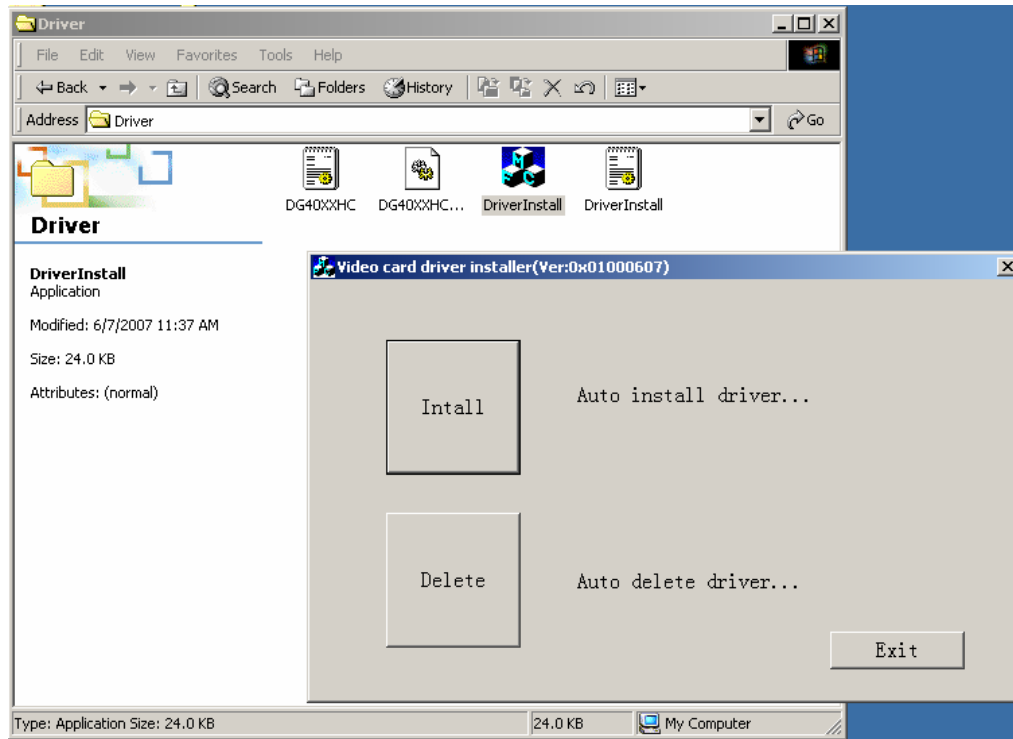


Figure 1: Double-Click “DriverInstall.exe”

- 2) Click “Install” to install drivers. When it informs that all drivers have been installed successfully, you can click “OK” button to exit the program.

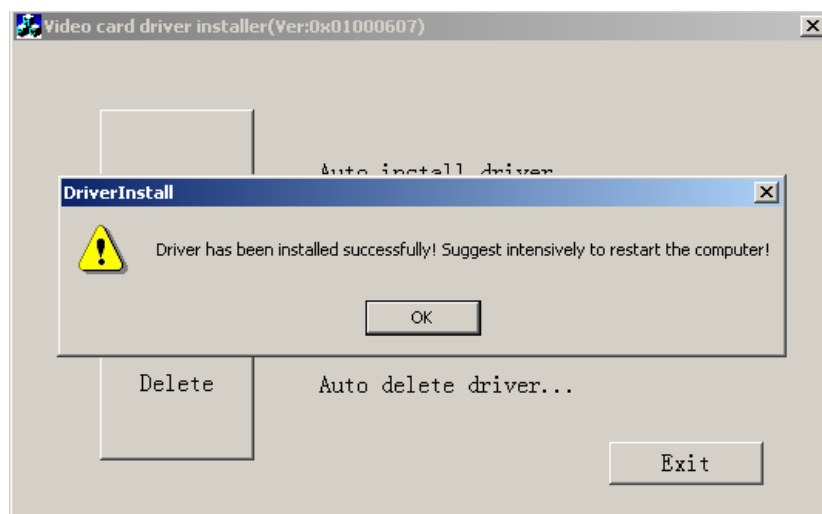


Figure 2: Finish installation

3) After the Drivers has been installed. When we open the Device Manager, we will see the following window. "H.264 IDRS-60xxES CARD" sign driver has been installed successfully. Each card DSP chipset will own one driver here.

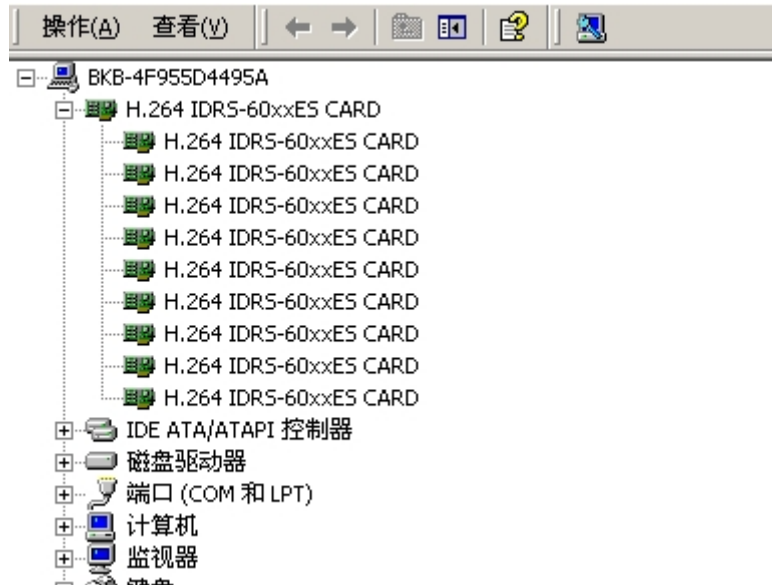
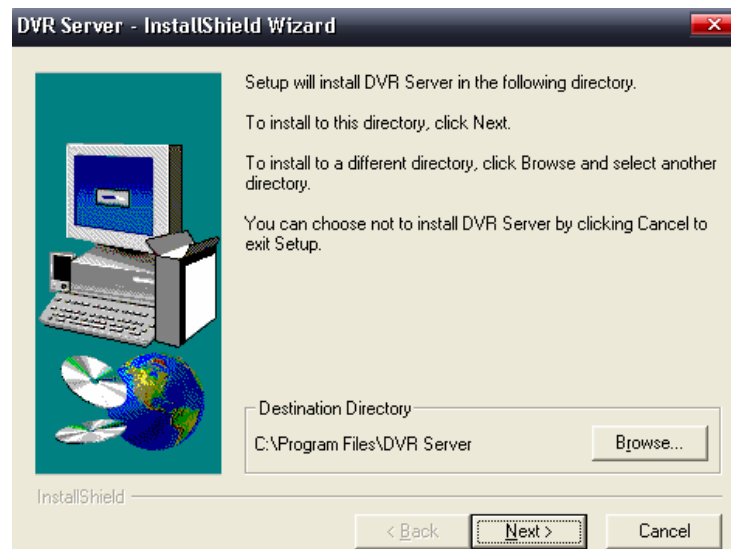


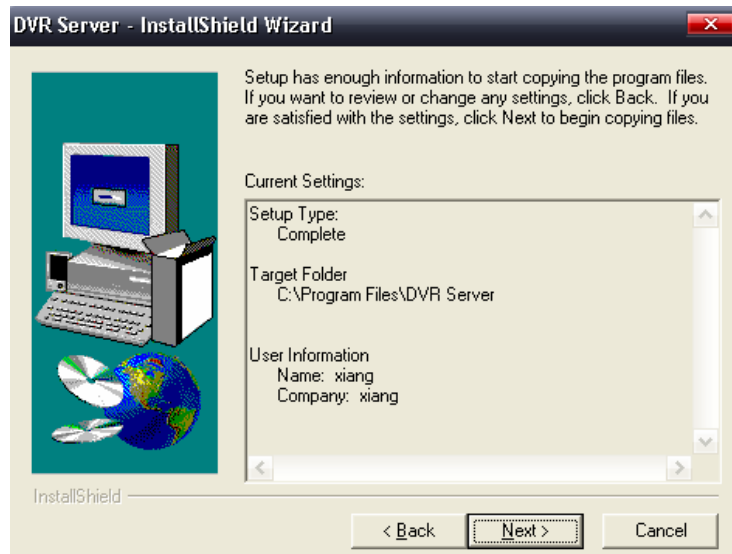
Figure 3: Check drivers had been installed

1.3 Install DVR Server software

Find the files of IDRS DVR Sever and open it and double click the SETUP.EXE. Like the following picture:



You can choose the position of the software installation here, and then click the "NEXT" after you have chosen one.



Confirm the installation information, then click “NEXT”, after the installation process completed, Click “FINISH”. If it is successful, the desk will popup automatically a



button **DVR Server**, please double click this icon, you can start to use this software.

Chapter 2 Start up and Main Interface

2.1 Start up

- 1) Before you run DVR server, please check all connectors are firmly connected.
- 2) By default, DVR Server application will run and initialize cards automatically (total time is determined by the number of channel, about 4-10s). Otherwise, you should



Left-Double-Click shortcut icon **DVR Server** to start it. The main interface is as follow:







Note:

When you run the system first time and you do not have the valid register of the cards, system will popup a dialog to show that you work in test mode. After you confirm it, system will work in test mode normally.

2.2 Main Interface

2.2.1 Show tips

1. When the mouse moves closely or stops above a button, a text tip will be shown to interpret the function of it immediately.
2. Zoom in/out video image: Left-Double-Click a camera window to zoom in/out video image (or [press F11 on the keyboard](#)).
3. System will detect cards and read the total number automatically, and the corresponding number buttons will be displayed dynamically.
4. Recording status:
 -  a. This icon means the system is recording normally.
 -  b. This icon means the system is recording manually.
 -  c. This icon means the system is recording in motion detection.
 -  d. This icon means the system is recording in sensor detection.

2.2.2 Screen menu

Press TAB key or Page UP (select next camera window) and Page Down (select previous camera window) key on keyboard to select one live camera window.

2.2.2.1 Full screen

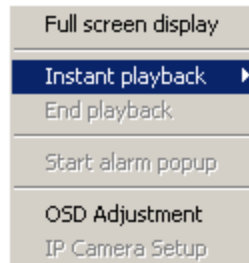
Single-Right- Click image area, it will popup a menu, then select “full screen” to change display mode to full screen (or [press F12 on the keyboard](#)). When you want to resume origin mode, you should single-right- click image area and select “Restore display”.

2.2.2.2 Instant playback

Single-Right-Click desired camera window and select “Instant playback” (except IP Camera, it can just play back instantly in the window that is not used). After that, choose a time from the submenu, and then system will play back video data of current camera in current window according to your selection (E.g.: you select 1min, system will play back previous 1 minute video data of current camera in current window). Also, you can play back video data of one current live camera in a window that is not used by any cameras (always black background with no “Video Loss” information, IP Camera can only play back instantly in those windows): Select a window, and then Single-Right-Click it to select “Instant playback”. Finally, choose a time and the camera you want to playback,

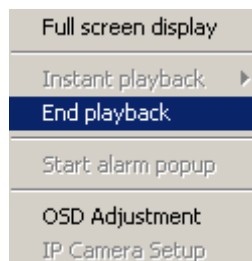
and then system will play back video data in current window according to your selection.

The window that is playing back video data will indicate a yellow border to be different from the live windows.



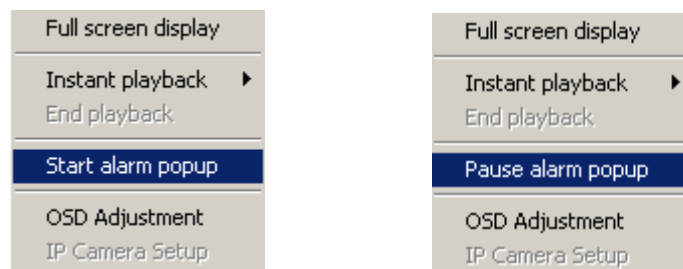
In the course of the instant playback, you can press "**Space**" key to switch the **play/pause** status or direction key "→" and "←" to play next and previous frame.

If you want to stop the instant playback, you can Single-Right-Click the play backing window, and select "End playback".



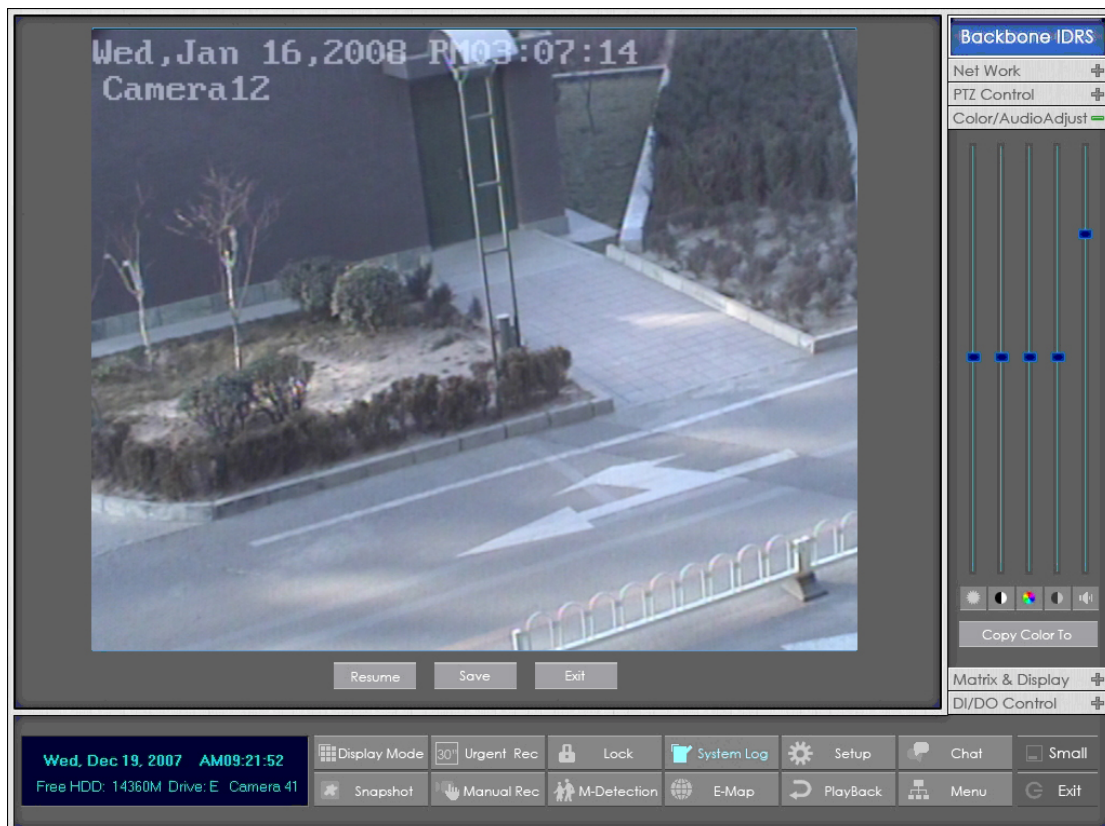
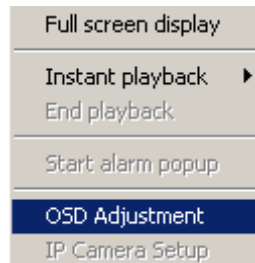
2.2.2.3 Alarm popup


Single-Right-Click video image area in main interface and select "Start alarm popup" after you [set "Alarm camera popup interval" in system setup](#), otherwise, it can't be selected with gray. After that when there has a motion detection alarm ([set in PTZ & Linkage setup](#)) or an alarm triggered by sensor ([set in Sensor setup](#)), system will display alarm cameras in sequence. But this function does not include IP camera, even IP camera have alarms, there images will not pop up. When you want to end this function, you can Single-Right-Click video image area and select "Pause alarm popup".




2.2.2.4 OSD Adjustment

Single-Right-Click video image area in main interface and select “OSD Adjustment” to adjust the position of OSD (IP Camera does not have this function; you can set the OSD position in [IP Camera setup](#) remotely).

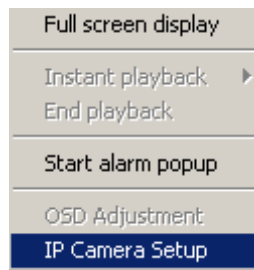


OSD includes time and channel name. In this screen you can press time or channel name and drag them to where you want directly, after that you can press 

button to save and press  button to resume time and channel name to default position.

2.2.2.5 IP Camera setup

For this function, it is only available when you Right-single-Click image of IP camera.



It will describe in details in IP Camera Setup.

2.2.2.6 Change record disk

From the information display panel you can see the current recording disk, and when you Single-Click corresponding of the panel, it will show the available disk with its total free spaces. Also you can change the recording disk by selecting the disk directly. The system will check the disk per 10s, and it is recommended that you change the recording disk to local disk when system is writing data into removable disk before you remove it.



When the capacity of HDD is not enough or there has some mistakes while recording, system will pop up information to inform the failure of recording and the corresponding camera will stop recording.

2.2.3 Interface description


2.2.3.1 Information display panel



This panel shows day of the week, current date, current time, total free hard disk space,

current record disk and description of selected camera

2.2.3.2 Partition mode


Press  **Display Mode** button to set the window's partition mode of the main screen.

There are many types partition; the available partition is determined by the total channels of card, you can select the suitable partition according to the number of video inputs, the partition number which is bigger than total channel is not available with gray.




1 View
4 View
9 View
13 View
16 View
20 View
25 View
28 View
33 View
36 View
40 View
49 View
64 View


2.2.3.3 Emergency recording button

Press  **30s Urgent Rec** button to trigger recording of all cameras for 30 seconds even if they have been set to record by any other modes. This function is useful to deal with emergency where quick response is required.


2.2.3. 4 Image capture

Press  **Snapshot** button to save a still image of selected camera to local hard disk for reviewing or print.



2.2.3.5 Manual record switch

Press  **Manual Rec** button to record manually and press it again to stop manual recording for selected camera.


2.2.3.6 Motion detection area & Cover setup

Press  button to Motion detection area & Cover setup.

This function allow user to set the built-in motion detection.


By default, the entire screen is set as motion detection area where is indicated with green border around the image. To mask a specific area, you can click  button to cancel the full screen detection border; then Left-Single-Click and drag a rectangle. A green rectangle will mark the area of it. Also, you can set any other areas. Any activities in the motion detection areas will trigger recording, depending on the reaction mode; and alarms may be generated along with electronic map icons flashing in alert mode. Click  button to test the sensitivity of motion detection. The sensitivity can be adjusted by dragging the slider bar below the motion detection window.

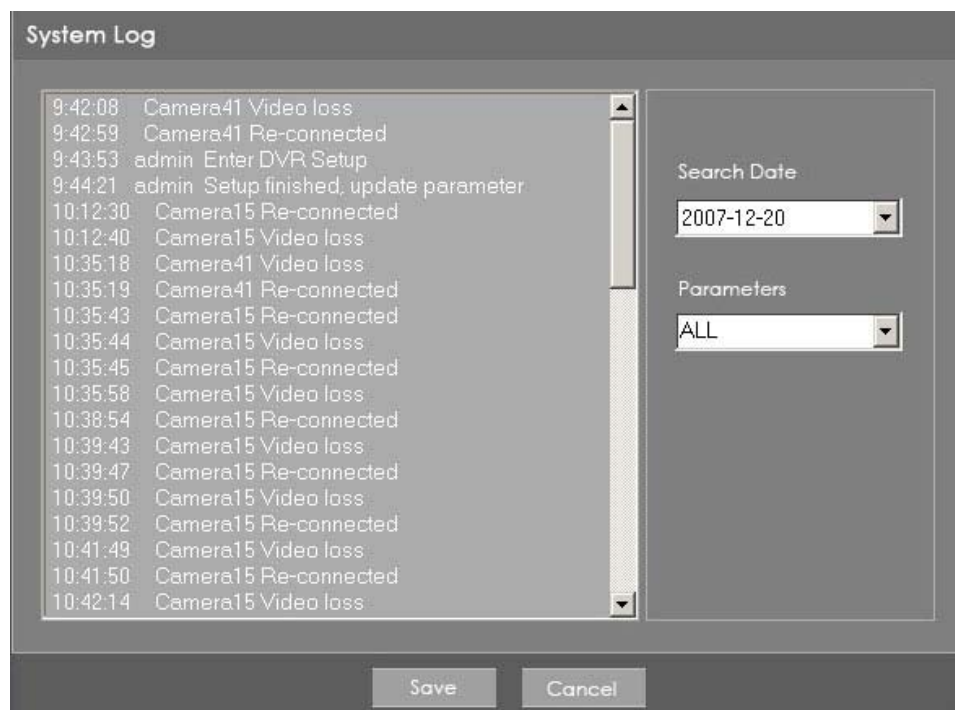


Press  button to add mask. If there are some areas that you don't want to show, you can draw those areas with mouse till they change to be black. You can set several cover areas. Press this button again to finish adding


Press  button to delete all cover areas.

2.2.3.7 View system log

Press  button to system log. This function allow user to view all actions of recording as well as operations. System log keeps a record of system events such as program startup and shutdown, changing camera setup and all Operator or System daily activities according to time and date. Users can look log by date and system parameters. System parameter includes operations, system prompts, alarms and other activities.



2.2.3.8 Open Electronic map

Press  button to setup Electronic map. Click SETUP icon and then click the right arrow on the map, the picture on the right of the map will appear. You can add or delete sensors and cameras (the cameras are those pointed by the arrow). You can also change the digital map (as following):

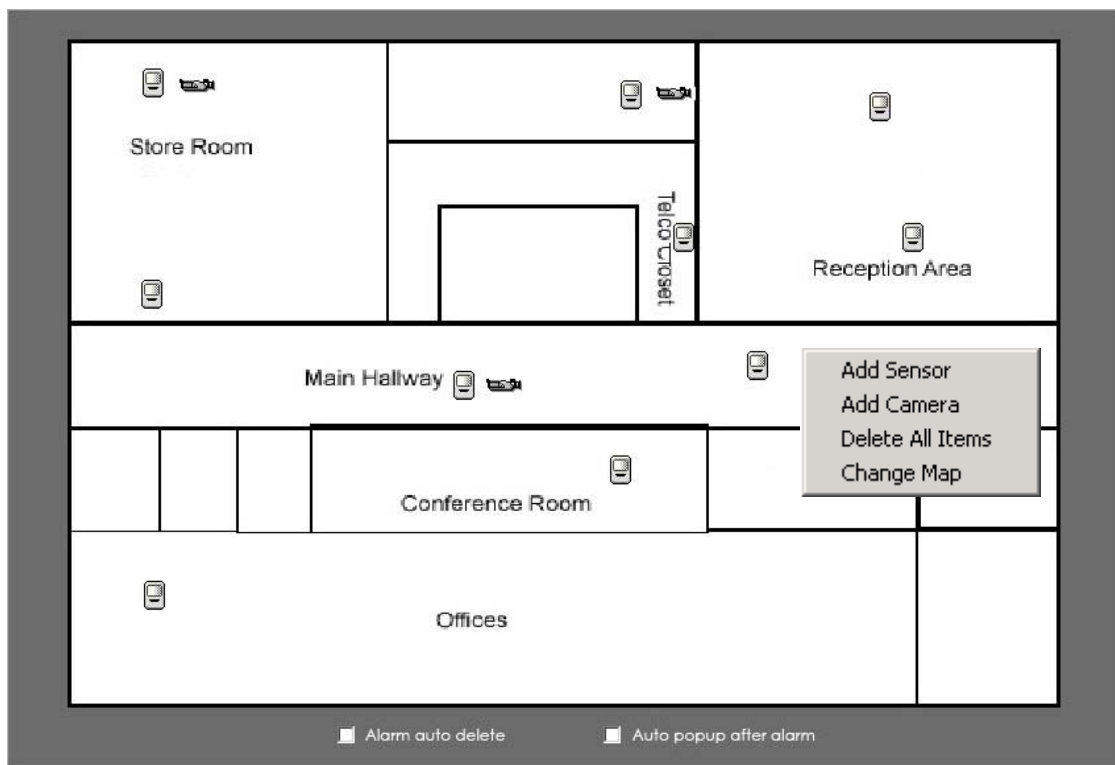




Figure1— 1

If it is set to appear automatically, when the sensor is touched, the map will appear automatically and the sensor being touched will be marked

2.2.3.9 Local setup submenu

Press  button to enter [Local setup](#) submenu.

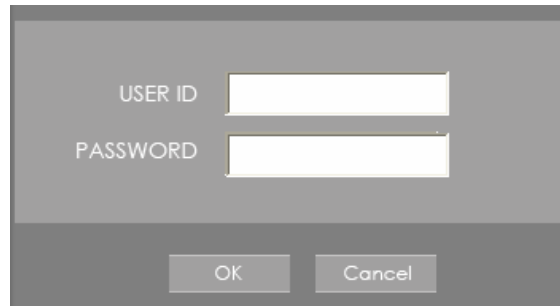
2.2.3.10 Playback submenu

Press  button to enter [Playback](#) submenu to search local video/audio data.

2.2.3.11 System lock

Press  button to prevent unauthorized user to operate system. Press this

button again; the unlock dialog box will be displayed. Input your User ID and password then press OK to unlock it.


A dialog box for unlocking the system. It has a light gray background. At the top, there are two labels: "USER ID" and "PASSWORD". Below each label is a white text input field. At the bottom of the dialog box, there are two buttons: "OK" and "Cancel".

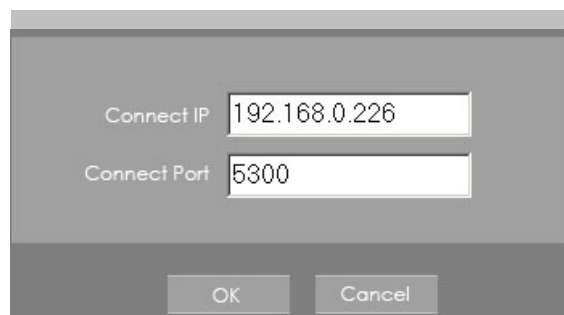
Default User ID is “**admin**”, no password.

Note:

If the DVR system is not configured as User Manage Mode, the lock button will be unusable and allow any client's access (even in client program, user name and password will be useless)

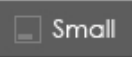
2.2.3.12 Remote chatting

Press  button will popup remote chatting interface. Then you can put into the end customer's IP address and corresponding port (default: 5300), then press OK. As below image:

A dialog box for connecting to a remote client or server for live chatting. It has a light gray background. There are two labels: "Connect IP" and "Connect Port". Below "Connect IP" is a white text input field containing the value "192.168.0.226". Below "Connect Port" is a white text input field containing the value "5300". At the bottom of the dialog box, there are two buttons: "OK" and "Cancel".

Select this function to connect a remote Client or Server for a live chatting via IP address, but first, you should be sure you have installed audio card and Microphone in each PC.

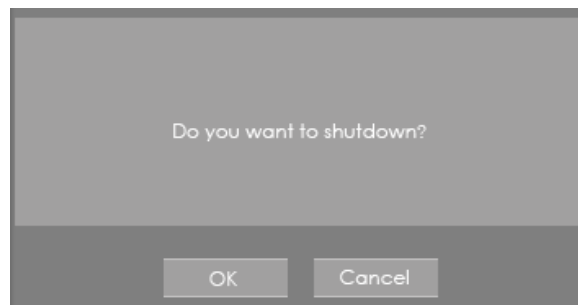
2.2.3.13 Minimize button

Press  Small button to minimize the main window (or press WIN + Z on keyboard).

2.2.3.14 Exit program

Press  Exit button to exit program.

After clicking this button, a dialog will display. Click "OK" to quit DVR system.



2.2.4 System Menu

Press  Menu to list other functions



2.2.4.1 Backup System Parameters

Select this function to export system configurations.

2.2.4.2 Import System Parameters

Select this function to import system configurations.

2.2.4.3 DVD/CD Disc backup directly

Select this function to burn video data to CD, it is same to burn CD function in [Playback](#) and burn DVD

2.2.4.4 Execute a external program

Select this function to execute an external program

2.2.4.5 Write working log

This is useful to record events that occur during the operator's shift.

2.2.4.6 Open Explorer

When keyboard is locked, Users can operate window resource via explorer.

2.2.4.7 Open Screen Keyboard

This function allow user to use soft keyboard, you can press this bar to open the screen keyboard. Also, in the setup interface you can Left-Double-Click the blank to open this keyboard. User can close this keyboard manually.

2.2.4.8 Keyboard shortcuts setup

If you don't want to use certain shortcut keys, you can disable the shortcut functions and save the setup.

2.2.4.9 IP Camera Device List

Press this bar to add IP Module to DVR system. For resource limitation, you can add max 16 IP Modules, including DVS and EM DVR, but every device can only add one channel to DVR system.

[illegible]

(1) Add IP camera device

Press button to add an IP Camera device:

Add/Modify IP Camera

Server Name

IP Address

Connect Port

IF Use Dns to Get IP

Login User ID

Dns Server IP

Login Pass

Dns Server Port

OK Cancel

[Server Name] Set a name for the new IP camera device.

[IP Address] Input the address of the IP Camera, it is an IP address or IP alias of an IP camera which is connected through DNS Server.

[Connect Port] Set the port through which connects to IP Camera

[Login user ID/Login Pass] When the user want to visit IP Camera and the server has used the function of rights management, login user ID and password will be checked. If

the user has no right to visit that camera, the connection will be cut down automatically.

[If use DNS to get IP] Select whether use DNS to get IP or not, if the server end is the dynamic IP address, users need use DNS to get the IP of the server.

[DNS Server IP] Set IP address of DNS server host.


[DNS Server Port] The port of DNS server host, which is provide to connect DNS software.

When you finished adding IP Camera to DVR system, it will show the status of that camera, including Sever name, IP Address, connect port, sequence number for IP Camera, connect status and register information.


Note:

1. Currently our DVR server can maximums add 16 channels IP cameras. For each device, system allows to connect maximum 4 cameras.
2. After you add IP cameras to DVR system, they will be collocated sequence numbers after local board cards. The sequence numbers of the IP camera change dynamically according to the total numbers of local board cards and the sequences of the IP cameras to be added. For example, if there have 32 channels local board card, then you adds 2 IP cameras, they will be collocated 33 and 34 as their sequence number. Then if you add another board card (4 channels), the sequence number of them will change to 37and 38 dynamically.

(2) Modify IP camera

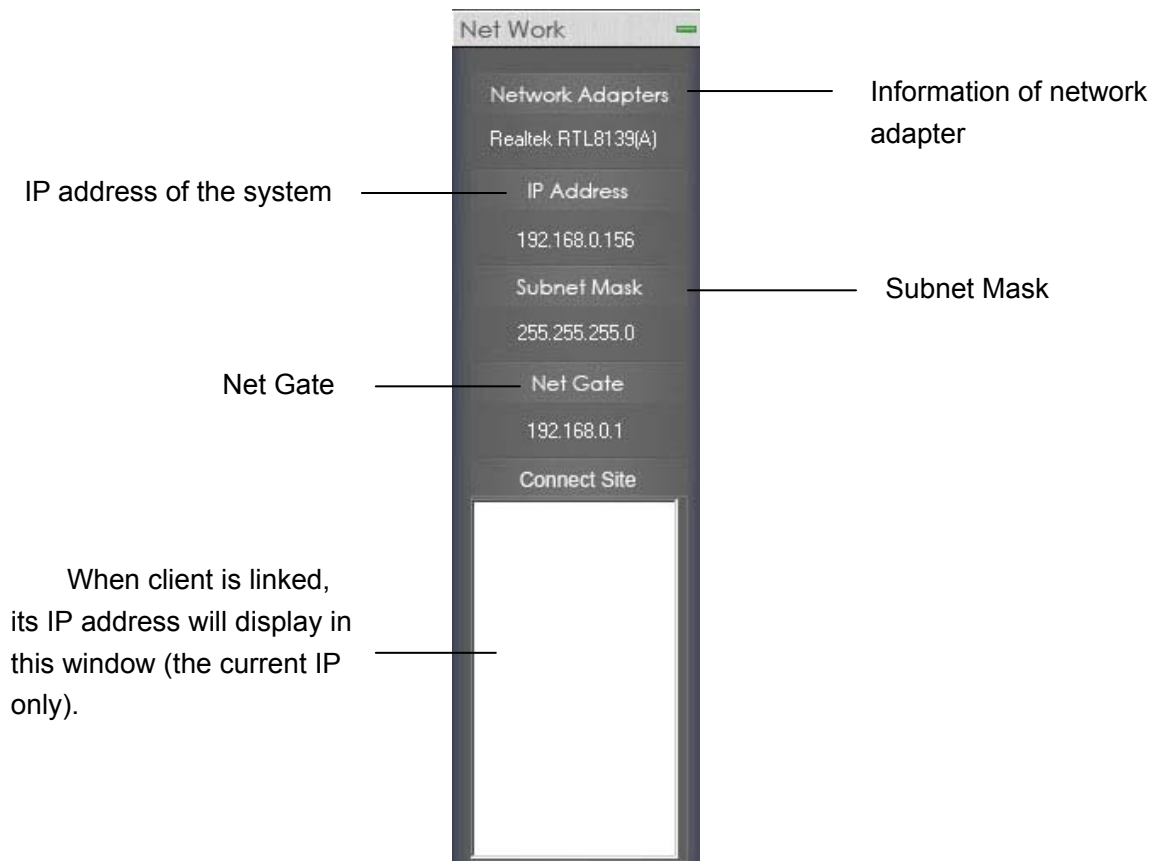
Press  button to modify IP camera's information, its interface is same as [Add IP Camera](#).

(3) Delete IP camera device

Press  button to delete connected server. When system is in processing to add IP camera device ("connecting..."indicated in connect status column), user can not delete that IP camera device.

2.2.5 Network panel

This panel displays the network configuration of DVR system.



2.2.6 PTZ Control panel

Press **PTZ Control** button to control PTZ.

2.2.6.1 Common PTZ control

Relays **[Relay] (On/Off)**: Control the PTZ cameras internal relay (relay1) or the decoder's relay (relay 1). Used to turn on a light or control an access gate.

Wipers **[Wiper] (On/Off)**: If using the PTZ cameras corresponding wiper control relay, this toggles the relay/wiper on and off.

Zoom **[Zoom + / Zoom -]**: Control the zoom function of the PTZ camera.

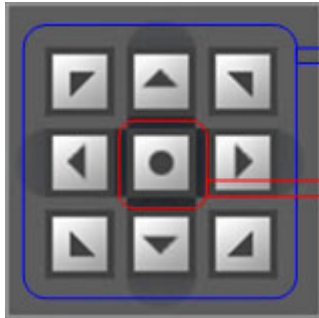




[Focus + / Focus -]: Overrides the auto-focus setting of the PTZ camera, adjust focus the image.



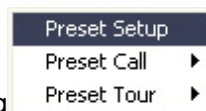
[Iris + / Iris -]: Overrides the PTZ cameras auto-iris and brighten or darken the image.



By press and holding these buttons, the PTZ camera is moved up, down, right and left as well as other directions.

Pressing this button initiates the connected PTZ camera to do an automatic tour of 360°.

2.2.6.2 Speed Demo control



Click this button, there will popup a menu, including

The premise of setup is the front-end PTZ and decoder supporting preset and shift speed functions.

Adjust the platform and lens at some position you want, then mark this position (when setup the preset and add the preset, the same), so that, can make the platform shift to the marked position quickly according to requirement.

(1) Preset setup

DVR Camera41 admin

PTZ Speed

Add/Del. Preset

Preset Name

Preset No. 1

Call Mode Call Preset

+ - SET

Preset Name	NO.
001	1
002	2
003	3
004	4
006	80
005	90

No PTZ Action 30 Sec Back

Home Position 001

Tour Preset TourGroup1

Preset Name 001

+ - Stay Time 5 sec

Preset Name	NO.	Time
001	1	10
002	2	5
003	3	12

Save Exit

Here to adjust the speed of platform

Preset setup: firstly, put the name you want to call in Preset Name. Secondly, you can select the No in Preset No. Call Mode will make you select the order for preset "call" or "setup". Then click **+** to add this present, then, this position can be displayed on the bellowed list. If you want to delete some presets, first select it then click **-**. If you want to alter exist preset order, firstly, select it on the list then change it, at last click **SET** to save.

No PTZ Action 15 Sec Back Here to set up one time, if you do not operate it within this time, the software will auto shift to the position you setup on Home Position dsfigrfdid. If you select "Disable" on the time function, that means you will not use this function.

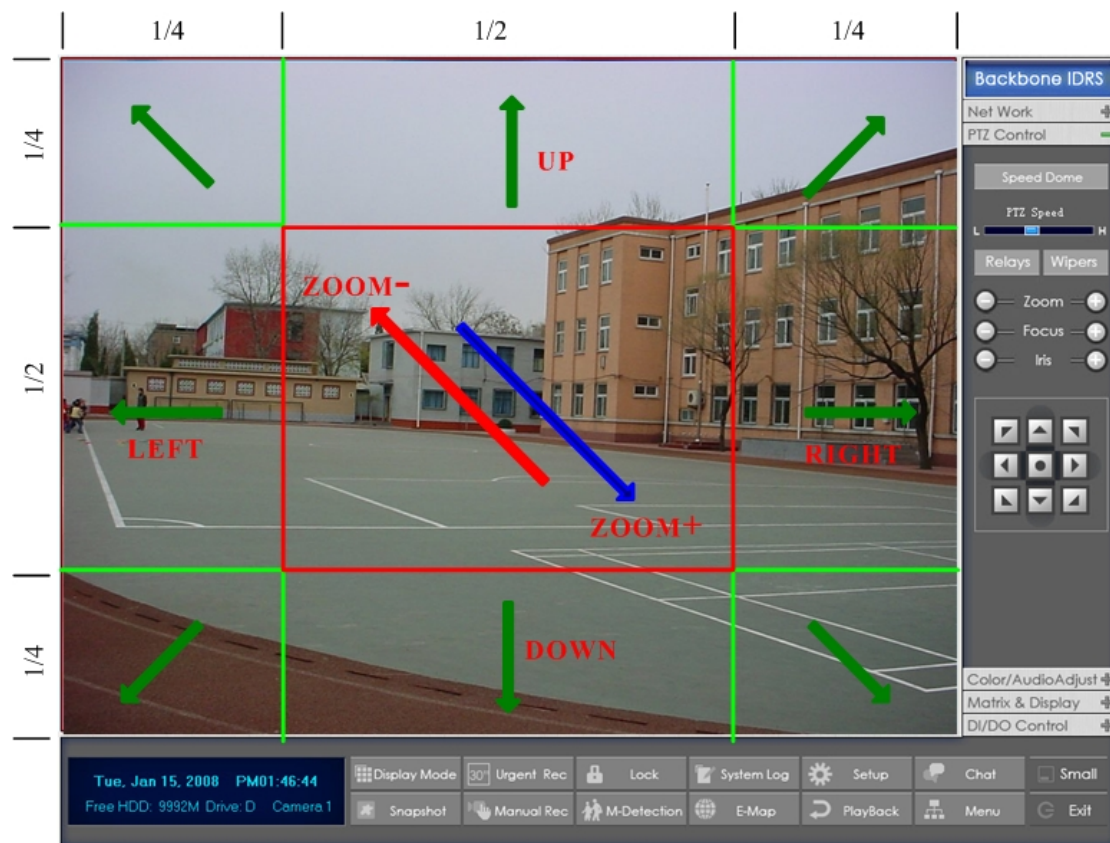
Preset tour: Firstly, from Tour Preset TourGroup1 to choose one group, then from Preset Name 001 to choose one position, from Stay Time 5 sec to choose the stayed time of that position, finally, click **+** to add the plan on the list. After that, click "save" to save everything you set.

Take the above picture as example: group 1, tour between 001、002、003 position, but the PTZ will stay 10 Sec at 001, stay 5 sec at 002, and stay 12 sec at 003.

(2) Preset call: Let the mouse suspend on this area, there will auto popup the list of presets, then click the No. of preset needed to call on the list.

(3) Preset tour: Let the mouse suspend on this area, there will auto popup the list of tour plan, and then click the No. of tour plan on the list.

2.2.7 Control PTZ via video window

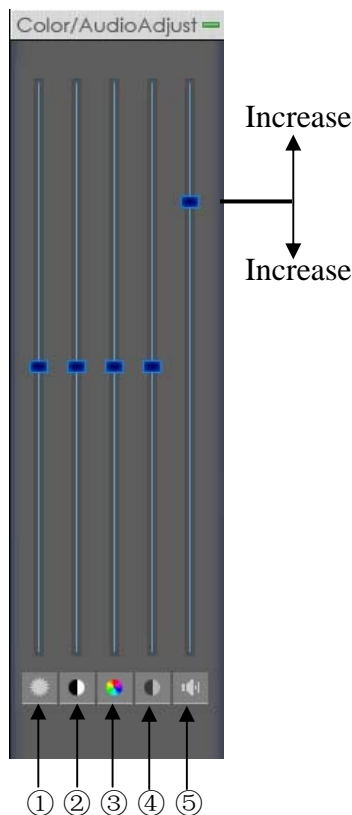







On the Image 3, each rectangle area is the effective area of every action. Arrow denotes the direction of the action. Pressing and dragging the mouse to the corresponding area can control the PTZ.


2.2.8 Matrix & display

This panel includes matrix group and display group. Each group includes 16 numeric buttons; each button denotes one type of matrix or display. This will describe in [System setup](#).

2.2.9 Color and Audio adjustment



- ① Press the first button and drag to adjust the brightness of the image that you selected, and you can resume its default value by pressing .
- ② Press the second button and drag it to adjust the contrast of the image that you selected and you can resume its default value by pressing .
- ③ Press the third button and drag it to adjust the hue of the image that you selected, and you can resume its default value by pressing .
- ④ Press the fourth button and drag it to adjust the saturation of the image that you selected, and you can resume its default value by pressing .
- ⑤ Press the fifth button to switch sound of the audio that related to the image you selected and drag the bar to adjust the volume, and you can resume its default value by pressing .

[Copy Color To]: By pressing the  button to copy the color and audio adjustment in this camera to the other.

2.2.10 Do Control

Press number to open/close alarm device relay switch manually. The status of DO have two types:


 Output channel 2 is close.

 Output channel 1 is open.

When there has no alarms triggered out, user can press the number button to output alarm forcibly and the button will show it with green, press it again the output will be closed.



Chapter 3 Local setup

Click  Setup in the main system screen to enter the DVR local system setup. It includes 7 types configuration setup (in the bottom of the interface):

System Setup	System setup	Camera Setup	Camera setup
Sensor Setup	Sensor setup	Ptz&Linkage	PTZ & linkage setup
Email Setup	Email setup	Matrix Setup	Matrix & display setup
Password Setup	Password setup		

3.1 System setup



The screenshot displays the 'System Setup' window with the following sections and settings:

- System Setup:**
 - Number of Channels: 64
 - Sensor Inputs(DI): 8
 - Sensor outputs (DO): 8
 - Audio Monitoring: Disable
 - Use E-Map: Disable
 - Camera Sequencing: 2 Sec
 - DI/DO Port: (empty)
 - System Keystroke: Allow
 - Save Log For: 30 Days
 - When Disk is Full: Overwrite Data
 - Recording Disk: D:\
 - Alarm Camera Popup Interval: (empty) Sec
 - DI/DO Device: IDRS7608
 - Date Format: Sat Jan 22, 2005
 - Default Camera Type: NTSC
 - Alarm Beep: Disable
 - Time Format: PM 03:12:18
 - HS Card 4CIF Record: Disable
- Network Setup:**
 - Remote Connection: Enable
 - Remote Connect Port: 5100
 - Remote Buffer Priority: smooth
 - Permit Max Connect Video Num: 128
 - Web Server Port: 80
 - Automatic Alarm Notification Client IP: (empty)
 - Alarm Send Port: 5300
 - Use DNS: Disable
 - Local Host Name: (empty)
 - Interval Connection Time: 120 sec
 - Dns Server IP: (empty)
 - DNS Connection Port: 7100
- Boot Setup:**
 - Exit To Windows: (radio button)
 - Exit and Shutdown: (radio button)
 - Auto Shutdown: (radio button)
 - Auto Shutdown Time: 0 H 0 M
 - Auto Reboot Date(Mon-Sun): 1 2 3 4 5 6 7
 - Reboot at: 0 H 0 M

3.1.1 System setup

[Number of Channels] Display total channels of local board card, the number of IP Camera are not included. For IP Camera, you should set it remotely in [IP Camera setup](#).

[Sensor Input(DI)] Display number of sensors (DI).

[Sensor output(DO)] Display the number of alarms(DO).

[Audio Monitoring] Select real-time monitoring audio or not

[Use E-Map] Select use Electron Map or not

[Camera sequencing interval] Set auto-split changing interval time.

[DI/DO Port] Select sensor/alarm driver connecting port, it must be different from PTZ Port. If you do not use alarm input, you can close this function. To avoid conflicts to the PTZ port, you should set and use the different ports for these two functions.

[System Keystroke] When it is enabling, functions of some system keys will be disabled (Ctrl + Alt + Del included).

[Save Log for() Days] Log saves days(max 100 days).

[When disk is full] Select record mode when there is not enough HDD free space. If selected "Overwrite data", DVR system will delete the recorded data of the oldest day automatically to free HDD space for new record. If selected "Stop recording", DVR system will stop recording and give a warning message

Notice:

Each disk will reserve 1000M space.

[Recording Disk] Select the first disk from which the DVR system saves data. The previous disks of this one will not be used to record and it will not be checked by the system. When the capacity of HDD is not enough or there has some mistakes while recording, system will inform the failure of recording and the corresponding camera will stop to record.

[Alarm camera popup interval] Set the interval of alarm camera, if you select "—",you can not select function "Start alarm popup".

[DI/DO Device] Select receive alarm device type. When you change the type of alarm device, you should reboot the system to update the device information in [DI/DO control panel](#).

Note:

Note: Currently, system support following DI/DO devices: IDRS7608, IDSR7609, IDRS7616, IDRS7616B, IDRS7632 and IDRS7632B. IDRS7632 includes two IDRS7616 (or combination of IDRS7608 and IDRS 7616), and IDRS7632B includes two IDRS7616B. When you select these two selections you must set their decoder address as 1 and 2, and they should connect with PC through RS 485 converter after they

connect parallel with each other.

[Date Format] Select the way to display date. It decides the date display mode of DVR system, including the information panel on the main screen, the date panel of the playback window and OSD date in video.

[Alarm Beep] Select disable or enable from drop-down list. If select “enable”, when there is an alarm, system will make beep voice.

[Time Format] Select time format from the drop-list. After you change the format it will affect the OSD format, information in information display panel and file lists.

[Default Camera type] Set the default mode of video from PAL and NTSC.

3.1.2 Network setup

[Remote Connection] Select using network or not. If select “disable”, it will not permit any client connect this DVR system;

[Remote Connect Port] Select remote connection port for Clients.

[Remote buffer Priority] There are three items selected. “smooth” demands the system have large buffer. “realtime” demands there have enough bandwidth. Otherwise, the data off and on when it is sent from the network.

[Automatic Alarm Notification client IP] Assign a network client to receive alarm message when there is an alarm. The alarm channel image will auto display in the client software. But user must be sure that client is running on that IP address.

Note:

Alarm auto connection to IP is used to input alarm automatically. When sensor, normal or motion record is set to input and there is IP address, the system will check if the client has connected with this system. If there is no connection, the system will try to connect with it through Port 5300(preset). While it cannot be connected, the system will keep trying till the connection is OK. So please ensure that your client's program is in use, Port 5300 is listening and the network is in good condition. If not so, the system will not be stable.

[Alarm Send Port] This is the alarm message connecting port, which is used to send alarm from DVR Server to Client.

[Web Server Port] The [IE client](#) connecting port. Default value is 80 for http access; but for some windows XP edition, it shields “80” port. In this case, user should modify this port to other port, such as 1280. After that, user must reboot DVR server, then user can access DVR server via IE Client like this: http://IP: 1280 (IP can be a static IP or dynamic domain name).

[Use DNS] Select use DNS or not, support dynamic IP.

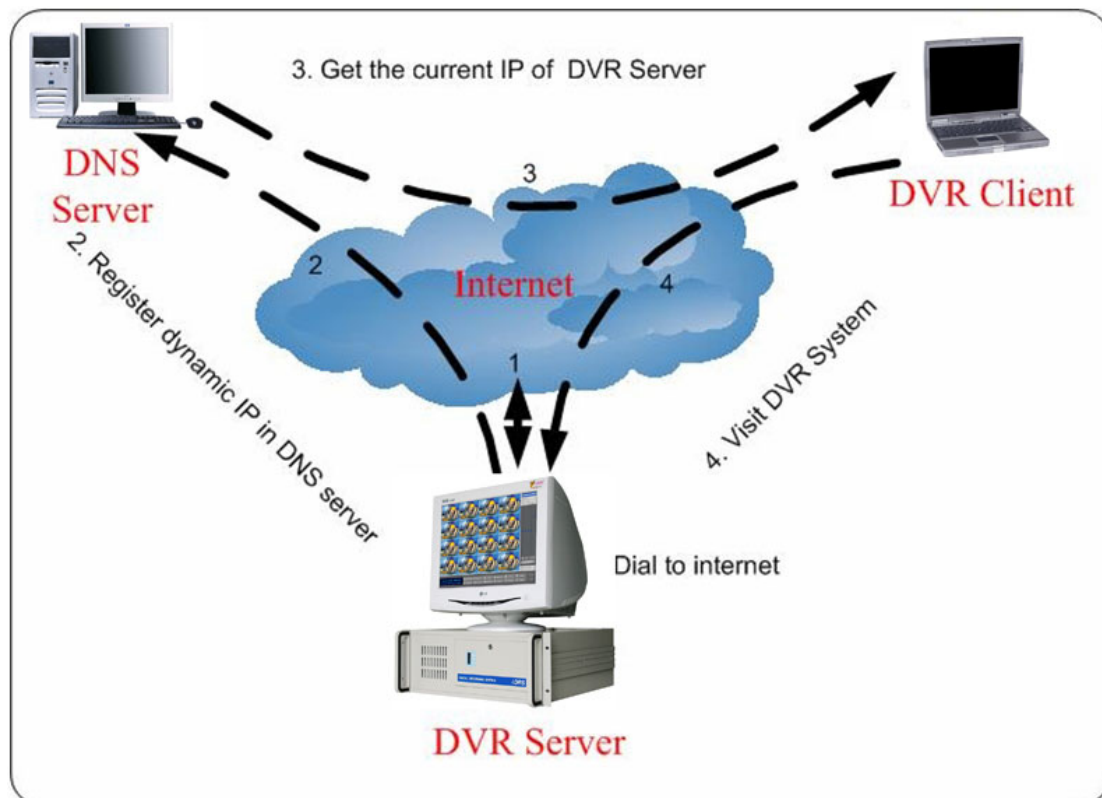
[Local Host Name] Input the name description for DNS Server identification.

[DNS Server IP] DNS server host IP.

[DNS Connection Port] DNS server host port , it is used to connect DNS server.

DNS server work mode:

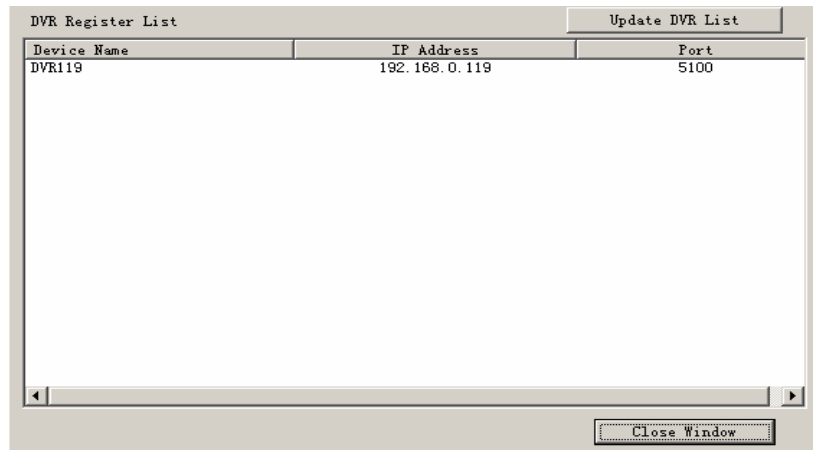
If it is require, please get DNS server software from developer.



1. If your DVR is dynamic IP, you should set your DVR system as follow:

Use DNS	<input type="text" value="Enable"/>	Local Host Name	<input type="text" value="DVR.office"/>
DNS Server IP	<input type="text" value="192.168.0.21"/>	Connect Port	<input type="text" value="7,100"/>
		Connect Interval Time	<input type="text" value="60 sec"/>

2. DNS server will get domain name and current IP of your DVR, NVR Client can connect DVR server through this domain name.



3. NVR Clients get IP of DVR through DNS server according to its domain.

4. NVR Clients visit DVR through the IP that get from DNS server.

[Interval Connection Time] Set the interval time to connect DNS automatically.

[Permit Max Connect Video Num] The maximum number of video that permit to the client to connect the DVR server. The number can select according to the network bandwidth. The maximum is 256. For example: one DVR server own 2Mbit network bandwidth, if all video channel compress base on CIF resolution (max data bit rate is 500Kb). To get better video effect, we can set 4 as the permit max connect video number;

3.1.3 Boot setup

[Exit to Windows] User can exit program and back to windows desktop.

[Exit and Shutdown] User can exit program and shut down computer.

[Auto Shut Down] Set the time to shut down the computer.

[Auto Reboot Date(Mon-Sun)] Select auto reboot date.

[Reboot at] Set auto-reboot time.

3.2 Camera setup

3.2.1 Camera setup

[Selected Camera] To set the parameters for a camera, select the camera from the drop-down list. The cameras you can select are only the cameras of the local board card, IP Cameras are not included. For IP Camera, you should set it remotely in [IP Camera setup](#).

[Camera Description] Input the description for easy identification. OSD text can support any language, it can put any language in camera description edit then press the button to set proper color (it do not support white).

[Camera Type] Select camera type from drop-down list. Users can choose from PAL and NTSC.

[Camera] Enable or disable selected camera.

[Remote Frame Rate(fps)] Set the frame rate of the client.

[Bit Rate] Set recording mode. Variable Bit Rate (VBR) or Constant Bit Rate (CBR) Recording.

VBR allows each frame to be recorded at a dynamic bit rate depending on the image complexity, activity and color.

CBR allows each frame to be recorded at fixed bit rate, regardless the scene activity.

In many cases, this limits detail (resolution). The benefit of CBR is its ability to accurately estimate the total video capacity.

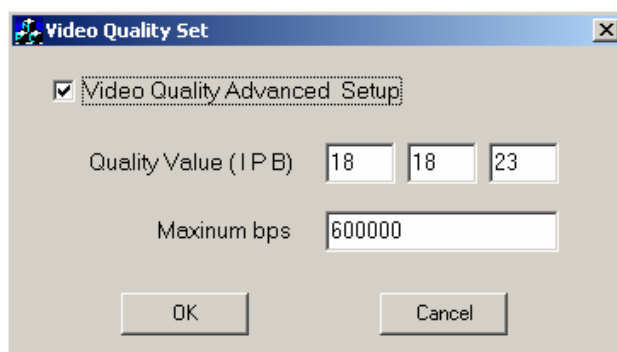
[Frame Rate(fps)] Set the recording rate for selected camera. For Frames per Second (fps), the frame rate should be from 1 to 30 fps. While image size is set "704*576", the frame rate should be set around 1 to 15 frame.

[Remote Image size] Select image resolution to be transmitted to clients. When you set the **[Image Size]** as 4CIF(704*576), this configuration is not available for HC series card, program will select it as CIF automatically because DVR board does not support dual stream when it records with 4CIF resolution.

[Image Quality] Sets the quality of the image to be recorded. Select from Poorest, Poor, and Medium, Very good and best.



Click this button to make advanced setup for video quality, you can set I B P frame and maximum bit rate.



Note:

If you don't familiar with those features, we advise you not to revise them

Recommend setup:

For CIF:

Image	I frame	P frame	B frame	Max bps
Best	12	12	17	900000
Good	15	15	20	750000
Medium	18	18	23	600000
Low	21	21	26	450000
Lowest	24	24	29	300000

For DCIF: $\text{Maxbps} = (\text{Maxbps}/3) \times 5$ Note: **Maxbps** is the CIF's value with the same configuration (I P B)

For D1: $\text{Maxbps} = (\text{Maxbps}/3)*8$ Note: **Maxbps** is the CIF's value with the same configuration (I P B)

[Alarm Adjust fps] Select enable or disable, If select "enable", when alarm occurred, the camera will record with real-time frame rate(25fps or 30fps), even though **[Frame Rate(fps)]** has been set other values(eg:5fps).

[Remote Quality] Set the image quality of the clients to be recorded from Poorest, Poor, Medium, Very good and Best.



Click this button, users can make advanced setup for video quality of client end, also can setup I B P frame and adjust maximum bit rate according to the network bandwidth.

[Image Size] Set the resolution for local record. There is an item "704*576(12fps)", each channel can be set "704*576", but not real time, system will select frame rate automatically around to 12-15fps. To get best effect, you should set the resolution of local record according to your CPU configuration. There is a referenced configuration sample as below:

Computer configuration:

CPU: Intel Pentium 4 2.4GHz
Motherboard: ECS 848P-A
Graphic Card: ATI 9550 128MB,
Memory: 512MB
HDD: 120G (IDE)

Recommended resolution configuration for different channels:

DVR Board Channels	Recommended Resolution	Remark
64	CIF	Continuous recording is not recommended
48	CIF	
40	DCIF	
	CIF	
32	DCIF	
	CIF	
24	DCIF	
	CIF	
Less or Equal to 16	4CIF	
	DCIF	
	CIF	

[OSD Date] Select whether display the OSD date on the screen or not. When you select "Not", the date will not display on the screen of corresponding channel.

[Masking Bitmap File] Watermark function ,the logo picture must be edited ad 128*128 pixels file size and saved as bmp format.

[Record Days] This section allows users to determine how long the record data of each camera should be kept by the system. The maximum duration for on-line storage is 120 days. Users can select exact number of days, or can select “auto” mode. If select “auto”, system will auto-delete the recorded data of the earliest days when there is no enough space.

NOTE:

If there is no enough space of HDD, system will delete the record data according to the length of saving time of each camera. E.g.: there are four cameras, the 1st camera save 2 days, the 2nd camera save 5 days, the 3rd camera save 10 days, and the 4th camera we will set “auto” mode. If there is enough space, the 4th camera's record data will save in HDD, while there are no enough space, system will delete data automatically. If the 4th camera's record data has been saved more than 10days, system will delete the 4th camera's data, if the 4th camera's record data has been saved less than 10 days, but the 3rd camera's data is more than 10 days, system will delete the 3rd camera's data. So, even if you set the 3rd camera's record data saving 10 days, the data that is saved less than 10 days become possible. System will delete the record data from the earliest date.

[OSD Contrast] Set OSD displaying brightness & position. An “auto” item in OSD Contrast's drop-down list will make OSD suit the background's color automatically.

[Copy Setup to] Set other cameras with the same setup.

Notes:

1. If less than 64 cameras are used, many of them can't provide pictures sometimes and an alarm will appear (beep to tell you some video information is missing). Set the camera with no picture disabled and the alarm will disappear. When you want to use them later, set as enabled again.
2. The unit of the swap file should be MB. The range is 2 to 50.
3. Set the position and contrast of the date shown on the screen. Sometimes the date cannot be clearly seen for its color is similar with the background. You can change its position or color when this happens.
4. Image size is the format used when recording. Remote image size is the format used when these images are transmitted to client sides.
5. Remote Frame Rate, Remote image size and Remote Quality are the parameters of the client side. ①When the server's image size is set as “704*576(12fps)”, these three items are no effect, and client's parameters will be same as server. ②When the server's

resolution is set as others (except "704*576(12fps)"), if Remote image size is set as "Same as Rec", Remote frame rate (fps) and Remote Quality are no effects, the client's parameters will be same as server.

6. Variable digital rate table

Image quality	Record Environment	Occupied Disk Space (/com/hour)
Poorest	low action, indoor	about 45Mb
	high action, road	about 95Mb
Medium	low action, indoor	about 70Mb
	high action, road	about 180Mb
Best	low action, indoor	about 160Mb
	high action, road	about 320Mb

Invariable digital rate can't improve image quality but it is helpful for calculating disk space. Variable digital rate recording is recommended.

3.2.2 Group setup

Note:

If you set a camera into several groups, only the last setup is available.

[Selected Group] Select group number.

[Swap File] Set recorded video file size saved in HDD. For easy backup, don't set too large file size. Up to 512M can be set, but 30M is recommended.

[Selected Cameras] Select the camera that have the same work mode with group. Cameras include local board card and IP module

[Pre-Event Record] Select the start time of record when there is an alarm. When DVR system is in Motion Detect mode or Sensor Detect mode, it can record video before the alarm is triggered.



[Post Record Time] Select the end time of record when there is an alarm. When the system is in Motion Detect mode or Sensor Detect mode, it can record video after the alarm end.

[Record Audio] Selects whether program record audio data or not, this setting is not available for IP Cameras, for stream type of IP Camera, you should set it remotely in [IP Camera setup](#).

Recording Schedule Setup: (setting for cameras of local board cards and IP Cameras.)



Tips:

One block of pane  means half an hour. Firstly click record mode icon , then click schedule diagram, hold down the mouse and move it to select large area (Drag & Drop).

- 1) Normal Record (Green): DVR System is always recording video. (e.g. Sun. Fri. Sat.)
- 2) Motion Detect (Blue): DVR System begins to record video only when it detect moving object. (E.g. Mon.) Click "Motion Detect" icon, then select your schedule time by drag & drop. For example, the above picture means: on Monday it is motion detect record, on Sunday it is normal record, but on TUE, WED and THU from 3:30 to 11:00 it is sensor record, from 14:00 to 22:30 it changes to both motion detect record mode and sensor detect record mode, other time is normal record.
- 3) Sensor Record (red): DVR System begins to record video only when there is a sensor alarm. (3:30 to 11:00 in Tue. Wed. Thu.)

Note:

The time setup must be correspond with Check Alarm setups in Sensor setup otherwise it can't work properly.

- 4) Motion or Sensor Record (yellow): Combine with above 2 and 3 function.
- 5) Not Record (gray): DVR System not record video

3.3 Sensor setup

Sensor Setup

Select Sensor: Sensor: Sensor Position:

Activate PTZ Preset: Play Alarm Sound: ...

Link to PTZ

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64

Group Setup

Selected Group: Sensor Type: Alarm Write Log:

Alarm Action After It Times-out: ☒ Stop Immediately ☐ Do Not Stop ☐ Wait Secs.Then Stop

Sensor Input:

Start Recording Cameras

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64

Trigger Output Relays:

☒ Check Sensor ☐ Check

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SUN																								
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								

3.3.1 Sensor setup

[Select Sensor] Select the sensor from the drop-down list in order to set the parameters for it.

[Sensor] Select this sensor port to use or not.

[Sensor Position] Enter the description for easy identification.

[Activate PTZ Preset] Select linkage of Speed Dome preset number. Speed Dome will move to this preset number automatically when there is an alarm. (Speed Dome installation needed).

[Play Alarm sound] Select a sound of wav for a sensor, if there is an alarm, the sound file will play.

[Link to PTZ] Select camera that is related to this sensor alarm.

3.3.2 Group setup

Sensor group setup is very similar to the group setup of camera recording.

[Selected Group] Select group number.

[Sensor Type] Select NC or NO alarm type.

[Alarm Write log] Select write alarm log or not.

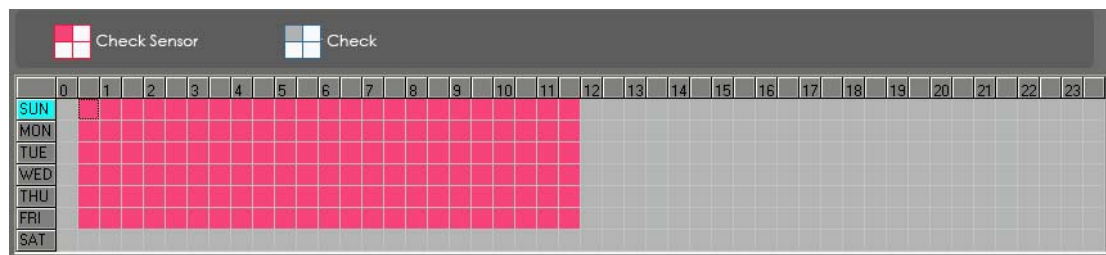
[Alarm Action After It Times-Out] Select system alarm linkage mode when an alarm stops. "Stop Immediately" means the system stop alarm immediately after the alarm driver stops an alarm. "Do Not Stop" means the system don't stop alarm after the alarm driver stops an alarm. "Wait" means the system will stop alarm at your setting time after the alarm driver stops an alarm.

[Sensor input] Add sensor to selected group.

[Start recording cameras] Set cameras that to be related to this sensor group. They will start recording and connect remote network client automatically when there is an alarm. The cameras just include the cameras of local board card; IP Cameras are not included. For IP Camera, you should set it remotely in [IP Camera setup](#).

[Trigger Output Relays] Add alarm devices (alarm out port) to this group such as siren, light. All connecting devices will send alarm message when there is an alarm.

Schedule Setup (Example for below figure)



1. Check Alarm (Red): DVR System responds with sensor during this time. (00:30 to 12:00 from Sun. to Sat.)

2. Not check (gray): DVR System not respond with sensor in this time.

Note:

If you set a camera in several groups, only the last setup is available.

3.4 PTZ & Linkage setup

The screenshot shows a software interface for configuring PTZ and alarm settings. It is divided into two main sections: 'PTZ Protocol Setup' and 'Camera Detection Relay Control/Remote Client Alert'.

PTZ Protocol Setup:

- Selected Camera:** Camera01 (dropdown)
- PTZ Port:** COM1 (dropdown)
- PTZ Protocol:** Pelco-D(H) (dropdown)
- PTZ Address:** 1 (dropdown)
- PTZ Baudrate:** 2400 (dropdown)
- PTZ Position:** Normal (dropdown)

Camera Detection Relay Control/Remote Client Alert:

- DO Port:** D001 (dropdown)
- DO Port Name:** DO-1 (text input)
- Camera Alarm Defected In:** Camera01 (dropdown)
- Send Alarm To Client:** Disable (dropdown)
- Motion Alarm Sound:** (audio selection) with a 'Test' button.
- Video Loss Alarm Sound:** (audio selection) with a 'Test' button.
- Trigger DO Output:** A row of buttons numbered 1 through 8.

At the bottom, there is a legend for alarm types: Motion&Video Loss (red square), Motion Alarm (blue square), Video Loss (orange square), and Not Check (grey square). Below the legend is a calendar grid showing days of the week (SUN to SAT) and a 24-hour timeline (0 to 23) for scheduling events.

3.4.1 PTZ protocol setup

[Selected Camera] Select the camera from the drop-down list to be set the parameters. The cameras just include the cameras of local board card; IP Cameras are not included. For IP Camera, you should set it remotely in [IP Camera setup](#).

[PTZ Port] Select PTZ connecting port, when you do not use PTZ port, please choose "-----".

[PTZ Protocol] Selects the PTZ protocol for the PTZ camera

[PTZ Address] Set the camera ID number of the PTZ camera being controlled.

Note:

The PTZ camera has a dipswitch to set the PTZ address. The PTZ camera ID number must be matched with the number of this dipswitch.

[PTZ Baud rate] Select PTZ Baud rate for the PTZ camera.

[PTZ Position] Select the installation mode of the PTZ according to its installation mode.

Notes:



1. PTZ position will influence PTZ control. E.g.: if you set it as obverse and press left, then it will turn left. If you set it as inverse and press left, then it will turn right.
2. If there is (H) after the PTZ protocol, it has the high speed of Preset function. If there is no (H), it only has ordinary functions.
3. The PTZ address will be sent as a message option. Take care that some address begins from 0. That is to say, when the address number is 1, the real address is 0. So we must set it according to their relations.



3.4.2 Motion detection relay & remote client alert

[DO Port][DO Port Name] Select a DO port and set its name to identify the various DO port. It will be shown as a tip when the mouse moves closely or above the DO button in DVR Server or NVR Client.

[Camera alarm detected In] Selects camera to be set from dropdown list

[Send Alarm to client] Select sending alarm to network clients or not

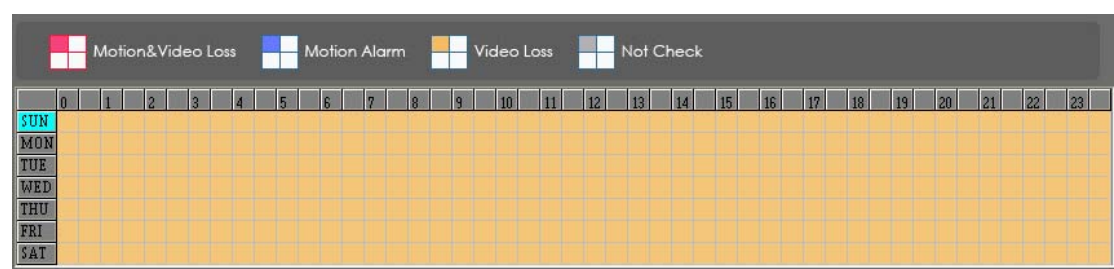
[Motion Alarm Sound] Press  button to selects a “.wav” sound File for a motion alarm. If there is a motion alarm, the sound file will be played. Also, you can test it by pressing  button.

[Video Loss Alarm Sound] Press  button to selects a “.wav” sound File for a video loss alarm. If there is a video loss alarm, the sound file will be played. Also, you can test it by pressing  button.

[Trigger DO Output] Selects which DO ports will be triggered by above camera alarms.

3.4.3 Schedule Setup

Setting for cameras of local board cards, IP Cameras are not included.



1) Motion & Video Loss (Red): DVR System responds with Motion Detection and Video

Loss alarm in specified time.

2) Motion Alarm (Blue): DVR System only responds with Motion Detection alarm in specified time.

3) Video Loss (Yellow): DVR System only responds with Video Loss alarm in specified time.

4) Not check (gray): DVR System not respond with any alarms in specified time.

Note:

Check Alarm Setup (including Motion & Video Loss, Motion Alarm and Video Loss) does not take affection to Motion Detect Record. It is only alarm setup. It takes affection to motion detect alarm out and motion detect alarm to network.

3.5 E-mail setup

Note:

Before you set the E-mail setup, you should pay attention to several points as below:

The alarm to trigger E-mail sending includes two types: Camera-related alarms (Motion detection alarm & Video loss alarm) and Sensor-related alarms.

For Camera-related alarms, you should set [Motion detection area & Cover setup](#) and to check alarm in [Motion detection relay & remote client alert](#). For Sensor-related alarms, you should set to check sensor and select cameras to be triggered in [Sensor setup](#).

When you enable system capture image as attachment of E-mail, the system will capture a still picture of camera for Camera-related alarms or related camera for Sensor-related alarms to be sent as an attachment with E-mail.

Smtp Setup

SMTP Server SMTP Port Auth.Type

Oogin User ID Login Pass

E-Mail Setup

Send To

Copy To

Sender E-Mail

E-Mail Title

E-Mail ScreenShot As Attachment

Send Notification from Cameras(Screen Shot From Alarm Camera)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64

Send Notification From Sensors(ScreenShot From Linked Camera)

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

3.5.1 SMTP setup

[SMTP Server] SMTP server address, e.g.: mail.jstDVR.com,

[SMTP Port] SMTP listen port for connect request of TCP.

[Auth. Type] Logon mailbox, operator will select SMTP authentic type. Or select “simple login”.

[Login User ID] User ID of mailbox

[Login Pass] Password of mailbox

After user setup finished, you can press to test the function.

3.5.2 E-Mail setup

[Send To] Set address of receiver.

[Copy To] Set another address of receiver to whom system sends E-mail.

[Sender Email] Enter email address of sender.

[Email Title] Enter title of the E-Mail to be sent.

[Email Screenshot As Attachment] When there is alarm, the system will grab picture, operator can select whether send the picture as attachment of the E-mail.

[Send Notification from Cameras (Screenshot From Alarm Camera)] Operator can select the cameras, which will trigger to send E-mail when they have alarms. The cameras you can select are only the cameras of the local board card, IP Cameras are not included.

[Send Notification from Sensors (Screenshot From Linked Camera)] Operator can select the sensor, which will trigger to send E-mail when they have alarms.

NOTE:

If send the grab picture as the attachment, you should check alarm of the camera or the sensor, and set “alarm send to network” to be enabled.

3.6 Digital matrix setup

The screenshot shows two configuration panels: 'Matrix Setup' and 'Display Setup'.

Matrix Setup:

- Matrix Group: SetGroup1
- Video Out Port: Video Out 01
- Video Out Standard: PAL
- Video Switch Interval(Sec): 3 sec
- Video View Mode: 1 View
- Video Window: Window1
- Display Video Cameras In Window: Main camera channel

Below these settings is a grid of 64 numbered buttons (1-64) representing video channels. Channel 1 is highlighted with a larger border.

Display Setup:

- Display Group: SetGroup1
- Video View Mode: 64 View
- Video Window: Window1







Below these settings is another grid of 64 numbered buttons (1-64) representing video channels.

3.6.1 Matrix setup

[Matrix Group] System operator can set a group of video images to be sent out through matrix decode card, each group has different display mode. Up to 16 groups you can set.

[Video Out Port] Select the output port of Matrix card that you want to set; the total number of channels is decided by Matrix Decoder card.

[Video Out Standard] Set Matrix video out standard, you can select from PAL and NTSC.

[Video View Mode] Select video output display mode, there are 1split , 2split , 4split , 9split , 13split  and 16 split .

[Video Window][Display Video Camera in window] After selecting video split mode, there will have corresponding display video window, select one camera or several cameras to show in the window. For IP cameras, system use hard decoding, total channels of them are influenced by decoding channels. For different work mode (set in [IP Camera list](#)), the channels you can used is different, the available certain channels must be the first certain channels.

Note:

One camera is only showed in one window once.

[Video Switch Interval (sec)] Set intervals that each window shows cameras circularly when there have more than one camera in it.

3.6.2 Display setup


[Display Group] System operator can set a group of cameras to display for fast preview, including its display mode and cameras. Up to 16 groups can be set.


[Video View Mode] Set the split mode, the split mode is same as main window's display split mode. There are 1, 4, 9, 13, 16, 20, 25, 28, 33, 36, 40, 49 and 64 partition mode.


[Video Window][Display Camera in the window] After selecting video split mode, there will have corresponding windows, select one camera show in per window. The cameras include 64 cameras (the biggest of the system limitation), when the total channels (cameras of local board card and IP Cameras) are less than 64, some channels do not have image with black window.


Note:

One camera is only showed in one window once, but each camera can display any window discretionarily. E.g.: The 1st camera has been displayed in window1, and the 2nd camera has been displayed in window2. When change the 1st camera to be displayed in window2, the 2nd camera will be exchanged in window 1 automatically.

[New User] Press  button to edit the user you want to add in the **[User Name]** blank. Input User Name, Note Name, Password, and Confirm Password. Select Manage Right (Administrator or Operator), and then click Add User to save.

[Add User] Up to 15 users can be added to system except Admin. Click  icon to add new user you edited to user list.

[Modify User] Select a user from user list, then click  button to modify it.

[Delete User] Select a user from user list, then click  button to delete it.

3.7.2 User right setup

[Select setup items] Select an item from the drop-list and then choose the cameras for the users. These items include [Camera View Right], [Camera Playback Right], [Camera Audio Right], [PTZ Control Right].

[Camera View Right] Select cameras can be viewed by the user you are setting. The cameras you can select include the cameras of local board card and IP Cameras. By default, every user is granted to access all live images. To deny access, you can click the desired cameras button and the color will change from blue to gray (by default, user "admin" is super user, you can't modify its rights, it has entries rights).

[Camera Playback Right] Select the cameras can be play backed by the user you are setting. The cameras you can select include the cameras of local board card and IP Cameras. By default, every user is granted to playback video data of all cameras. To deny access, you can click the desired camera button and the color will change from blue to gray.

[Camera Audio Right] Select cameras whose audio can be heard by the use you are setting. The cameras you can select include the cameras of local board card and IP Cameras. By default, every user is granted to check audio of all cameras. To deny access, you can click the desired camera button and the color will change from blue to gray.

[PTZ Control Right] Select the cameras that related PTZ can be controlled by the user you are setting. The cameras you can select include the cameras of local board card and IP Cameras.

[Operation Right] Select operational tasks, granting or denying rights. Operational tasks are normally reserved for administrative, privileged accounts. Operators are rarely granted rights to adjust camera color, exit program, explore files etc.

User Access Rights	<input checked="" type="checkbox"/> Matrix Control	<input checked="" type="checkbox"/> Color Adjust	<input checked="" type="checkbox"/> Modify Network	<input checked="" type="checkbox"/> Delete File In Search
	<input checked="" type="checkbox"/> Search Log	<input checked="" type="checkbox"/> Open Map	<input checked="" type="checkbox"/> Motion Setup	<input checked="" type="checkbox"/> Minimum
	<input checked="" type="checkbox"/> DVE Board Setup	<input checked="" type="checkbox"/> DO Control	<input checked="" type="checkbox"/> Exit Program	<input checked="" type="checkbox"/> Explorer¶ backup

[Setup Right] Select setup rights to grant or deny user privileges.

Setup Right	<input checked="" type="checkbox"/> System Setup	<input checked="" type="checkbox"/> Camera Setup	<input checked="" type="checkbox"/> Sensor Setup	<input checked="" type="checkbox"/> PTZ&Linkage
	<input checked="" type="checkbox"/> Email Setup	<input checked="" type="checkbox"/> Matrix Setup		

Chapter 4 IP Camera Setup

Note:

For IP camera setup, its alarm and related setup is only be available when you set remotely, the Local setup of PC DVR is not available for IP Cameras except Recording Schedule in [Camera Setup](#)

4.1 Functional buttons

There are 5 buttons in each page. They are Upgrade, Restart, Time adjustment, Save and Exit.

A rectangular button with the text "Upgrade" in a light gray font.

The system can upgrade to the server remote. Click this button, and select the right file.

A rectangular button with the text "Restart" in a light gray font.

Some setting will only come into effect after device reboots.

A rectangular button with the text "TimeAdjust" in a light gray font.

Adjust date and time of DVS or EMDVR. The new date and time will accordant with NVR client computer.

A rectangular button with the text "Save" in a light gray font.

After setup is finished, click this button to save the setup.

A rectangular button with the text "Exit" in a light gray font.

Exit setup.

Remote setup for DVS includes Server, Channel, PTZ, Sensor and Alarm.

4.2 Server setup

A rectangular button with the text "Sever" in a light gray font.

Press button to set server parameters remotely:

Server Name	Embedded Net DVS	User Name	admin
Server Ip	123.127.244.165	User Pass	*****
Port	8000	DNS Server Ip	0.0.0.0
Subnet Mask	255.255.255.248	Remote Manage Ip	0.0.0.0
Net Gate	123.127.244.161	Remote Manage Port	0
Net Cable Type	10M/100M(5 cable)	Physical Address	00:40:36:36:05:d6
Use Pppoe	<input type="checkbox"/>	Software Ver	2.0
Pppoe Login Name		Dsp Software Ver	4.0
Pppoe Login Pass		Hardware Ver	0.0
Pppoe Ip	0.0.0.0		
Serial NO	DS2CD812PF0020071023AAWR100027142WC		

In the server window, some blanks' background are gray. Those parameters are read from foreside server, you can't modify them. Other blanks whose background is white, you can set them remotely.

Server Name	Embedded Net DVS
-------------	------------------

Enter the name description for easy identification. This name delegates the foreside server. If use DNS to get IP, this name will be used.

Server Ip	123.127.244.165
Port	8000
Subnet Mask	255.255.255.248
Net Gate	123.127.244.161

IP configuration and related: These are network configuration; you can set LAN or Internet IP according to your need.

Use Pppoe	<input type="checkbox"/>
Pppoe Login Name	
Pppoe Login Pass	

Connection configuration and related parameter: If system uses PPPOE to connect with web, please select it and input the PPPOE login ID and password.

[User Pass] Set the user password of DVS remotely, after that operation you should change the **Login Pass** to corresponding value in [Add / Modify server](#). Otherwise, you can't connect the DVS correctly.

[DNS Server IP] If use DNS, input the DNS host IP address.

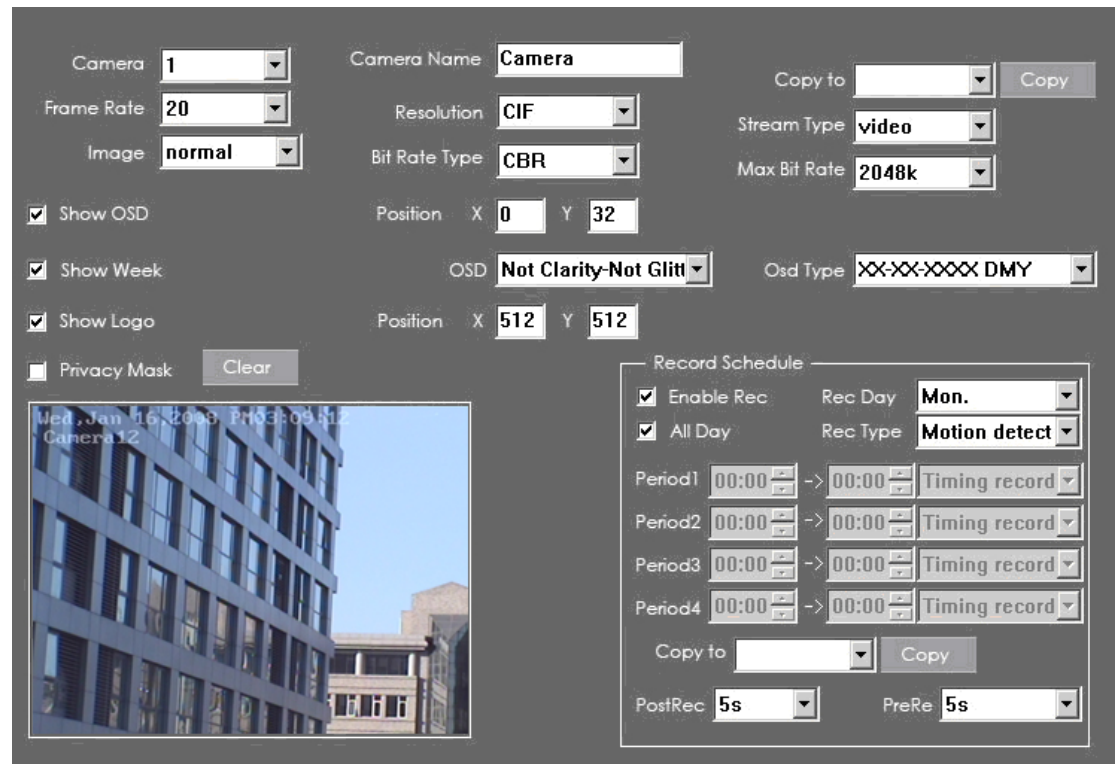
Remote Manage Ip	0.0.0.0
Remote Manage Port	0

Remote manage: Set the IP address and port of host server who will receive the message upload from

foreside server

4.3 Channel setup

Press  button to set channel parameters.



This section contains the parameters to designate a name for every camera connected, to enable or disable show LOGO and OSD, and to set display type of OSD & LOGO as well as record resolution, record type, record quality and frame rate, etc.

[Camera] Select the camera to be set from the drop- list.

[Camera Name] Enter a name description for easy identification.

[Frame Rate] Select the record rate of camera from drop-list.

[Resolution] Set the resolution at which the video files will be recorded. Choices are DCIF, CIF, QCIF, 2CIF and 4CIF, the higher resolution, the more disk space.

[Stream Type] Select video and audio or only video record.

[Image] Set the quality of the image to be recorded. Select from worst, worse, normal, good and best.

[Bit Rate Type] Select bit rate type from Variable Bit Rate (VBR) and Fixed Bit Rate (FBR) record:

VBR range= Poorest, Poor, Medium, Good, Best.

FBR range = 45 Megabytes/Hour to 400 Megabytes/Hour.

[Max Bit Rate] Select the maximum bit rate for Variable Bit Rate (VBR) record.

[Show LOGO/ OSD/ Week] If you check those boxes, system will show corresponding information on screen.


[Position] Set the position of OSD or Logo by entering the X and Y coordinate directly.

[OSD] Set the display attribute of the OSD & LOGO. There are four types display modes: Clarity-Glitter, Clarity-Not Glitter, Not Clarity-Glitter and Not Clarity-Not Glitter.

[OSD Type] Select the type of OSD for the Week.

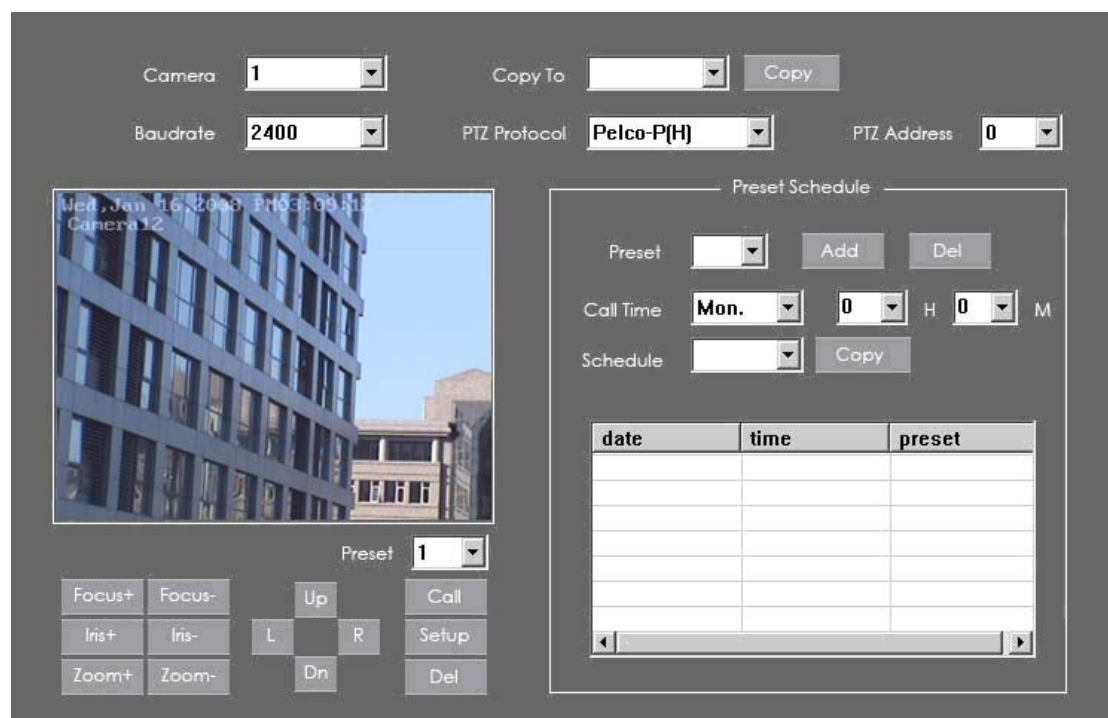
[Privacy Mask] You can check this box to set the privacy mask on the below image

directly, and you can clear some privacy masks by pressing  button.

[Copy to] After finishing one channel, if you want to set any other channels' configuration as the same as this camera, you can select channel number from drop-list, and press  button.

4.4 PTZ control

Press  button to set PTZ



The interface displays the following controls and information:

- Camera:** 1
- Copy To:** [Dropdown]
- Baudrate:** 2400
- PTZ Protocol:** Pelco-P(H)
- PTZ Address:** 0
- Copy:** [Button]
- Live Video Feed:** Shows a building with the text "Wed, Jan 16, 2013 PM 03:05:11" and "Camera 12".
- Preset:** 1
- Focus/Zoom Controls:** Focus+, Focus-, Iris+, Iris-, Zoom+, Zoom-, L, R, Up, Dn, Call, Setup, Del.
- Preset Schedule:**
 - Preset:** [Dropdown]
 - Add:** [Button]
 - Del:** [Button]
 - Call Time:** Mon. 0 H 0 M
 - Schedule:** [Dropdown]
 - Copy:** [Button]
- Preset Schedule Table:**

date	time	preset

In this screen, you can define the PTZ protocol and set the Preset Position as well as the plan to execute them automatically.

[Camera] Select the camera to be set from the drop- list.

[Baud rate] Set baud rate according to PTZ protocol from the drop- list.

[PTZ Protocol] Select the communication protocol for the PTZ camera from drop-list.

[PTZ Address] Set the address of the decoder, which must be matched with the value of dipswitch in the PTZ.

[Preset position & schedule setup] Define preset position and set time to call preset position automatically. System can add and delete plan time.

The interface is divided into two main sections. The top section is for Preset 1, featuring a grid of buttons for camera controls: Focus+, Focus-, Iris+, Iris-, Zoom+, Zoom-, Up, L, R, Dn, Call, Setup, and Del. The bottom section, titled 'Preset Schedule', contains a Preset dropdown menu, Add and Del buttons, Call Time (Mon., 0 H, 0 M), a Schedule dropdown, and a Copy button. Below these controls is a table with three columns: date, time, and preset.

date	time	preset

[Copy to] After finishing one channel, if you want to set any other channels' configuration as the same as this camera, you can select channel number from drop-list,

and press  button.

4.5 Sensor setup

Press  button to set sensor parameters.

The screenshot shows a configuration window for a sensor. At the top, there are fields for 'Sensor NO' (set to 1), 'Sensor Name' (set to 1111), 'Copy to' (empty), and 'Type' (set to N/O). A 'Copy' button is next to the 'Copy to' field. Below these are two main sections: 'Policy' and 'Schedule'. The 'Policy' section has a 'Sensor Alarm Handling' checkbox and a 'Policy' group box containing four checkboxes: 'On screen warning', 'Audible warning', 'Upload to center', and 'Trigger alarm out'. Below the policy group is a 'Trigger Rec Camera' section with a 4x4 grid of checkboxes numbered 1 to 16. The 'Schedule' section has a 'Preset' group box with a 'Use' checkbox, a 'Camera' dropdown, and a 'Preset' dropdown. Below this is a 'Schedule' group box with a 'Day' dropdown, four 'Period' rows (Period1 to Period4), each with two time pickers and a right-pointing arrow, and a 'Copy to' dropdown with a 'Copy' button.

[Sensor NO] Select one sensor to be set.

[Sensor Name] Enter the name description of the sensor.

[Type] Select alarm type (sensor type) from “NO” (Normally Open) or “NC” (Normally Close)

[Policy] Selecting “Sensor Alarm Handling” firstly, handling policies will be available as follows:

Audible warning—Indicate the alarm with voice.

Upload to DVR server—Update the alarm information to center.

Trigger alarm out—Trigger alarm box to output the alarm.

[Trigger record camera] Set cameras to record triggered by the alarm. You can select one or more channels. When there is alarm input, the cameras will be triggered to record (the record type of the channel is Alarm Record), and the monitor will switch to preview the cameras (warning on monitor is enable).

[Preset] Set camera that will move to its one preset position when the alarm happened.

[Schedule] Set alarm input precaution time firstly, then set time segment according to the sequence. The time of each segment should not overlap the others and no skips are allowed. After the precaution time of a certain day is set, you can copy the parameter to other dates by select a day and press copy button.

Schedule

Day

Period1 00:00 → 00:00

Period2 00:00 → 00:00

Period3 00:00 → 00:00

Period4 00:00 → 00:00

Copy to

[Copy to] After finishing one channel, if you want to set any other channels' configuration as the same as this camera, you can select channel number from drop-list, and press button.


4.6 Alarm setup

Press button to set alarm parameters.

Camera Copy to

Alarm Type Level

☐ Handling Current Alarm



Policy

☒ On screen warning

☒ Audible warning

☒ Upload to center

☒ Trigger alarm out

☒ 1 ☐ 2 ☐ 3 ☐ 4

Trigger Rec Camera

☒ 1 ☐ 5 ☐ 9 ☐ 13

☐ 2 ☐ 6 ☐ 10 ☐ 14

☐ 3 ☐ 7 ☐ 11 ☐ 15

☐ 4 ☐ 8 ☐ 12 ☐ 16

Schedule

Day

Period1 00:00 → 00:00

Period2 00:00 → 00:00

Period3 00:00 → 00:00

Period4 00:00 → 00:00

Copy to

[Camera] Select a camera to be set from the drop-list and you can copy the configuration to the other cameras by clicking copy button.

[Alarm Type] Select alarm type: Motion detection, Tempering alarm and Video Loss.

[Level] Select sensibility levels from 0 (the lowest level) to 5 (the highest level) for the alarm

[Set motion detection areas] Left-click mouse and drag it on the screen to select motion detect area, you can select the whole area or many areas. Also, you can clear one or whole area by press the button clear and test the effect by clicking test button.

[Policy] Selecting "Handling current alarm" firstly, handling policies will be available as follows:


Audible warning—Indicate the alarm with voice.

Upload to DVR server—Update the alarm information to center.

Trigger alarm out—Trigger alarm box to output the alarm.


[Trigger record camera] Set cameras to record triggered by the alarm. You can select one or more channels. When there is alarm input, the cameras will be triggered to record (the record type of the channel is Alarm Record), and the monitor will switch to preview the cameras (warning on monitor is enable).

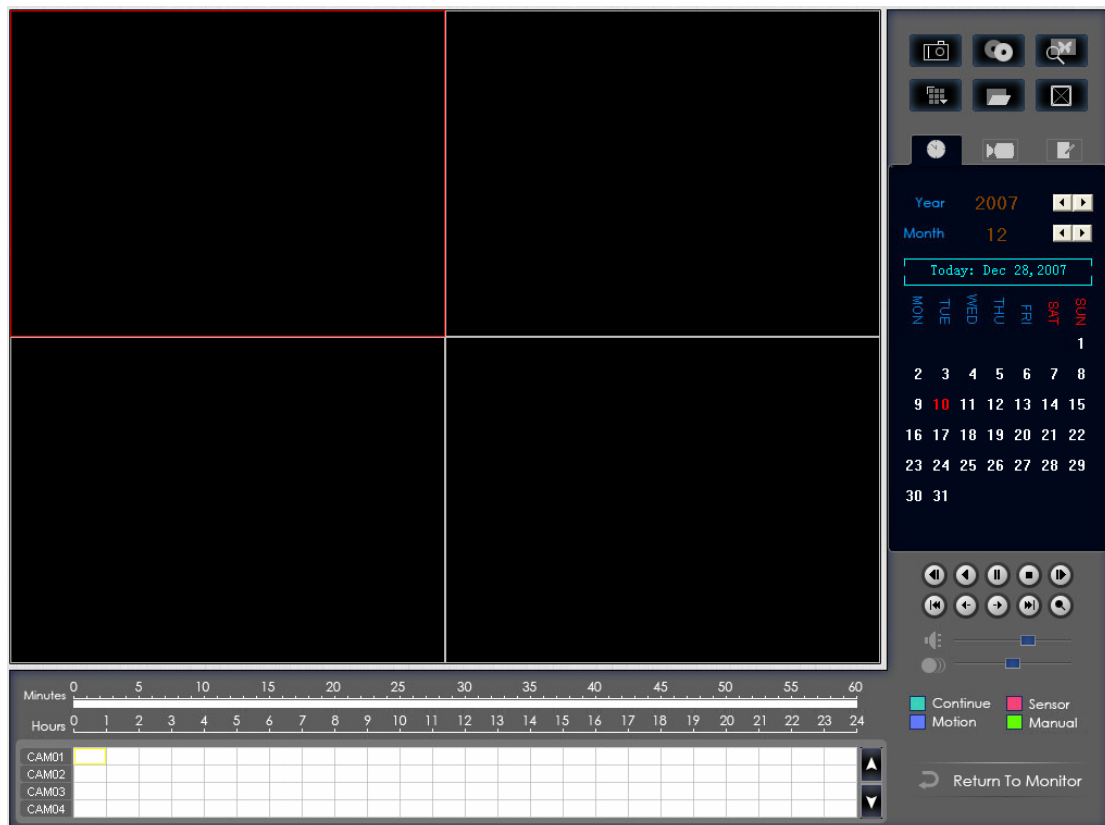
[Schedule] Set alarm input precaution time. Select date firstly, then set time segment according to the sequence. The time of each segment should not overlap the others and no skips are allowed. After the precaution time of a certain day is set, you can copy the parameter to other dates by select a day and press copy button.

[Copy to] After finishing one channel, if you want to set any other channels' configuration as the same as this camera, you can select channel number from drop-list, and press  button.

Chapter 5 Playback

5.1 Main interface


Click  button in main interface to enter playback interface.





5.2 Select playback channel



5.2.1 Select date

Select one window (the 1st one in default), and then click  button to show the date.

The blue dates contain recorded data. The green date is the current date. The gray dates signify no data. Only those blue ones can be selected and when they are selected the camera window will appear automatically to show which cameras has record data.

Click  or  to change month and year of search data.

5.2.2 Select camera


After selecting date system will show the camera state of corresponding day, or click



button directly to show the cameras state of current day. The number button with navy blue means this channel has record data. By pressing it directly on the numerical panel, DVR system will play back recorded data from the first file.

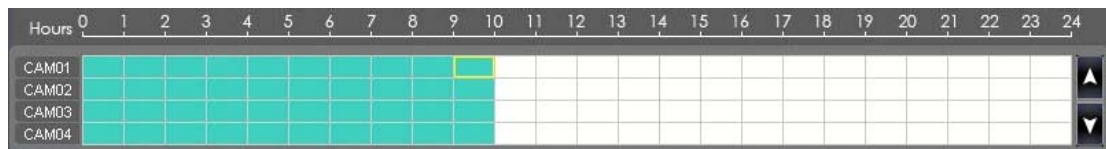
5.2.3 Select file



PM02:21:02-PM02:24:38
PM02:41:41-PM02:42:32
PM03:13:24-PM03:16:52

After selecting the camera to play user can click  button to show all the files of this camera.

In default, system will play back video file from the first one. In this screen you can change the file you want to play by clicking it directly.

The camera list below the window will show the recorded data of the day you select. Double clicking one hour of that day, system will play back data from the beginning of the hour via the window you select.



Press  or  button to see the recorded data of other cameras,



Click any minute of that hour, immediately, the system will turn to play back that time via the window you select.

The red bar of the minutes' list and hour list means the exact time which system is playing back now.

Tips:

Right click the picture to perform digital zoom function.

Different color will show information of all cameras.

You can see all kinds of record, their time and length according to recorded data.

5.3 Play file and related operations



Press this button to set partition mode of Window, There are 1, 4, 9 and 16 splits.

To reduce the load of CPU and get best effect, you should select the partition mode according to the record channels amount and resolution. There is a referenced configuration sample as below:

Computer configuration:

CPU: Intel Pentium 4 2.4GHz

Motherboard: ECS 848P-A

Graphic Card: ATI 9550 128MB

Memory: 512MB

HDD: 120G (IDE)

Recommended channel configuration for playback:



DVR Board Channels	Record Resolution	Recommended Playback Channels
64	CIF	4
48	CIF	4
40	DCIF	4
	CIF	4
32	DCIF	4
	CIF	9
24	DCIF	9
	CIF	16
Less or Equal to 16	4CIF	4
	DCIF	9
	CIF	16








Press this button to open all playback windows in sequence according to the order of the cameras.





Press this button to close all playback windows.


 /  Previous / Next frame: press this two buttons to look previous or next frame.


 Reverse play: press this button continuously to play video reversely, the speed is determined by the following playing speed adjustment bar.


 Play/Pause: This button will alternate between Play and Pause. When it is playing, it will show  and press it to stop, and then the button will show . When you select reverse playing, it will show  to play by pressing it.

 Stop: press this button to stop playing.

 First frame of that day, previous minute, Next minute and last frame of that day

 Image zooms out. Press this button, Left-Single-Click an image; quarter of the image will be enlarged. Right-Single-Click the image again, it will resume the normal.


 Adjust the voice: drag the bar to adjust the voice and click the left button to clear the voice.

 Adjust playing speed: drag the bar to adjust the playing speed and click the left button to resume normal playing speed.

Note:

It is not suggested that multi-channel (more than 10 channels) record or playback coinstantaneous unless the PC has an advanced configuration, because the data throughput of HDD is huge in that case. Multi-channel search in client and server are the same except their paths. In client, they are in local; in remote search, it searches among the record data in server in the local network.

5.4 Capture picture


Click capture button  to capture a still picture. When one picture is captured, there will be a dialog to ask a file name. After your confirmation, you will be asked to input the

save path.

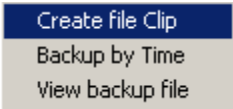
Note:

The size of the image is that of the playing window.

5.5 Create clip file

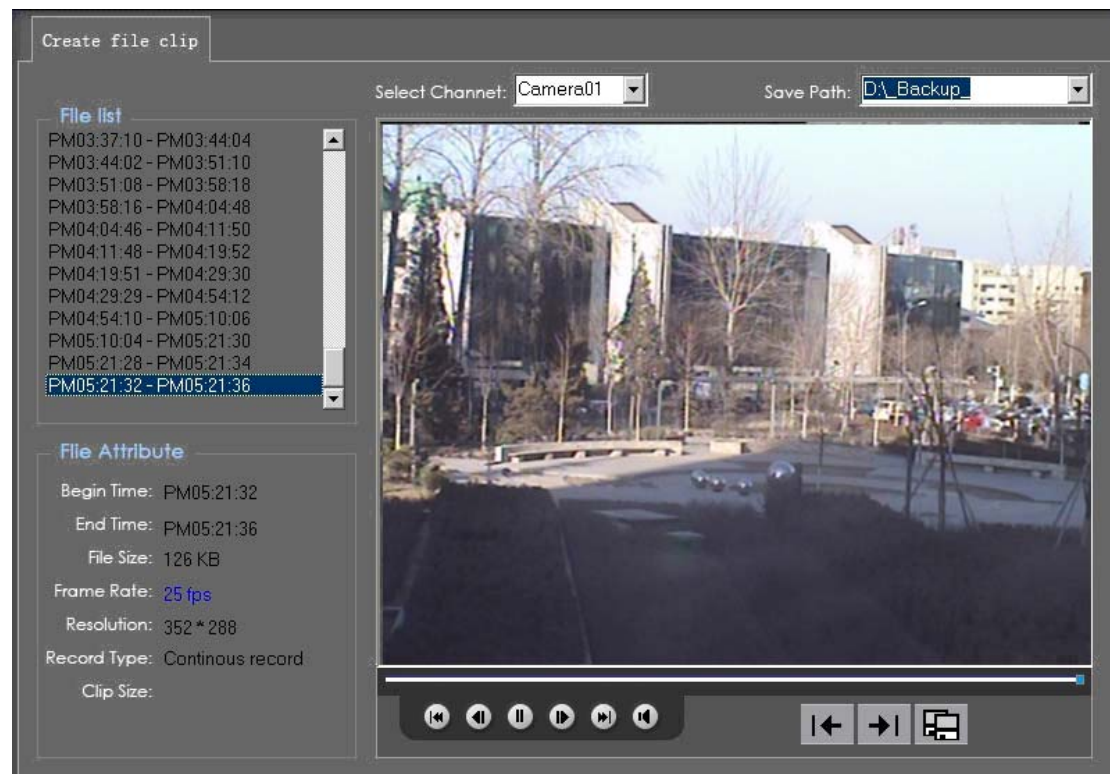
Click button , there are three items to be selected as below.

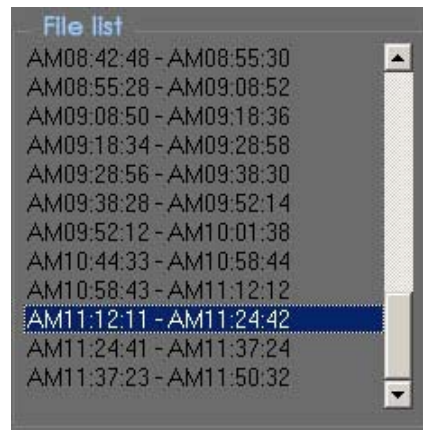
5.5.1 Create file clip


Press  to create file clip.



[Select channel and save path] Select channel and save path of the backup file on the top of interface.


[File list and attribute] Select a file and double-click it to play and its attribute will display below the list, including begin time, end time, file size, resolution, frame rate etc.





[Play control button] User can press and drag slider on  to control the player time.

[Beginning and stop position setup] After you select a time, press  button to set it as the beginning time, and then drag the bar to select another time and press  button to set it as the end time. When you finished, the file attribute on the left will show the size of the file to be created.

[Save file] After you set the beginning and end time press  button to save the file, and it will ask for the file name named by you.

[Voice control] Click  to control voice, press it to clear voice.

5.5.2 Backup by time:

Press  to enter backup by time feature.

[Backup Path] Select path for the backup file, User can backup record file to CD.

[Backup Camera] Select the backup camera. User can select more than one camera at one time.

[Select begin time] [Select end time] Select the beginning time and end time of the file to backup.

It can backup the data feature and remove file unite function when backup, so that backup procedure is faster.

You can check the file's value by pressing  button to show its total value.

[Backup Date Size] Show the size of the backup file. If user backup recording file to CD directly, the date size should not more than 650M.

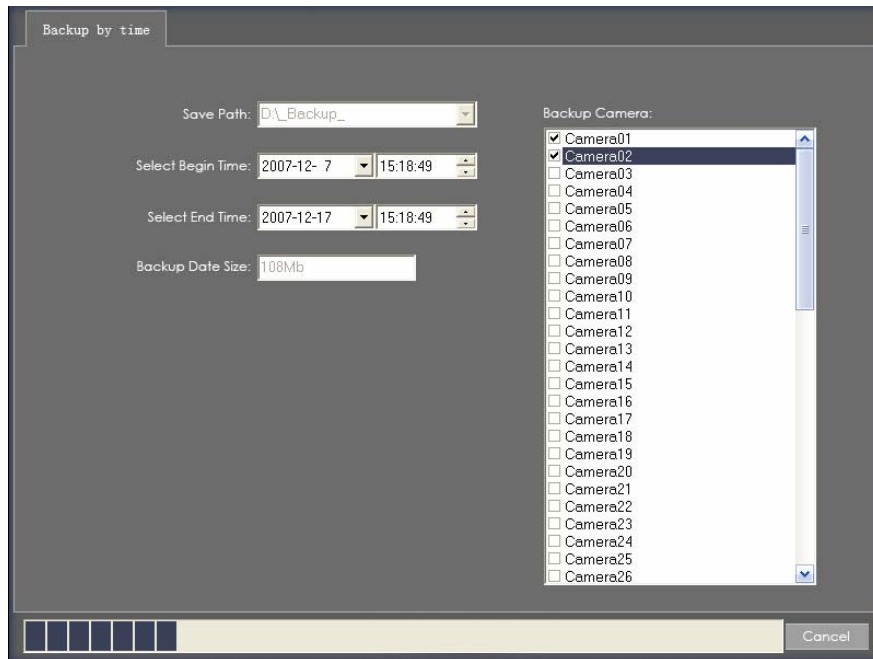
NOTE:

If user backup recording file to CD directly, the system disk volume's(C volume in general) free space should not less than twice of the backup date size. Because system volume will be used buffer area when burn CD. For example, if the backup date size is 450M, so, the system volume's free space should more than 900M.

The process of burning CD:

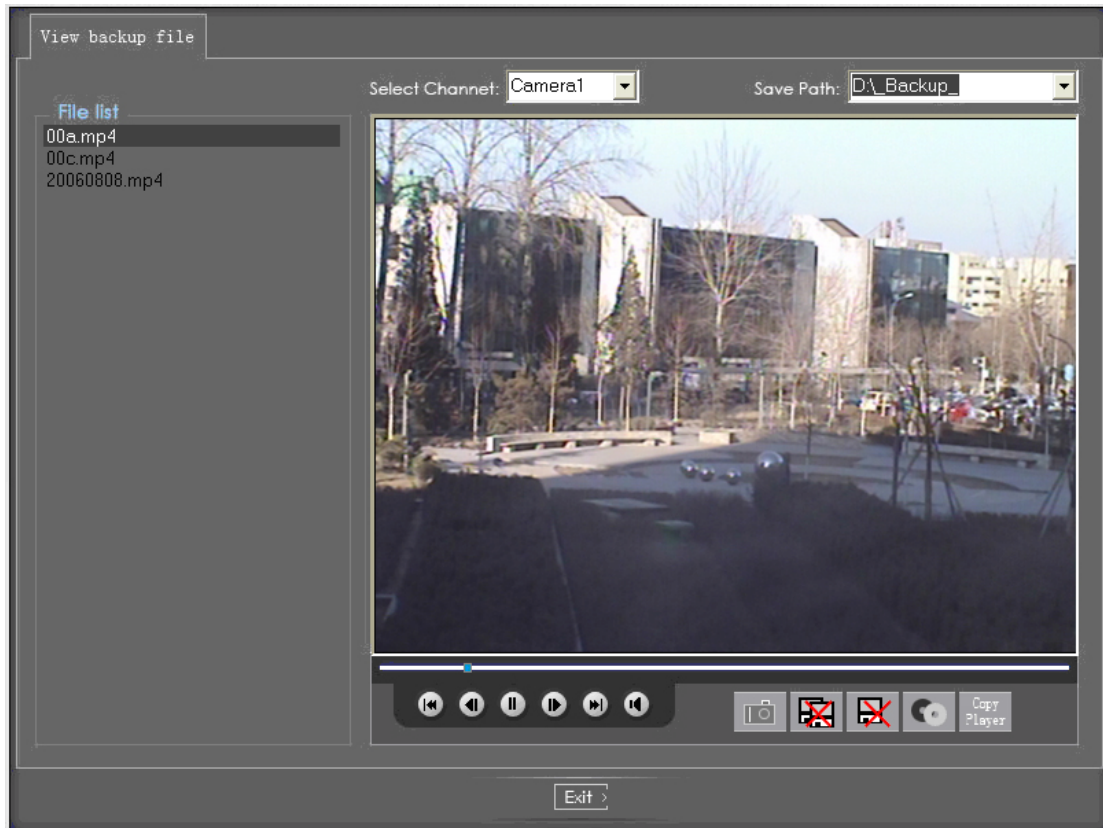
1. Select the CD-ROM as backup path, and select the camera and time.

2. Check the backup file value.
3. Backup the file to the temporary file in the last volume if there have enough free space. Otherwise, write backup file to the last second volume.
4. Write data to buffer
5. Write CD.



6. Delete buffer and temporary file.


5.5.3 View Backup file




[Select channel and path] Select channel and path of the backup file in local disk on the top of interface. The file in this path will show in file list in the left of interface.

[Play file and related operations] The most operations in this interface are same as Create file clip in [Create clip file](#) it adds any other functions as follow:

① Delete file

Press  button to delete current file.

Press  button to delete all files in the file list.

② Burn CD

Press  button to burn CD

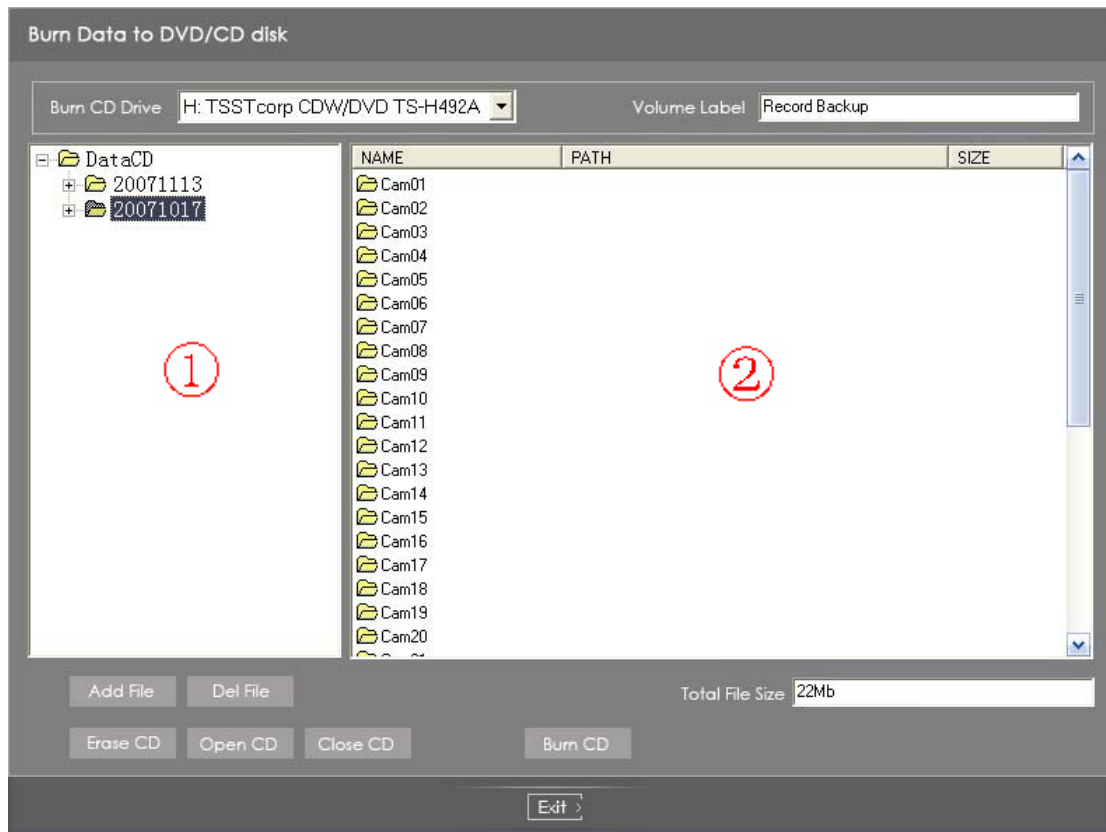


Figure 5— 1

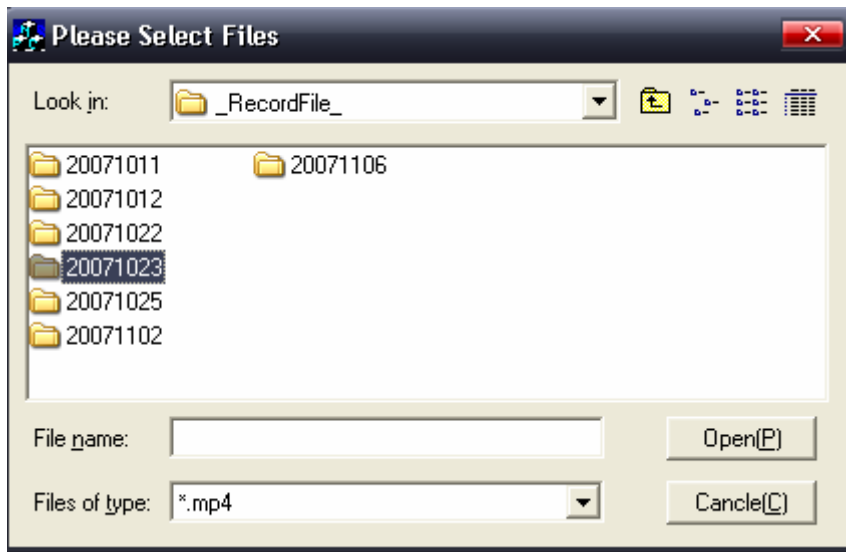
Area ①: File List.

Area ②: The File directory and list of will be burned to CD.

Burn CD Drive H: TSSTcorp CDW/DVD TS-H492A File directory

Volume Label Record Backup Create a new directory in area ②

Add File Add selected file from area ① to area ②, as below:



You can select the document or file need to be added, then click “Open” button, the selected document or file will be added in the file list at the area ①.

Del File

Delete the added files. Select some file in the document list at area ①, and then click this button, this selected file will be deleted from burned files (including the sub-file and all of documents)

Erase CD

Erase CD. If the Disk is erasable, the data of the disc can be deleted by clicking this button.

Open CD

Open the door of CD-Driver

Close CD

Close the door of CD-Driver

Burn CD

When you finish your setup, click this button to write file to CD

5.6 Search captured picture



Click to enter the search window (Figure 5— 2):

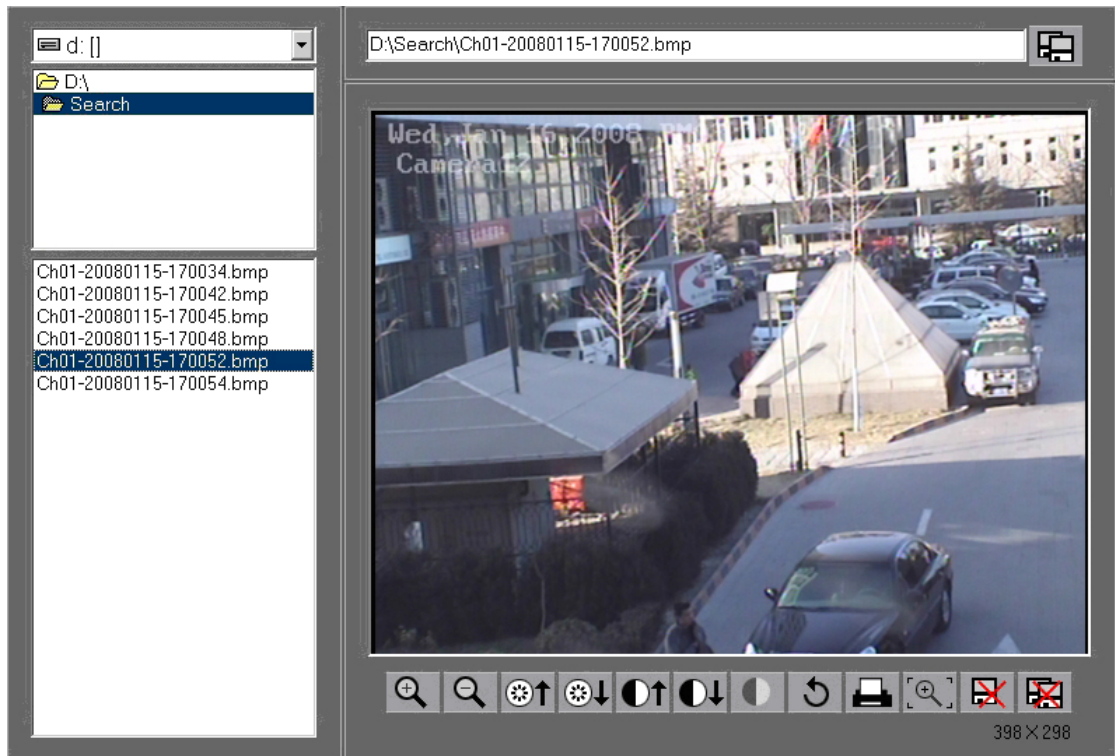


Figure 5— 2

1. Select pictures from directory and file list

You can select a captured picture from directory list (Figure 5— 3) and file list (Figure 5— 4) in local disk. By default, the directory is: System volume\Grab\Search. After you select the path the file name will show in the top of the window (Figure 5— 5).

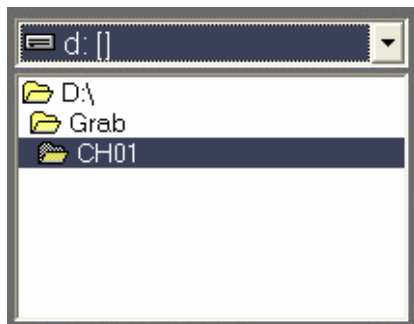


Figure 5— 3

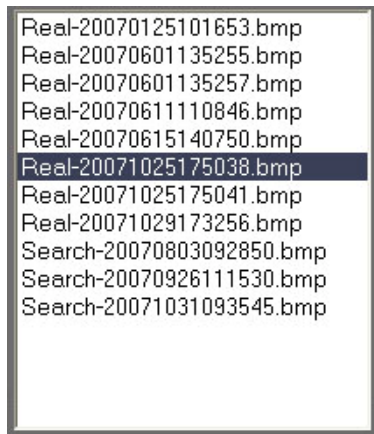


Figure 5— 4

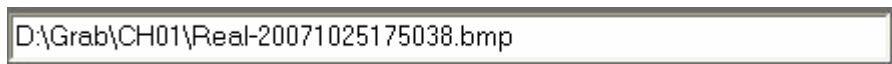









Figure 5— 5

Note:

Figure 5— 6 show name and path of current picture. If you want to save the reworked picture in another file, you can change its name and path here, with bmp and jpg as suffix.

Then click the button .

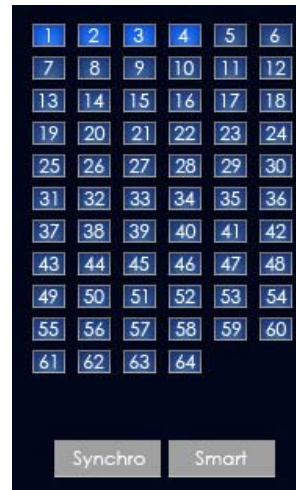
2. Related operations



- 1)  After you edit the picture you can save the picture in a save path as you like.
- 2)  Function buttons of picture disposal.
- 3)  When the result of disposal is not good click it to the default.
- 4)  Print picture, when the image is wider than 400 pixels, it will be printed smaller. On the other hand, it will be printed bigger.
- 5)  When it's bright, with the mouse moving, part of the picture will be enlarged.
- 6)  Delete current file.
- 7)  Delete all files.

5.7 Fast search


Click  button to show the date:

The green date is the current date. The gray dates signify no data. Only those blue and green ones can be selected and when they are selected the camera window will appear automatically to show which cameras has record data.



Click  or  to change month and year of search data.

5.8 Camera status

Click  button to show the cameras state. If the number is bright, it means there has record data in this channel.

5.8.1 Synchronic play

Click  button to synchronize all playback channels time.

5.8.2 Smart search


5.8.2.1 Function introduction:

This function allows users to draw a zone on a video image and do a search for any motions, missing objects, or unattended object events occurred in that zone. It can help you find recorded video you are interested.

Notice:

Smart Search accuracy is decided by sensitivity value in [Motion Setup](#)

5.8.2.2 Operation and example


Press  button, then select a search area, the system will play all motion

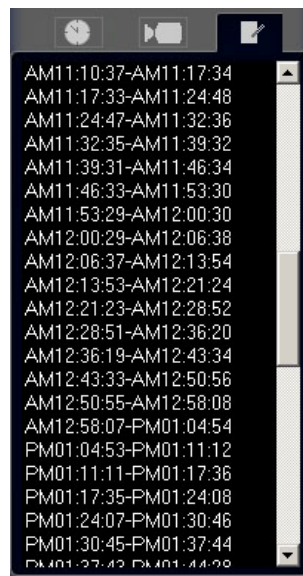
occurred within this area from previous 3 seconds to next 3 seconds when the motion occurred. Pressing this button again will end smart search.

Note:

1. Press synchronic button while smart search is running, system will end smart search.
2. The sensitivity of the smart search is same as motion detection. If you set a high sensitivity, system will search even that there is no motion in specified area. Contrarily, if you set a low sensitivity, it is possible that system will not search when there is some small range motion in specified area. So you should set the sensitivity according to the surroundings.

5.9 Show files

Click  button to show all the files of current cameras.



Last frame, Start, Pause, Stop and Next frame



First frame of that day, Last min., Next min. and Last frame of that day.



Image zoom out. Press this button, single click the left mouse button on an image,

quarter of the image will be enlarge. By thereafter, single click right mouse button on the image, it will resume the normal.



Adjust the voice; click the button to clear the voice.



Adjust playing speed; click the button to resume normal playing speed.

Note:

1. It is not suggested that multi-channel (more than 10 channels) record and playback coinstantaneous unless your PC has a wonderful configuration, because the data throughput of HDD is huge. Multi-channel search in client and server are the same except their paths. In client-ends, there are local and LAN search. In LAN search, it searches among the record data in the local network of server.

Chapter 6 IE client

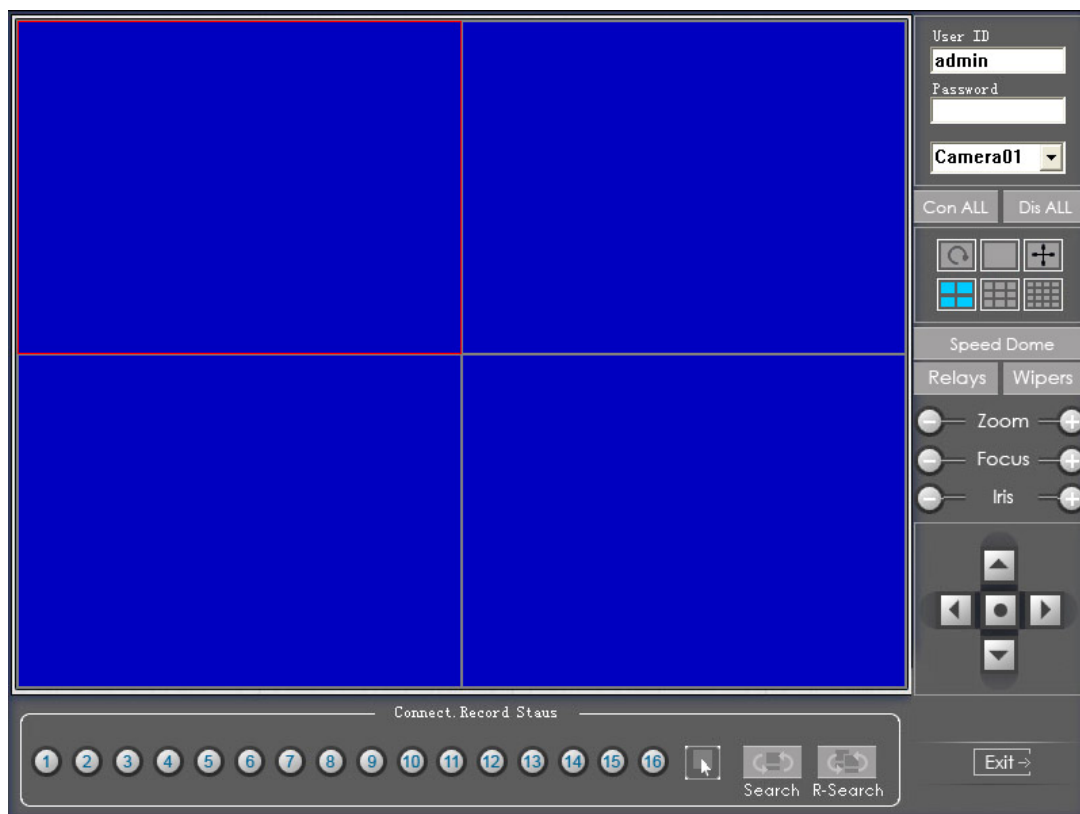
The client user can view video of DVR Server through Internet Explorer, The default web server port is 80; if [user changes it to other port](#), user should add this port number after domain name when visit the video of Server through Internet Explorer. E.g.:
http://192.168.0.119:1160.

6.1 Functions of IE Client


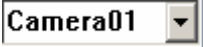



- 1) Video display and video storage
- 2) Audio input
- 3) Searching and playback video image locally or remotely
- 4) Control PTZ and speed demo remotely

6.2 Main interface

When you connect foreside server successfully, you should input valid User ID and password in left up of the interface to acquire rights to play video and other operations.



6.2.1 Connection operations


Press  will connect the DVR Server's camera video from  and press  will disconnect all connections. If DVR Server's channel is more than channels that you selected partition mode, you can use  button to display DVR Server's video in sequence. Pressing button  will switch full screen mode and Right-Single-Click image can back to normal mode.

6.2.2 Connection/Record status



This icon indicates the current connection and their record status:

- White: the channel not connect with image,
- Light blue (sky blue): the channel connected with images (the channel is displaying the images)
- Dark blue: the channel is displaying the images and recording at the same time.

You can change the record status by pressing corresponding number button or change status of all connections at the same time by pressing  button.

6.2.3 Partition mode

You can set the partition mode by pressing corresponding button on the right of main interface. It has follow partition modes:

 —1partition mode;

 —4partition mode;

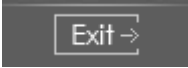
 —9partition mode;

 —16partition mode.


6.2.4 PTZ Control

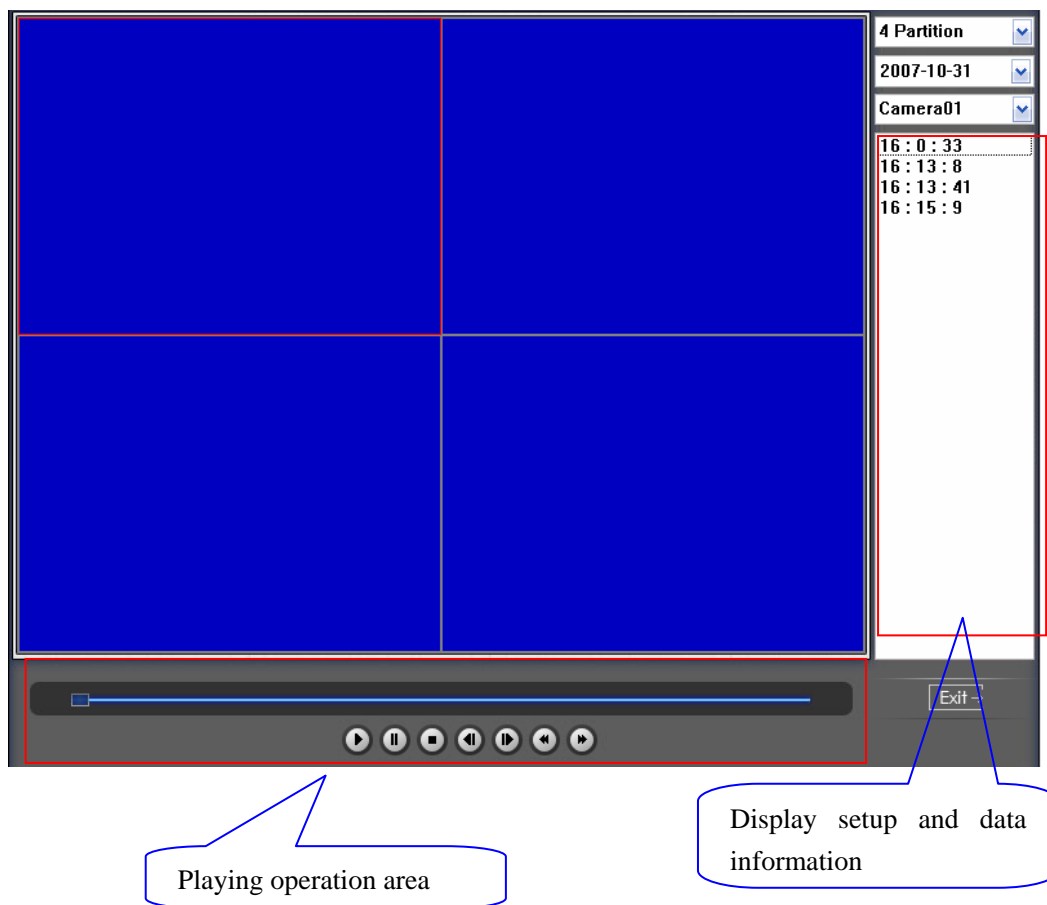
Most functions of PTZ control are same as [PTZ Control panel](#) in DVR Server.

6.2.5 Quit program

Press  button to shut down the IE Client.

6.3 Local search

Press  button to enter local search:



6.3.1 Display setup and data information

In this area, you can select display partition mode, date, video channel and its video file named according to time.

6.3.2 Playing operation area

In this area, you can operate video playing:



[Video-playing time adjustment] Press and drag slider bar

to adjust video-playing time



[Playing-control buttons] Play, Pause, Stop.

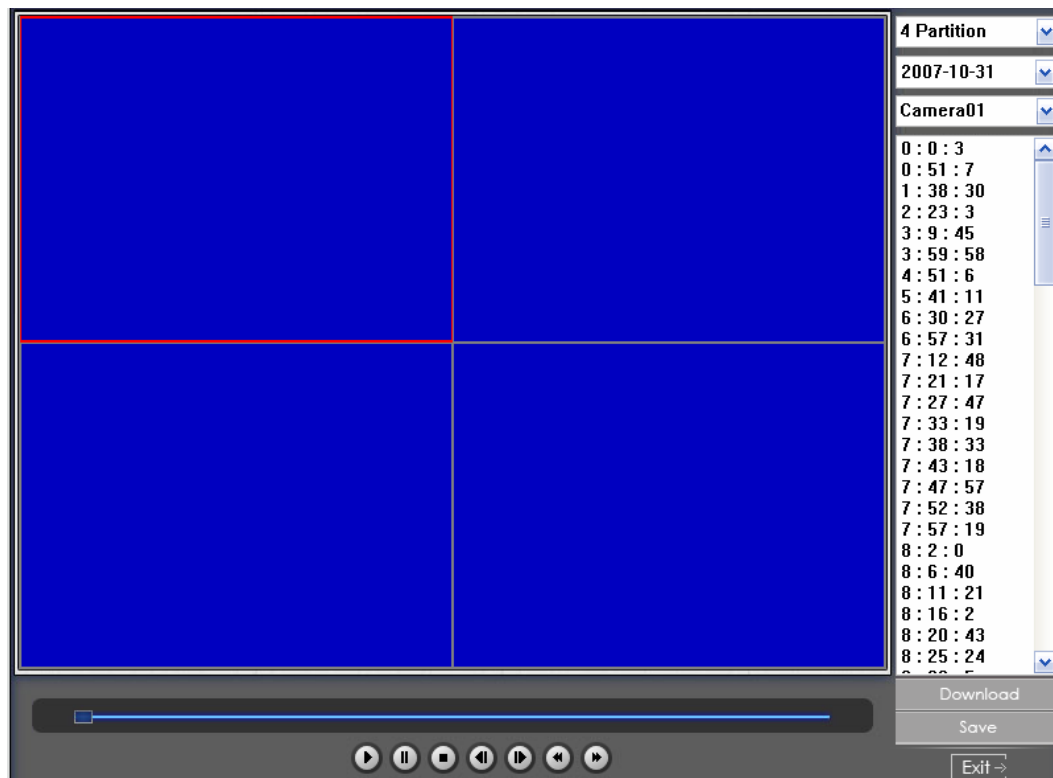


[Single frame play] Previous frame, next frame

[Playing speed control]  Slowly play  Fleetly play

6.4 Remote search

Most functions and operations of Remote search are same as [playback](#); different feature is that remote search added download feature

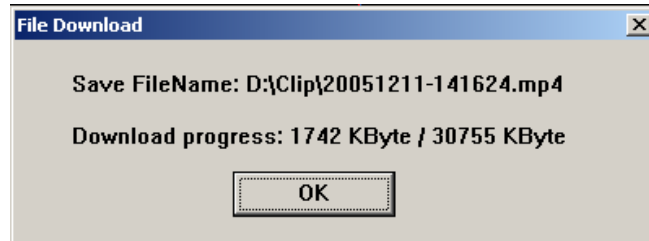
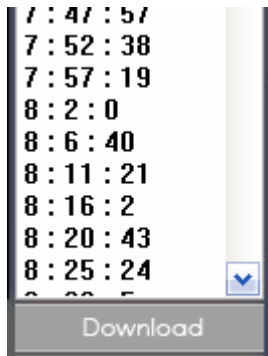


When you playback remotely, you click  button, system will save video of current channel you selected. After finishing it, system will inform the save path.

6.4.1 Fast download record data

In the playback mode, select one camera that has record data, open file list panel, select one record data file, and click  button, the selected data file will

download fast.



NOTE:

When user use IE client to visit DVR server, If connect successfully, there will appear four partition blue window. If connect unsuccessfully, the reasons possibly are:

- ①. The Web server port has been used by other programs.
- ②. Your computer didn't download the player plug normally. The reason may be the jurisdiction of your computer is too high, or your computer has plug filter.

Chapter 7 Mobile Client

7.1 Recommended Mobile Phone Requirements

1) Before you run Mobile Client, please check if your mobile phone supports JAVA and comply with following applicable standards:

CLDC version: CLDC-1.0

MIDP version: MIDP-2.0

2) Your mobile telephone should have GPRS or CDMA to transport data.

3) Set Internet as the access point of your phone call.

4) Select "Enable" to allow the PDA to connect With DVR server in the [network setup](#) of the DVR system.

5) To use PDA connection normally, the DVR board should support dual compression and user must open sub channel compress in [camera setup](#). User should select "CIF " or "QCIF" but not "same as recording" for remote **[Remote Image size]**.

Note:

GPRS is charged by data flow, so shut down the Mobile DVR application if you do not need to view cameras.

7.2 Download software

You have following methods to download our mobile client software:

1) Download through wireless technology (in Wireless LAN) such as Blue tooth, infrared.

2) Copy mobile client software to phone directly through data cable.

3) Download mobile client software through OTA (in WAN), it will describe as follow:
Enter "http://IP:PORT/mobiledvr " in the address bar of the mobile telephone internet explorer to download the setup package of the Mobile Client.

Note:

IP: the IP address of the PC Based DVR server.

PORT: the Port of the IE client of the DVR server.

When you download mobile client software on WAN, you must be sure that your mobile

phone connect with Internet correctly.

7.3 Install and using

7.3.1 Installation

You can install the mobile client as install java games in your smart phone, install mobile client in your smart phone directly (downloaded the program in WAN or LAN) or use the application supplied by the manufacture of your smart phone to install mobile client.

7.3.2 Connection

After you installed mobile client in your smart phone, you should be sure that your smart phone connect with Internet correctly. Currently, mobile providers support WAP and WEB access point, mobile client must use Internet as access point (AP) to access DVR Server remotely.

7.3.3 Login Interface

After you downloaded and installed the Mobile DVR software, you can run it on your mobile phone to enter the login interface.



Login server	
Addr	http://123.127.244.165/
Port	5101
User	admin
Pass	
Options	Close

[Addr] Fill the IP address or domain name of the DVR server.

[Port] Fill the port through which connects to DVR Server.

[User]/[Pass] Fill the valid user with its password to visit server from Mobile DVR. And the server has enabled rights management, login user ID and password from client will be checked. If the user has no right to visit that camera, the connection will be cut down automatically.



Press "Login" button to connect the DVR server.

7.3.4 Camera List

The Mobile DVR will enter the Camera List after you connect the DVR server successfully.



Select the Camera you want to browse and press the "preview" button to get the image from the server.



7.3.5 PTZ control



Press the “Options” button and select the “PTZ” button to enter the PTZ control interface.



[Orientation control] Select the button and press “OK”, it will change into



. After that, by pressing and holding the up, down, right and left buttons, the PTZ camera will move up, down, right and left.

Note:

Please try “5”button on your phone if pressing “OK” does not work.



[Zoom + / Zoom –] Control the zoom function of the PTZ camera.



[Focus+ / Focus –] Overrides the auto-focus setup of the PTZ camera, adjust focus the image.





[Iris on/off] Overrides the PTZ cameras auto-iris and brighten or darken the image.

Chapter 8 Appendixes

Appendix A: Fast key reference


Please refer to [shortcuts keyboard setup](#)


Esc	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	Print	Scroll	Pause
~	1	2	3	4	5	6	7	8	9	0	-	=	←Back		
Tab	Q	W	E	R	T	Y	U	I	O	P	[]			
Caps	A	S	D	F	G	H	J	K	L	;	"	Enter			
Shift	Z	X	C	V	B	N	M	<	>	?	Shift	\			
Ctrl		Alt	Space Bar							Alt		Ctrl			

Insert	Home	Page Up
Delete	End	Page Down

Num	/	*	-
7	8	9	+
4	5	6	
1	2	3	
0		.	Enter

↑		
←	↓	→

 This color key denotes PTZ control.

 This color key is other function control.

PTZ control:

Key	Function
↑	Up
↓	Down
←	Left(in the status of preview)
	Play last frame(in the status of instant playback)
→	Right(in the status of preview)
	Play next frame(in the status of instant playback)
Home	Zoom-
End	Zoom+
Insert	Focus-
Delete	Focus+
C、—、Num0-9G、Enter	Presets Control Operation Call preset
C、—、Num0-9	Presets Control Operation

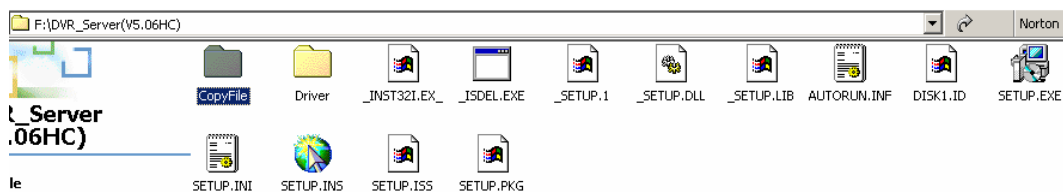
Other controls:

Key	Function
F1	System Help
Tab	Switch the camera channel
Page Down	Next screen
Page UP	Previous screen

F9	All cameras recording 30 Sec emergency
F11	Zoom in/out the single camera view
F12	Switch to Full screen mode (Equivalent to pressing space key except Instant Playback mode)
Ctrl + 0	Enter playback
Ctrl + 1-9	Instant playback minutes
Shift + 1-8	Select screen partition 1,4,9,16,25,36,49,64
WIN+ Z	Minimize the Main System window

Appendix B: How to use “Copy File” folder.

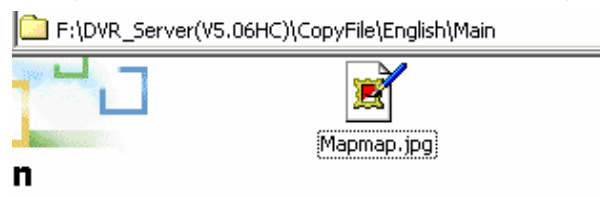
In installation CD, there is a file named “CopyFile”



If you want to replace some files in installation directory, you can copy new files into “CopyFile”, when you finished the installation, the new files will replaced the old files.



If you want to replace some files in sub directory of installation directory, you can create the same directory in “CopyFile” folder with the installation directory.



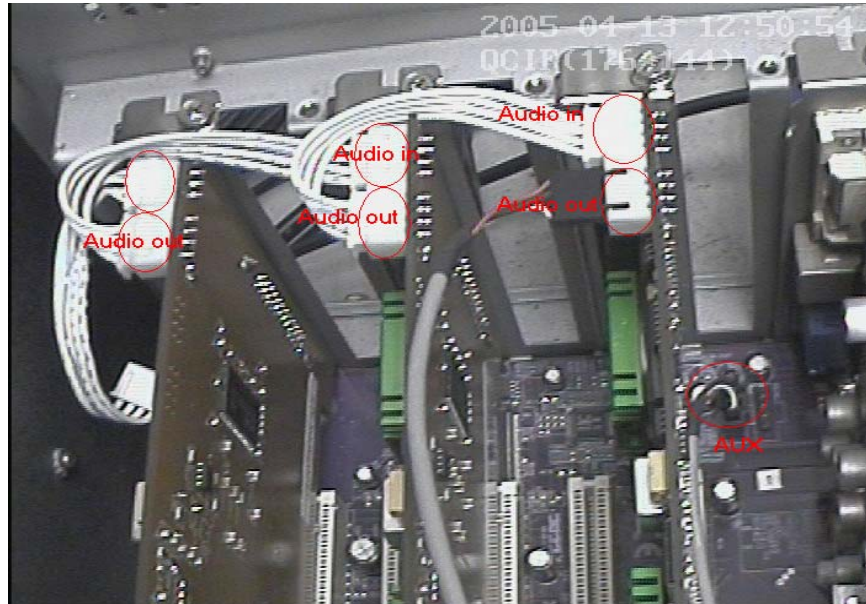
Thus, when you finished the installation, the all files which in “CopyFile” will replace the old files.

Note:

If you replace the image, the new image's size and name should be same with old image.

Appendix C: Audio preview

connect the card use the cable, as follows:



NOTE:

Sometimes there is no preview sound, Solution: double click the volume control of in the taskbar, open the properties dialog box, and check AUX control.

