

DVR system

USER'S GUIDE

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Introductions:

Thank you for purchasing our DVR system. This operation manual is to introduce how to set DVR system and explain all functions for using the system effectively and stably.

You should be better go through this manual thoroughly before installing this DVR system and you can get this manual from your dealer or contact us directly.

System features:

- Support H.264 compression and low HDD cost
- Access web 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 happen
- System operating and alarm logging
- Alarm before recording
- Remote recording
- Send alarm message automatically.
- Send 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
- Support three types of resolution (1024*768 pixels, 1024*768 pixels, 1028*1024 pixels)

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 any questions.

Recommended System Requirements

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

Motherboard: Intel: D915/945PCY, D865PERL

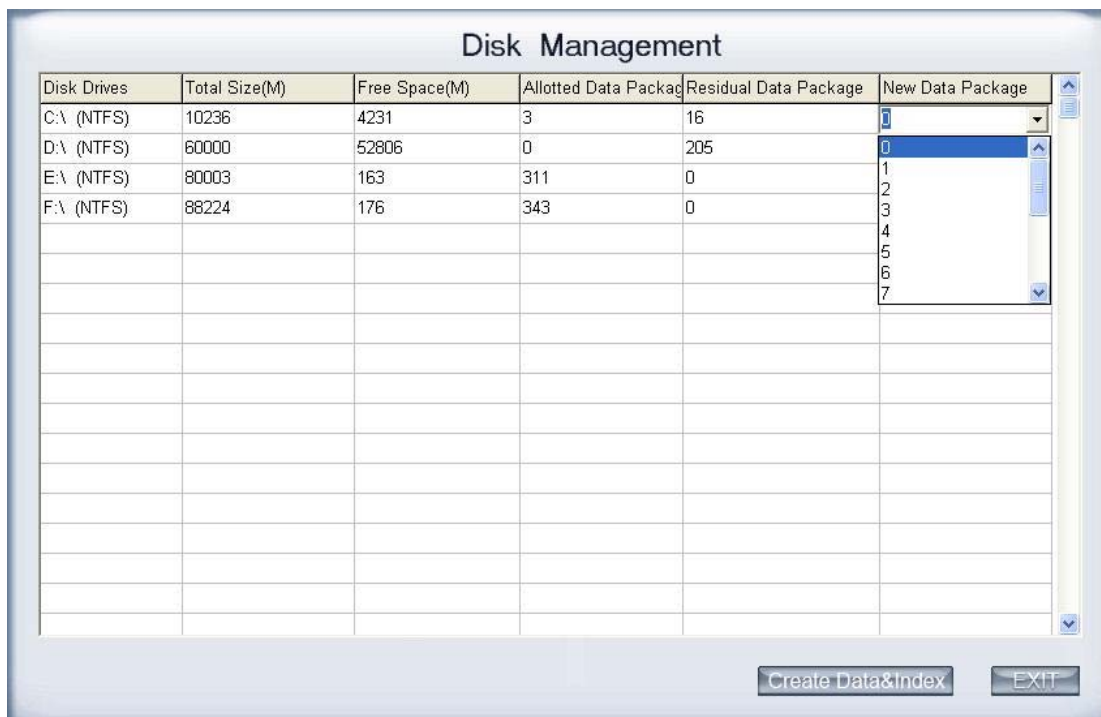
Asus: P4P800SE, P5P800 MSI: 865PE Neo2-F, 915/925/945;

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




Select the new data package number which you want in the drop-down list. The software will calculate the rest space automatically.

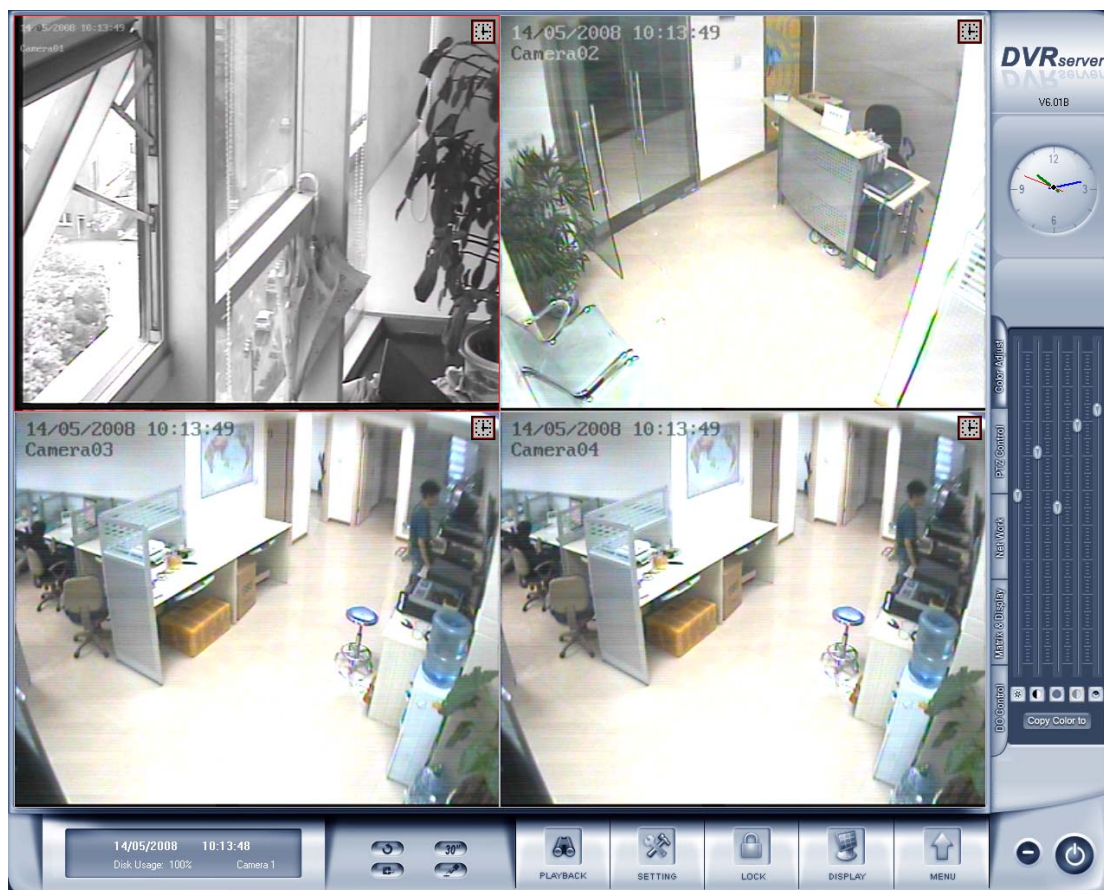
Notice: 1.the space of a package is 256M by default and cannot be changed.
2 If there is no any package is created in disk ,the Dvr server will not record.

1.3 Start up



After installing , a shortcut icon  will be displayed on desktop , Left-Double-Click it to access DVR system.





The main interface is as follow:



Note: the software support 1024*768, 1280*768, 1280*1024 three display ways, dvr adjust display mode automatically according to user VGA setup.

1.4 Main Interface

1.4.1 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.

1.4.2 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.

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. 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**.

While instant playback is in processing, if you want to play it again, you can select **Review playback** function. You can press Space key to switch the play/pause status or direction. In pause status, you can press key **→** and **←** to play next and previous frame. when the screen plays, you can press **↑** and **↓** to control the speed of playing, also, in play status you can press **→** and **←** to play in normal speed and play it again.


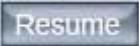
3. Alarm popup

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](#) and [Motion detection 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”.

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 include time and channel name. you can drag time or channel name to where you want directly in screen ,then press  button to save it or press  button to resume time and channel name to default position.

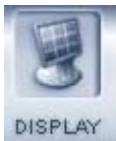
5. IP Camera setup

For this function, it is only available when you Right-single-Click image of IP camera. It will describe in [Chapter 3 IP Camera Setup](#)

1.4.3 Interface description

1. Partition mode




Press  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.




2. Videos-play-in-sequence mode switch

Press  button to switch between playing all cameras in current windows in sequence and not when the current partition number is smaller than the total channels of card.


3. Emergency recording button

Press  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.

4. Image capture

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

5. Manual record switch

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


6. 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.


7. Local setup submenu

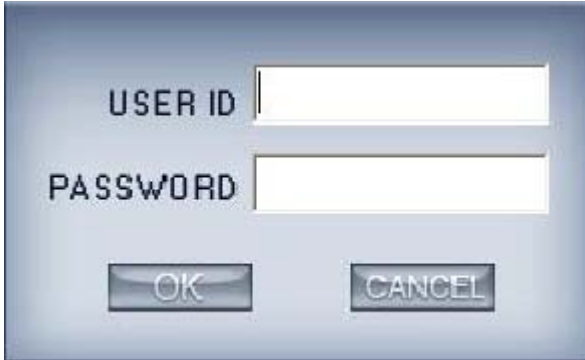
Press  button to enter [Local setup](#) submenu.

8. Playback submenu

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

9. 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.




The image shows a system lock dialog box with a light blue background. It contains two text input fields: the top one is labeled 'USER ID' and the bottom one is labeled 'PASSWORD'. Below the input fields are two buttons: 'OK' on the left and 'CANCEL' on the right.

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)

10. Minimize button

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

11. Exit program

Press  button to exit program.

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



1.4.4 System Menu

Backup System Parameters
Import System Parameters
DVD/CD disc backup directly
Execute a external program
Remote chat
Write to working log
View System log
Open explorer
Open Screen Keyboard
Motion detection setup
Open electron map
Playback to TV monitor
DVR board work mode setup
Keyboard shortcuts setup
Add/Del IP Camera
POS Function Setup
ACU Function Setup
POS/ACU Event Monitor

1. Backup System Parameters

Select this function to export system configurations.

2. Import System Parameters

Select this function to import system configurations.

3. DVD/CD Disc backup directly

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

4. Execute a external program

Select this function to execute an external program

5. Remote chatting

Select this option 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.

6. Write working log

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

7. Open Explorer

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

8. Play back to Tv Monitor

In DVR system, the recording data can be transmitted to TV monitor via Matrix card

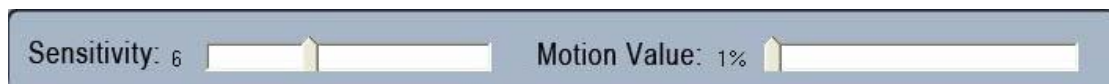
9. Open Screen Keyboard

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.

10. Motion detection Setup



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 **DELETE** 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 **TEST** button to test the sensitivity of motion detection. The sensitivity can be adjusted by dragging the slider bars below the motion detection window,





The Sensitivity value bar is used to adjust the sensitivity of the area you selected,

The motion value bar is used to set the minimum acreage of full screen to trigger alarm. Its unit is percent, if the acreage of motion area exceeds the setting percents of the areas you selected, system will trigger alarm. The default value of Sensitivity and Motion is 6 and 1%.

Notice: motion sensitivity value will affect the accuracy of smart search

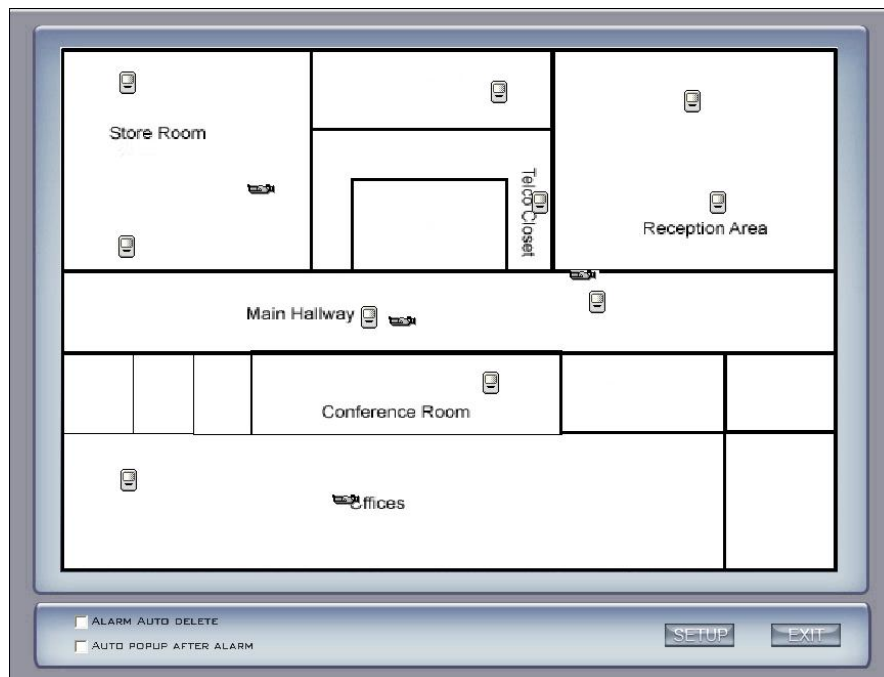
Add mask / Delete mask

Press  button to set the area to be shielded. 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.

11. E-map

Select this option , the setting picture will appear. You can add or delete sensors and cameras that pointed by the arrow or change the digital map.



If it is set to appear automatically, when the sensor is triggered, the map will appear automatically and the sensor being triggered will be marked. For triggered camera, user can Left-Double-Click it to view its video.

11.Keyboard Shortcuts setup

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

of decoder. If you don't use hard decoding, you can't output video of IP Camera real-time, user can only play back recording data to TV monitor by selecting [Playback to TV Wall](#) function.

Note:

Each NV4002MD card can decode 2 channels D1 or 4channels CIF.

Each NV4004MD card can decode 4 channels D1 or 8 channels CIF.

When you select the work mode, system will send out corresponding channels of IP camera from the first IP camera. It will not influence soft decoding for cameras of local board cards. If you enable hard decoding, then all the images of cameras will be displayed in overlay model, adversely, all the image of cameras will be displayed in off screen model.

(1). Add IP camera device

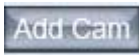
Press  button to add an IP Camera device:



Figure2— 1

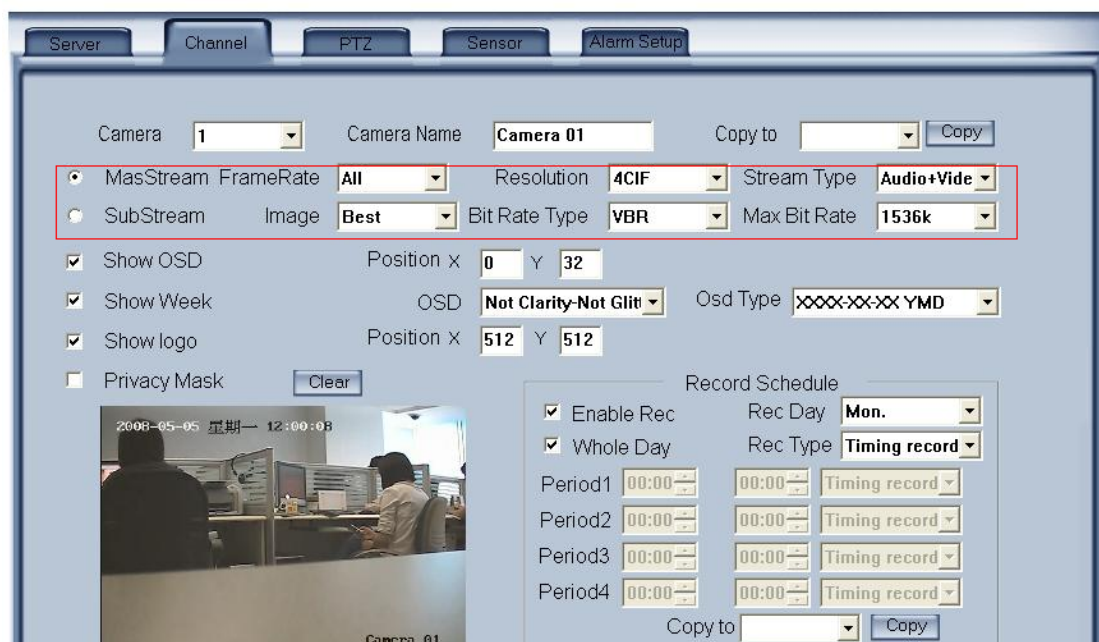
【Server Name】 Set a name for the new IP camera device.

【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.

【Data Stream type】 Select the Main-stream or sub-stream for the device, the main-stream and sub-stream could set in the follow interface:



【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 server's IP.

【DNS Server IP】 Set IP address of DNS server host.

【DNS Server Port】 DNS server host's port, 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 **Mod Cam** button to modify IP camera's information, its interface is same as Add IP Camera.

(3). Delete IP camera device

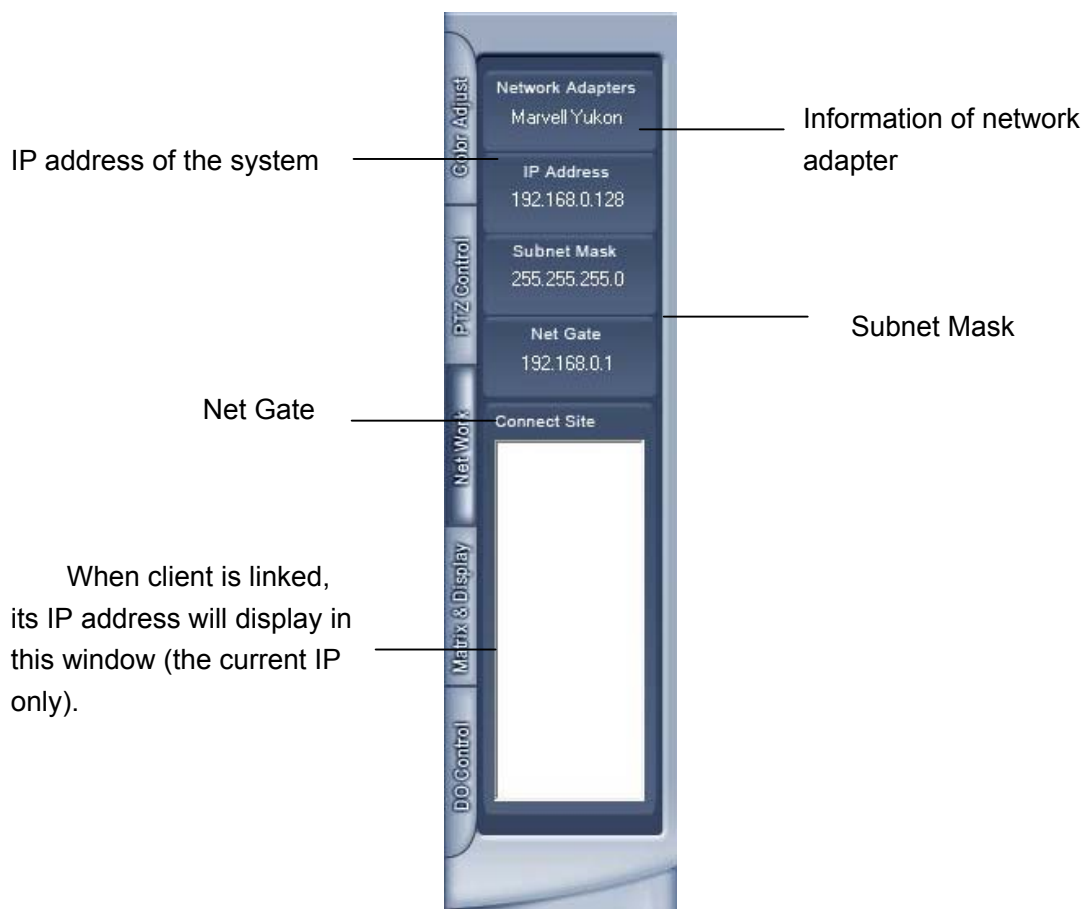
Press **Del Cam** button to delete connected server. When system is in processing to add IP camera device (“connecting...”indicated in connect status column), user cannot delete that IP camera device.

13. Pos Function\Monitor\Text Search

We will introduce the Pos particularly in [1.5 Pos introduction and function](#)

1.4.5 Network panel

This panel displays the network configuration of DVR system.



1.4.6 PTZ Control panel

In DVR system, it has three ways to operate PTZ;

- Panel operate;
- Operate in video area directly ;
- Keyboard operate



1. PTZ speed

Press and drag the slider bar to adjust the speed of PTZ.

2. 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.

3. Wiper (On/Off)

If using the PTZ cameras corresponding wiper control relay, this toggles the relay/wiper on and off.

4. Zoom + / Zoom -

Controls the zoom function of the PTZ camera.

5. Focus + / Focus -

Overrides the auto-focus setup of the PTZ camera, adjust focus the image.

6. Iris + / Iris -

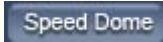
Overrides the PTZ cameras auto-iris and brighten or darken the image.

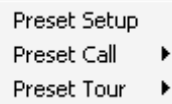


Pressing this button initiates the connected PTZ camera to do an automatic tour of 360, but for speed dome, many PTZ factory forbid this command.

By pressing and holding these buttons, the PTZ camera will move up, down, right and left as well as other directions.

7. Speed Dome

Press  button to operate the speed dome, including Preset Setup, Preset Call and Preset Tour:



Preset Setup
Preset Call ▶
Preset Tour ▶

(1). Preset Setup

In this screen you can set the preset position:

Camera ID

Add/Del. Preset

Preset Name

Preset No.

Call Mode

+ - SET

Preset Name	NO.
123	1

No PTZ action sec back

Home Position

Tour Preset

Preset Name

+ - Stay Time sec

Preset Name	NO.	Time
123	1	5

SAVE EXIT

Add/Delete preset

In this section you can set the preset name with its sequence number, then you can press **+ / -** button to add/delete a preset, when you want to modify the preset you can press **SET** button to confirm your modification. For different cameras, they have different commands to open and set, so you can choose the call mode in the drop-list for different cameras.

Home position

You can set a home position for the PTZ. When there have no PTZ actions after the setting time system will call the PTZ to the home position.

Tour preset

In this section you can set the tour schedule. First you can choose a group,

and then set the track for this schedule; you can press **+**/**-** button to add/delete a preset to it. After you choose the preset name you can set the time to keep on.

(2). Preset call

When you select this function, system will show all the preset names you set in Preset Setup menu; you can click one to move to it.

(3). Preset Tour


When you select this function, system will show the entire tour groups you set in Preset Setup menu; you can click one to execute it.


8. Control PTZ via video window


Pressing and dragging the mouse to the corresponding area can control the PTZ.


1.4.7 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.

1.4.8 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 [2.6 Digital matrix setup](#).

1.4.9 DI/DO Control



1. DI control

Press number button to check sensor all time forcibly even though user didn't set check sensor in [2.3 sensor setup](#). The channel of DI and DO is

determined by the setup of DI/DO device you set in [2.1 System setup](#). The status of DI has three types:

- 2 Input channel 2 doesn't check sensor forcibly.
- 2 Input channel 2 checks sensor forcibly.
- 1 Input channel 1 has an alarm inputting

When there has no alarm yet, user can press number button to check sensor forcibly. Press the button again to stop to check all time, then system check sensor according to [2.3 Sensor setup](#). When there has an alarm, the corresponding button will show the alarm with green.

Note: When you select NV 7632 and the combination is not the standard configuration (combination of NV 7608 and NV 7616 or NV 7608 : total DI is less than 32), some ports are not available according to the setting of decoder address. For example: user selects NV 7632 and the combination is NV 7608 (decoder address is 1) and NV 7616 (decoder address is 2), then the DI port 9 to 16 is not available, the status indication is not available.

2. DO control

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

- 3 Output channel 2 is close.
- 1 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.

Chapter2 Local setup

The DVR System Configuration and Setup include 7 types configuration setup:



[System setup](#)



[Camera setup](#)



[Sensor setup](#)



[PTZ & linkage setup](#)



[Email & SMS setup](#)



[Matrix & display setup](#)



[User setup](#)

Notice: If the DVR software reboot abnormally, the system will send the sms to the mobile number automatically.

2.1 System setup

SYSTEM SETUP		
Number of Channels	1	Sensor Inputs(DI)
Audio Monitoring	Disable	Use E-Map
DI/DO Port	COM2	System Keystroke
DI/DO Device	NV7616	Date Format
POS Function	Enable	Time Format
ACU Function	Enable	Alarm Beep
Dual Monitor Function	Disable	HS Card 4CIF Mode
Sensor outputs(DO)	8	Camera Sequencing Interval
Camera Sequencing Interval	2 Sec	Save Log For
Save Log For	30 Days	Alarm Camera popup Interval
Alarm Camera popup Interval	Sec	Default Camera Type
Default Camera Type	NTSC	Grab picture save to
Grab picture save to	D:\Grab\	

NETWORK SETUP		
Remote Connection	Enable	Remote Port
PDA Connection	Disable	PDA Connect Port
Automatic Alarm Notification Client IP		Alarm Send Port
Use DNS	Disable	Remote Buffer Priority
Remote Buffer Priority	smooth	Web Server Port
Web Server Port	80	Permit Max Connect Video Num
Permit Max Connect Video Num	128	

BOOT SETUP		
<input checked="" type="radio"/> Exit to Windows	<input type="radio"/> Exit and Shutdown	<input type="radio"/> Auto Shutdown
Auto Shutdown	0 H 0 M	
Auto Reboot Date(Mon - Sun)	1 2 3 4 5 6 7	Reboot at
Reboot at	0 H 0 M	

2.1.1 System setup

【Number of Channels】 Display total channels of local board card, the number of IP Camera is not included. For IP Camera, you should set it remotely in [Chapter 3 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】 System keystroke. When it is enable, functions of some system keys will be disabled (Ctrl+Alt+Del included).

【Save Log for() Days】 Log save days(max 100 days).

【POS Function】 Set the pos function disable or not

【ACU Function】 Set the ACU function disable or not

【Alarm camera popup interval】 Set the interval of alarm camera, if you select"—, you can't 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: Currently, system support following NV serials DI/DO devices: NV7608, NV7609, NV7616, NV7616B, NV7632 and NV7632B. NV7632 includes two NV7616 (or combination of NV 7608 and NV 7616), and NV7632B includes two NV7616B. 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, it is available when the input video is lost and for the decoder to playback local video to TV Wall.

【Grab picture save to】 Select the path to save the grabbed pictures.

【Dual Monitor Function】 Select the function to use the dual monitor or not.

Note: If you want to select the dual monitor function, you must make sure the hardware and the system must support the dual monitor first. Or else maybe you can't modify setup to back initial status.

【HS Card 4CIF Mode】 Select the HS Card 4CIF Mode function disable or enable.

2.1.2 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.

【PDA Connection】 Select whether allow [PDA](#) connect to DVR system. If select "disable", it will not permit any PDA device connect this DVR system.

Note:

To use PDA connection normally, the board card should support dual compression and user must set dual setting in local setup (can't set remote image same as recording).

【PDA Connect Port】 Select remote connection port for PDA device.

【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.

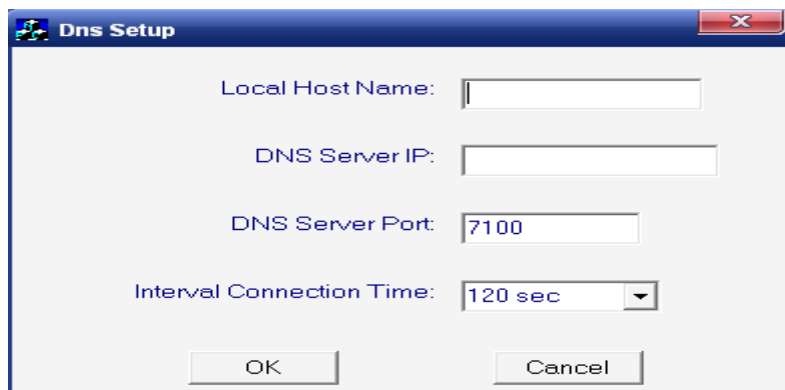
【DNS Connection Port】 DNS server host port, it is used to connect DNS

server.

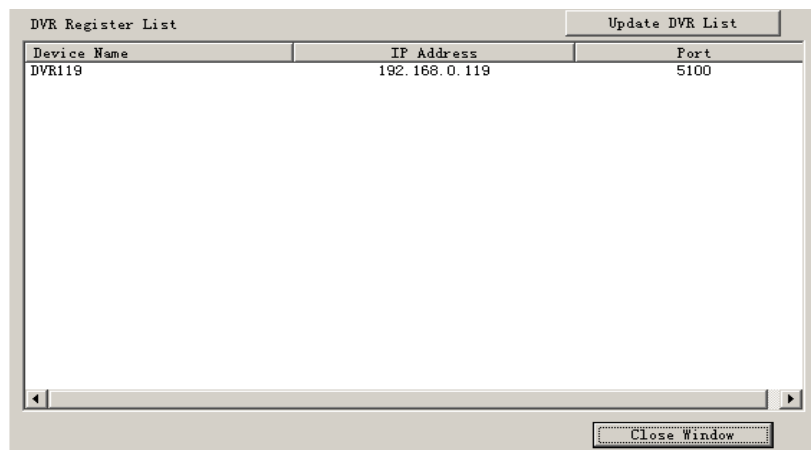
DNS server work mode:

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

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



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;

2.1.3 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.

2.2 Camera setup

CAMERA SETUP

Selected Camera: Camera01 Camera Description: Camera01

Camera Type: PAL Camera: Enable Remote Frame Rate(fps): 25

BitRate: Variable Frame Rate(fps): 25 Remote Image Size: Disable

Image Quality: Very Good Alarm Adjust(fps): Disable Remote Quality: Best

Image Size: 352 * 288 OSD Date: YES Masking Bitmap File:

Record Days: Auto OSD Contrast: 255 Copy Setup to: ALL COPY

GROUP SETUP

Selected Group: Group01

Selected Cameras: 1

Pre-Event Record: 5 Sec Post Record Time: 5 Sec Record Audio: Video

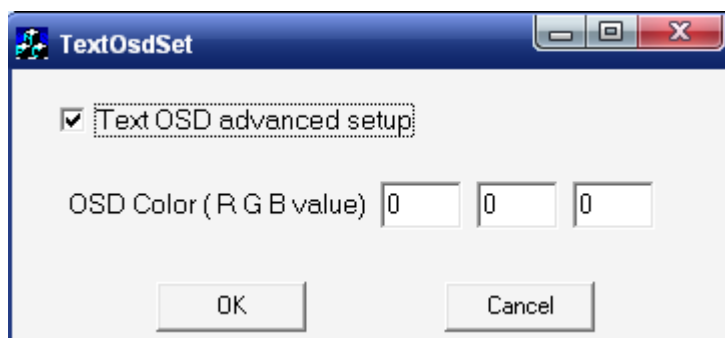
Normal Record
 Sensor Record
 Motion Record
 Motion or Sensor Record
 Not Record

	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	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
MDN	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
TUE	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
WED	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
THU	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
FRI	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
SAT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

2.2.1 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 [Chapter 3 IP Camera setup](#).

【Camera Description】 Input the description for easy identification. OSD text can support any languages, it can put any language in camera description edit blank ,and then press the button to set proper color (it does not support white) as below:



note: Because of the width limit, you'd better input the characters within eight.

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

【Camera】 Enable or disable selected camera.

【SubStream Frame Rate(fps)】 Set the frame rate of the SubStream. **【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.

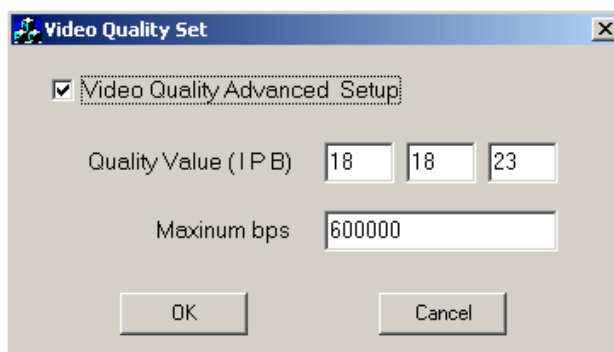
CBR allows each frame to be recorded at fixed bit rate, regardless the scene activity. In many cases, this limits detail (resolution). The benefit of CBR is its ability to accurately estimate the total video capacity.

【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.

【SubStream Image size】 Select image resolution to the SubStream. When you set the **【Image Size】** as 4CIF(704*576), this configuration is not available for HC series card, program will select it as 4CIF("Same as Record") automatically because DVR board does not support dual stream when it records with 4CIF resolution. When you want to use mobile client to access DVR Server, you must open dual compressing function by not selecting "same as record". When you open dual compressing function and the Mobile Client is online, whatever you select, the Clients, including NVR Client and Mobile Client, will just receive QCIF format image; when Mobile Client is offline, NVR Client will receive image as the format you set here.

【Image Quality】 Sets the quality of the image to be recorded. Select from Poorest, Poor, 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:

$\text{Maxbps} = (\text{Maxbps}/3) * 5$ 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. Eg: 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.

2.2.2 Group setup

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

【Selected Group】 Select group number.

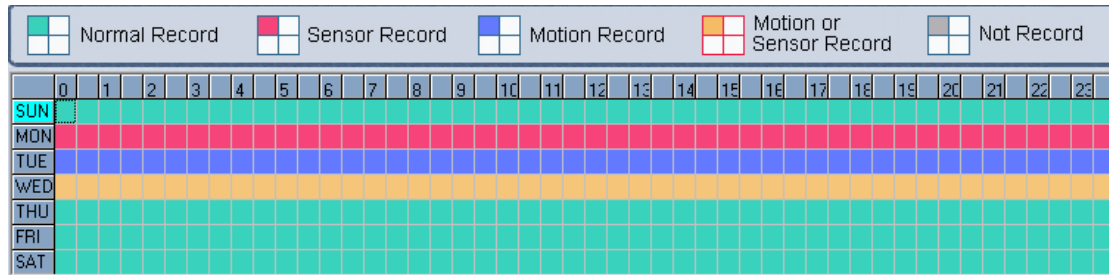
【Selected Cameras】 Select the camera that have the same work mode with group. Cameras include local board card and IP module



【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. Event Record (red): DVR System begins to record video only when there is the pos or the acu acts

Note: The time setup must be correspond with Check Alarm setups in Sensor setup otherwise it can 'to work properly.

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

2.3 Sensor setup

SENSOR SETUP

Select Sensor: Sensor: Sensor Position:

Activate PTZ Preset: Play Alarm Sound: ...

Link to PTZ:

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:

Trigger Output Relays:

Check Sensor Not Check Send Email: Send SMS:

	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																								

2.3.1 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.

2.3.2 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.

【Send email】 Set the send email alarm function disable or enable when the sensor test abnormally

【Send sms】 Set the send sms alarm function disable or enable when the sensor test abnormally

【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)

	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	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
MON	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
TUE	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
WED	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
THU	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
FRI	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
SAT	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red

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 doesn't respond with sensor in this time.

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

2.4 PTZ & Linkage setup

The screenshot shows two configuration panels. The top panel, titled "PTZ PROTOCOL SETUP", includes fields for Selected Camera (Camera01), PTZ Port (COM1), PTZ Protocol (DSC-300S(H)), PTZ Address (1), PTZ Baudrate (9600), and PTZ Position (Normal). The bottom panel, titled "CAMERA DETECTION RELAY CONTROL/ REMOTE CLIENT ALERT", includes fields for DO Port (D001), DO Port Name (DO-1), Camera Alarm Detected In (Camera01), Send Alarm To Client (Disable), Motion Alarm Sound, Video Loss Alarm Sound, Send Email (Disable), Send SMS (Disable), and Trigger DO Output (1-8). Below these fields are four checkboxes: Motion & Video Loss (checked), Motion Alarm (unchecked), Video Loss (unchecked), and Not Check (unchecked). At the bottom is a calendar grid for days of the week (SUN to SAT) and hours (0-23).

2.4.1 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.

2.4.2 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.

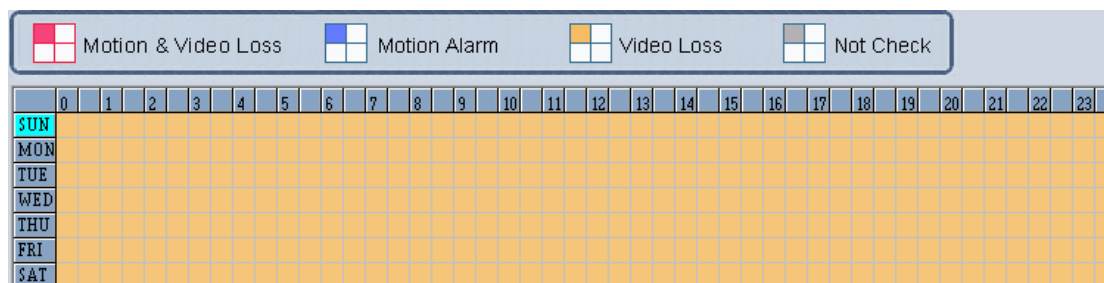
【Send email】 Set the send email alarm function disable or enable when the cameras test abnormally

【Send sms】 Set the send sms alarm function disable or enable when the cameras test abnormally

【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.

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 doesn't 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.

2.5 E-mail & Sms setup



Press  button to access E-Mail setup:

The alarm to trigger sending E-mail include 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](#) (Please refer to 1.4.4) and check alarm in [Motion detection relay & remote client alert](#). For Sensor-related alarms, you should set check sensor and select cameras to be triggered in [Sensor setup](#) (Please refer to 2.3).

EMAIL SETUP		
SMTP Server	<input type="text"/>	SMTP Port <input type="text" value="25"/>
Auth, Type	<input type="text" value="Simple Login"/>	
Login User ID	<input type="text"/>	Login Pass <input type="text"/>
		<input type="button" value="Send test message"/>
Send To	<input type="text"/>	Sender E-Mail <input type="text"/>
Copy To	<input type="text"/>	E-Mail Title <input type="text"/>
E-Mail ScreenShot As Attachment	<input type="text" value="Enable"/>	

SMS SETUP		
SMS Device	<input type="text" value="使用"/>	SMS Use Com Port <input type="text"/>
		<input type="button" value="Send test message"/>
DVR Host Name	<input type="text"/>	
Mobile Number 1	<input type="text"/>	Mobile Number 2 <input type="text"/>
Mobile Number 3	<input type="text"/>	

2.5.1 EMAIL setup

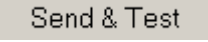
【SMTP Server】 SMTP server address, eg: mail.jstDVR.com,

【SMTP Port】 SMTP listen TCP's port for connect request.

【Auth.Type】 Logon mailbox, operator will select SMTP authentic type.
Or select "simple login".

【Login User ID】 Mailbox's ID.

【Login Pass】 Mailbox's password.

After user setup finished, can press  to test whether email can be sent successfully..

【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.

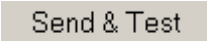
【Email Screenshot As Attachment】 When alarm be triggered, the system will grab a picture, you can choose whether send the picture as attachment to the E-mail.

2.5.2 SMS setup

【SMS Device】 Set the the sms send mode, you can select the SMS pdu mode or the sms text mode.

【SMS Use Com Port】 Set the SMS Use Com Port which the device connect.

【DVR Host Name】 Set a name to sign the dvr which on the SMS displays.

【Mobile number 1】 【Mobile number 2】 【Mobile number 3】 Set the mobile number to receive the SMS,SMS will be sent to the mobile which you set. After setup, press  to test whether the SMS can be sent successfully.

Note:the mobile number should be make up of the international code + mobilephone number .Eg: In China,the mobile number is 86+130*****.


2.6 Digital matrix setup

MATRIX SETUP

Matrix Group

Video Out Port

Video Out Standard Video Switch Interval(Sec)

Video View Mode 

Video Window

Display Video Cameras In Window

1

DISPLAY SETUP

Display Group

Video View Mode Video Window

Display Camera In the Window

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

2.6.1 Matrix setup

【Matrix Group】 System operator can set a groups 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



【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. The Video cameras you can select are cameras of the local board card and IP Cameras. For cameras of board card, system use soft decoding to play to TV Wall, total channels of them is not influenced by decoding channel. 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. If you disable hard decoding by setting in [IP Camera list](#), you can't output real-time video of IP camera to TV Wall.

**Note: one camera is only showed in one window once.*

【Video Switch Interval(sec)】 Set interval that each window shows cameras circularly when there have more than one camera in it.

2.6.2 Display setup

【Display Group】 System operator can set a groups 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.*

2.7 Password setup

USER INFORMATION

Local Password Auto Lock Time Network Password

User Name Auth. Level

Password

Password Confirm

Note:

User Name	Auth. Level
admin	Manager

USER RIGHT SETUP

Select Setup Items Cameras View Right Lock Mode

Cameras

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"/> DVR Board Setup	<input checked="" type="checkbox"/> DO Control	<input checked="" type="checkbox"/> Exit Program	<input checked="" type="checkbox"/> Explorer & para backup

Setup Right

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

2.7.1 User information

【Local Password】 Check to enable User Manage mode for local PC



DVR, and activate the lock button in main window. Only authorized user can log into System at User Manage Mode.

【Auto lock time】 Select a time to enable system to lock automatically when there have no actions after this time.

【Network Password】 Check to enable User Manage mode for Client. When you enable this function, client must pass the authentication to connect with PC DVR.

【User Name】 Input new User ID in this box when add a new user to system.

【Arht. Level】 Select user type. Only Administrator can enter User Manage Window and have the right of user management.

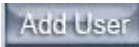
【Password】 Set new user or selected user's password.

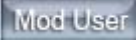
【Password Confirm】 Confirm password again.


【Note】 Input your description of this user.

【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.

2.7.2 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"/> DVR Board Setup	<input checked="" type="checkbox"/> DO Control	<input checked="" type="checkbox"/> Exit Program	<input checked="" type="checkbox"/> Explorer & para 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"/> Linkage&PTZ
	<input checked="" type="checkbox"/> Email Setup	<input checked="" type="checkbox"/> Digital Matrix		


Chapter3 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](#)


3.1 Functional buttons

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

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

 Some setting will only come into effect after device reboots.


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

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

 Exit setup.

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

3.2 Server setup

Press  button to set server parameters remotely:

Server Name	<input type="text" value="Embedded Net DVS"/>	User name	<input type="text" value="admin"/>
Server IP	<input type="text" value="192.168.0.8"/>	User Pass	<input type="text" value="*****"/>
Port	<input type="text" value="8000"/>	DNS Server IP	<input type="text" value="0.0.0.0"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>	Remote Manage Ip	<input type="text" value="0.0.0.0"/>
Net Gate	<input type="text" value="192.168.0.1"/>	Remote Manage Port	<input type="text" value="0"/>
Net Cable type	<input type="text" value="10M/100M(5 cable)"/>	Physical address	<input type="text" value="00:40:30:4e:fd:7e"/>
Use PPPOE	<input type="checkbox"/>	Software Ver.	<input type="text" value="2.0"/>
PPPOE Login Name	<input type="text"/>	Dsp software Ver.	<input type="text" value="4.0"/>
PPPOE Login Pass	<input type="text"/>	Hardware Ver.	<input type="text" value="45056.0"/>
PPPOE IP	<input type="text" value="0.0.0.0"/>		
Serial NO	<input type="text" value="DS6101HF0020070314BCCH001000110WCU"/>		

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

【IP configuration and related】

【Server IP】

【Port】

【Subnet Mask】

【Net Gate】

【Net Cable Type】

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

【Connection configuration and related parameter】

【If use PPPOE】

【PPPOE Login Name】

If system uses PPPOE to connect with web, please select it and input the PPPOE login ID and password.

【PPPOE Login Pass】

【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】

【Remote manage IP】

【Remote manage port】

Set the IP address and port of host server who will receive the message upload from foreside server

3.3 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.

【MasStream】 【SubStream】 Select MasStream or SubStream for the current cameras.

【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 box, 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 is 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.

【Record schedule】 You can set record schedule in following chart

The image shows a 'Record Schedule' configuration window. It includes the following elements:

- Enable Rec
- Whole Day
- Rec Day:
- Rec Type:
- Period1: Start , End , Type
- Period2: Start , End , Type
- Period3: Start , End , Type
- Period4: Start , End , Type
- Copy to:
- PostRec:
- PreRe:

Note: This record schedule is only available to EM-DVR. There are 4 time segments every day. Every segment has start time, end time and record type. The time segment is set in sequence, every segment can't be overlapped, included or skipped with any other.

【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. , Set the time to post or pre the record.

3.4 PTZ control

Press **PTZ** button to set PTZ



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.

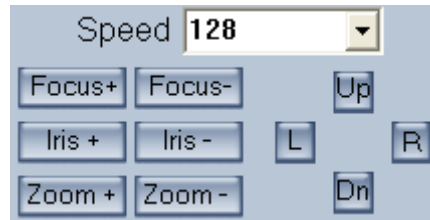
【PTZ Protocol】 Select the communication protocol for the PTZ camera from drop-list.

【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 **Copy** button.

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

【Speed】 Set the speed of the PTZ.

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



Preset Setup

Name Preset

Mode

Preset Name	NO.
22	2
33	3

No PTZ action sec back

Home Position

【Name】 Set the name for the current preset. **【Preset】** Set the preset number for the current camera SetUp the preset by current configuration. Delete the finished Preset. Call the Preset if the Mode is Call preset. The mode is save preset, you should save the preset and shouldn't call the preset.

No PTZ action sec back Set disable or how long the ptz will come back to the home position when there is no ptz action

Preset Schedule

Preset

Call Time H M

Schedule List

Date	Time	Preset
Mon.	00:00	2

【Preset】 it can add the preset into the Preset Schedule, the preset set completed in the AutoPre yet, **【Call Time】** **【Schedule List】** Set the time of the preset should be call at that time.

Tour Setup

Tour Group

Preset Name

Stay Time sec

Preset Name	NO.	Time
22	2	10

Tour Group

Add the Preset cameras into the Tour Group and set the Stay Time for one tour group.

3.5 Sensor setup

Press button to set sensor parameters.

【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:

On screen warning—Display the alarm information on the monitor.

Audio warning—Indicate the alarm with voice.

Upload to center—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.

【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 **Copy** button.

3.6 Alarm setup

Press **Alarm Setup** button to set alarm parameters.

Figure4— 1

【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 detect, 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:

On screen warning—Display the alarm information on the monitor.

Audio warning—Indicate the alarm with voice.

Upload to center—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.

The screenshot shows a window titled "Schedule". At the top, there is a "Day" dropdown menu. Below it are four rows, each representing a time period: "Period1", "Period2", "Period3", and "Period4". Each period row contains two time selection fields, both currently set to "00:00", with up and down arrows for adjustment. At the bottom of the window, there is a "Copy to" dropdown menu and a "Copy" button.

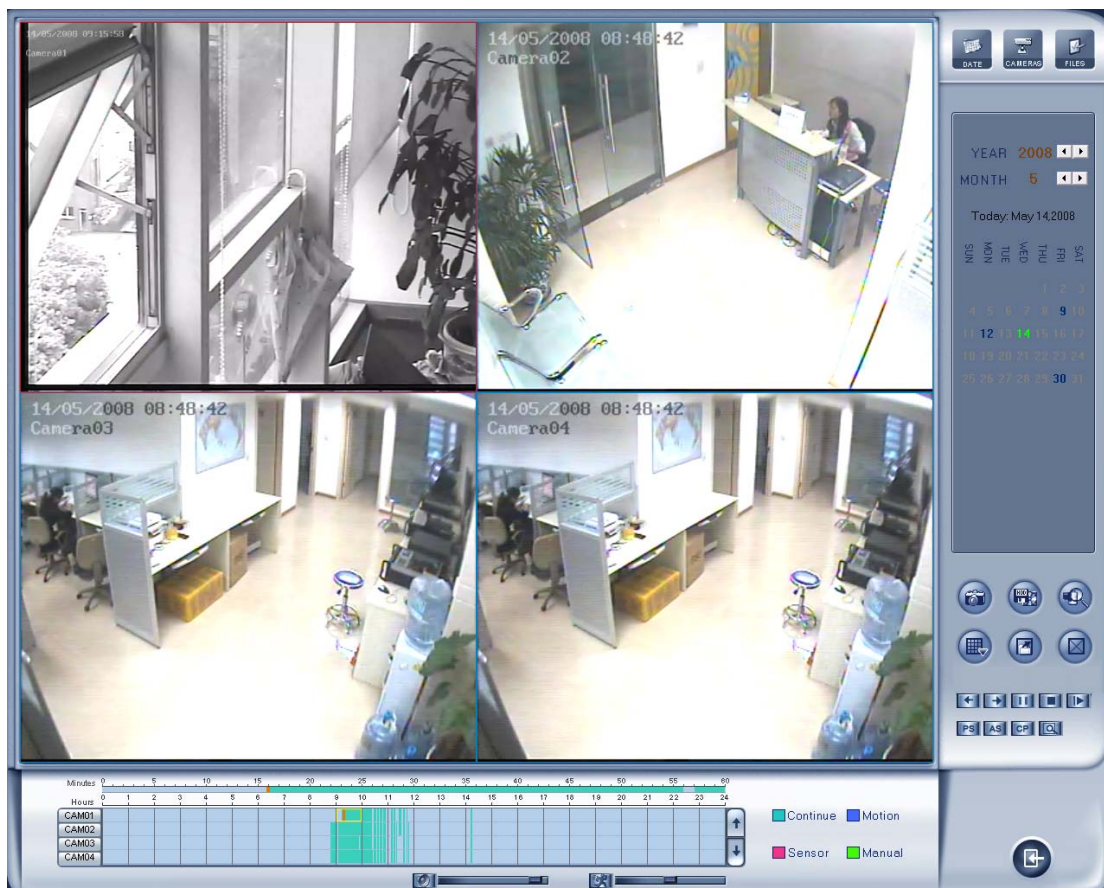
Figure4— 2

【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.

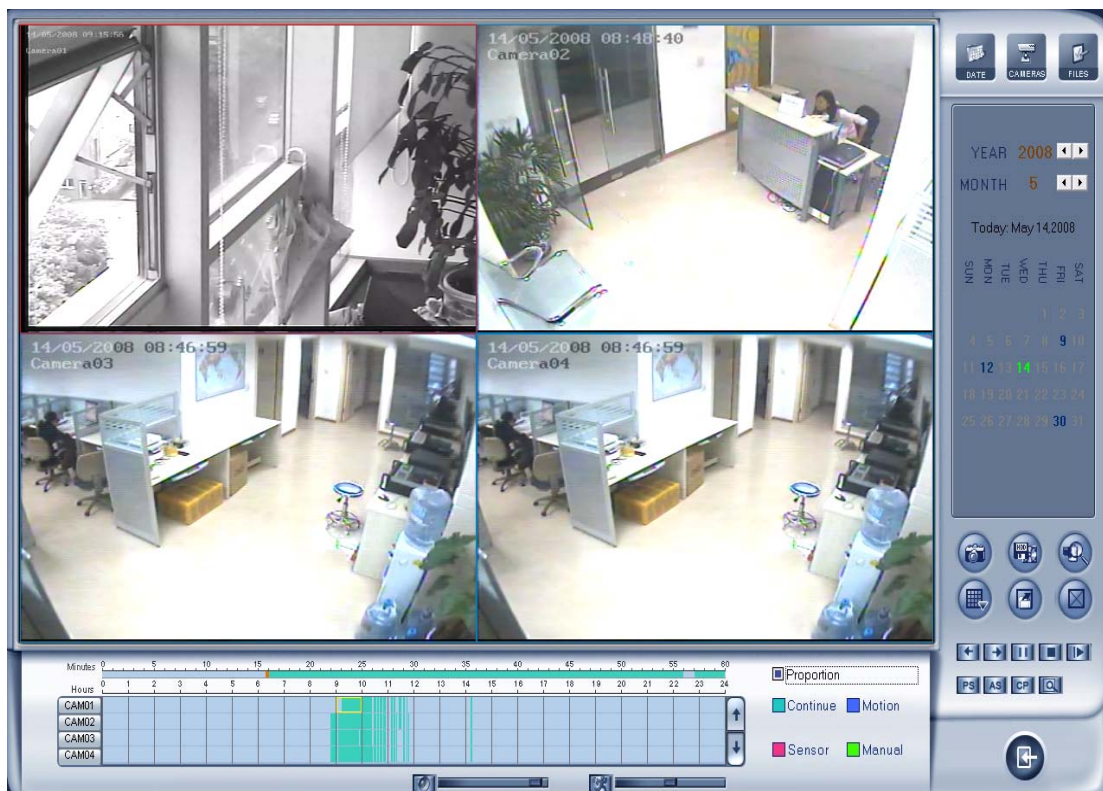
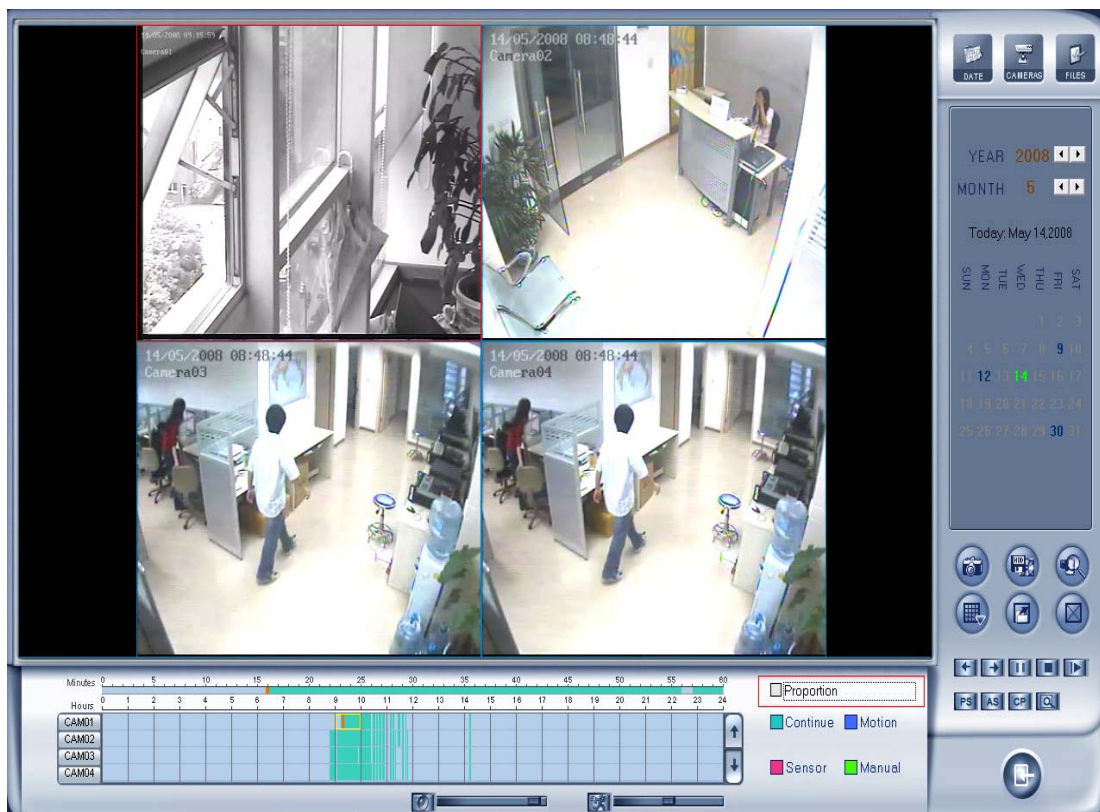
Chapter4 Playback

4.1 Main interface

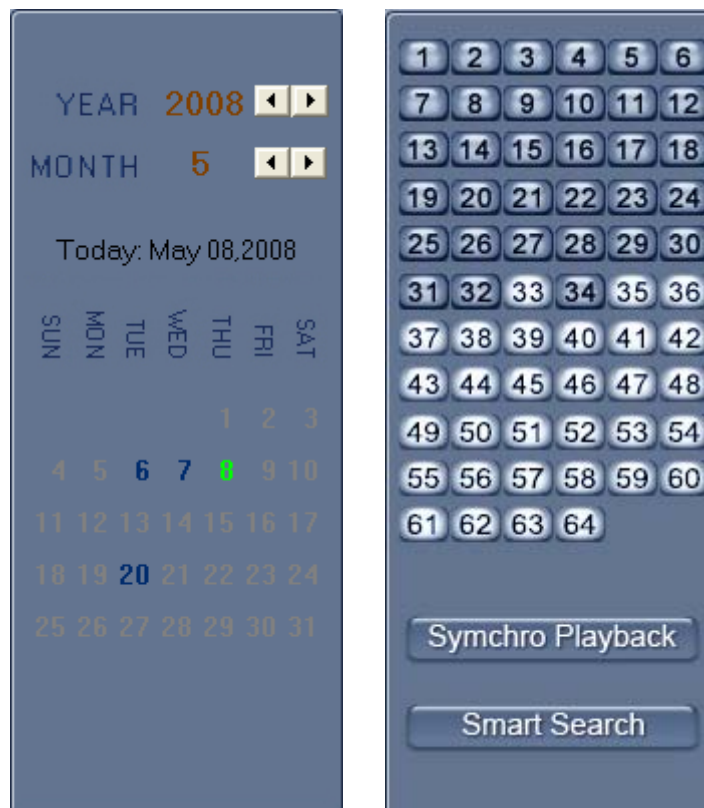
Click  button in main interface to enter playback interface.




if your screen resolution is 1024*768,the playback screen could be adjusted by the Proportion as bellow.



4.2 Select playback channel



4.2.1 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.

You should select the data first, otherwise, you can't entry the all sub-playback interface. It can't select the data in the sub- playback interface

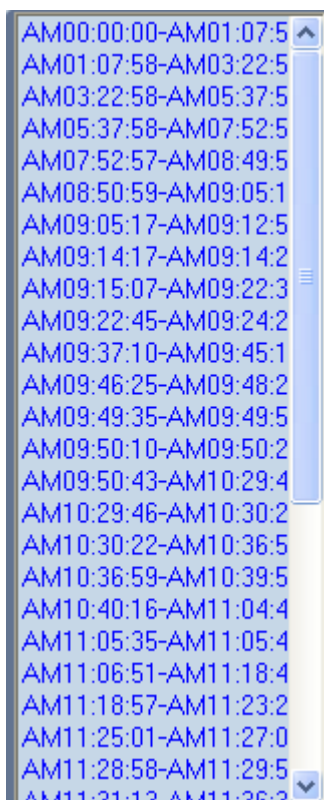
4.2.2 Select camera

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.

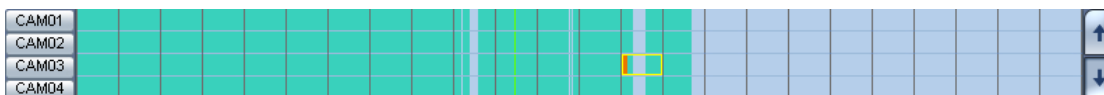
4.2.3 Select file



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 minute's 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.

4.3 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
	4CIF	4

	4CIF	4
	DCIF	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 Minute: press this two buttons to look previous or next minute.



Next frame: press this button continuously to play video next frame, 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.



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 your PC has a 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.*

4.4 Capture picture



Click capture button  to capture a still picture. When one is captured, there will display a dialog to ask for a file name. After your

confirmation, you will be asked to input the save path.

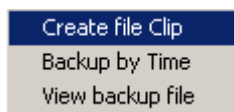
**Note: the size of the image is that of the playing window.*

4.5 Create clip file



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

4.5.1 Create file clip

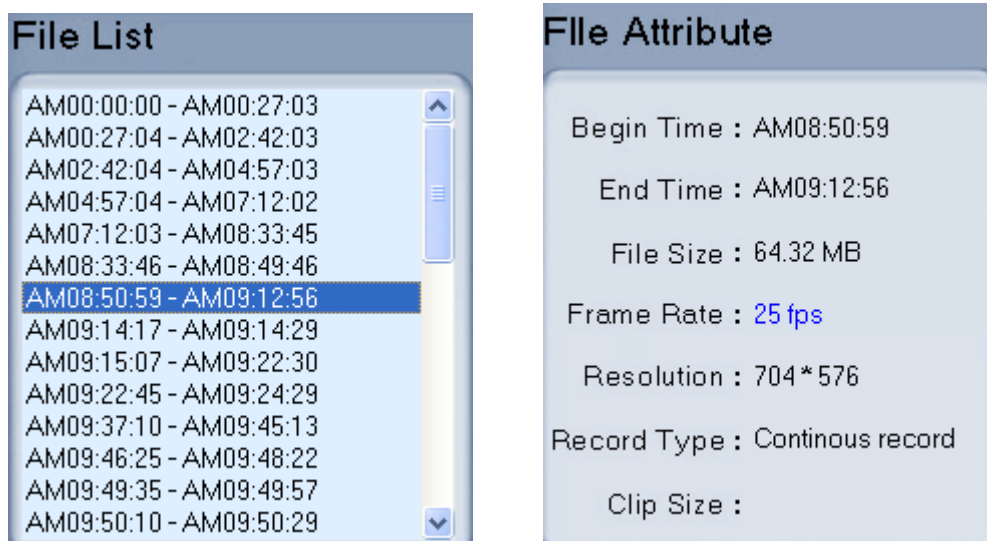


Press  to create file clip.

【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.

4.5.2 Backup by time:

Press  to enter backup by time feature.

BACKUP

Backup Path: D:_Backup_

Select Begin Time: 5/ 8/2008 12:44:17 PM

Select End Time: 5/ 8/2008 3:44:17 PM

Backup Date Size: 417Mb

Backup Camera:

- Camera01
- Camera02
- Camera03
- Camera04
- Camera05
- Camera06
- Camera07
- Camera08
- Camera09
- Camera10
- Camera11
- Camera12
- Camera13
- Camera14
- Camera15
- Camera16
- Camera17
- Camera18
- Camera19
- Camera20
- Camera21
- Camera22
- Camera23
- Camera24


Check Backup Exit

【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.

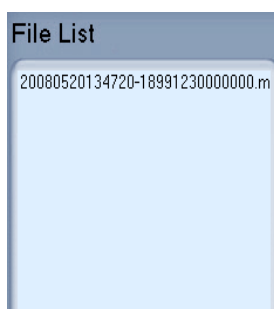
The process of burning CD:

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.

4.5.3 View Backup file



- a. **【Select channel】** Select channel.
- b. **【Save Path】** Select path of the backup file.



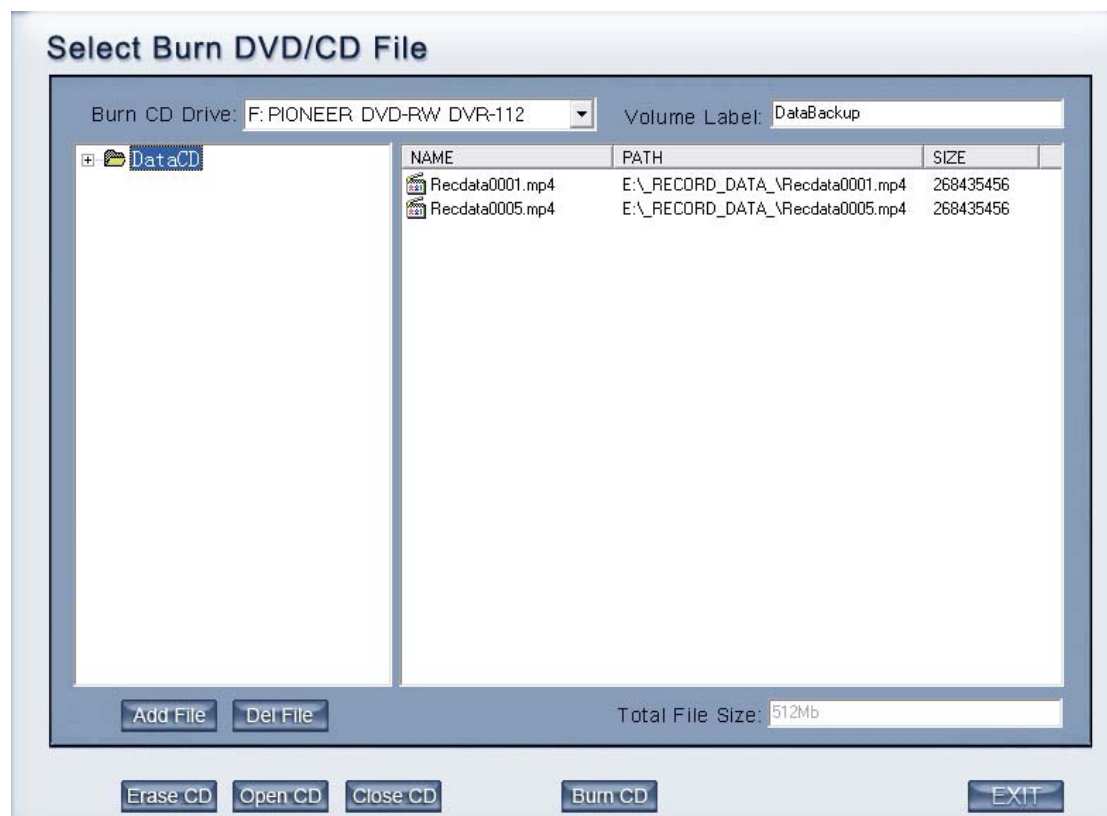
- c. Select one file from File List and Double-Click it, this file will be played. The united file is named by “date + begin time” and “date +

end time”.

d.  Capture a picture.

e.  Burn CD

 Copy the file player in the Save path.



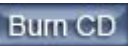
: Add selected file

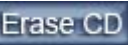
: Delete selected file


【Burn CD drive】 Select CD-ROM driver.

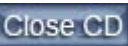
【Volume label】 Set the CD's label.

【Total file size】 Show the size of all files will be burned to CD.

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


 Clean up the data of CD/DVD.

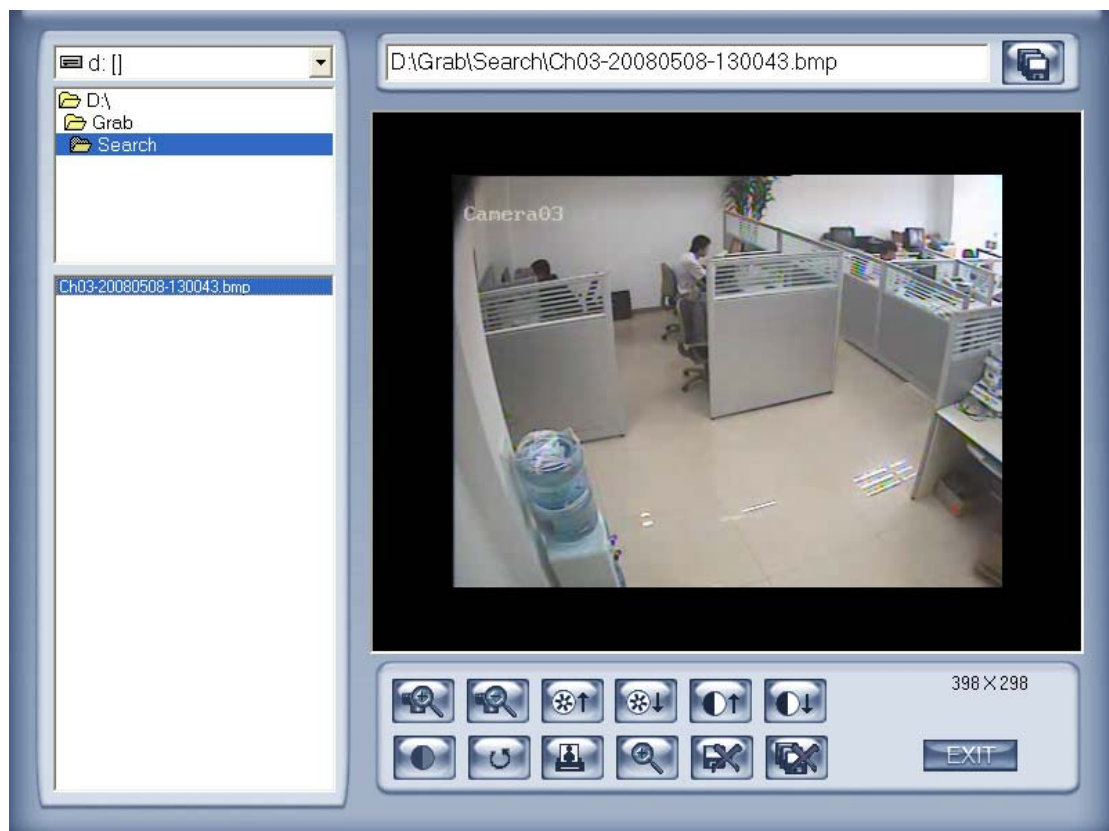
 Open the CD—ROM

 Close the CD—ROM

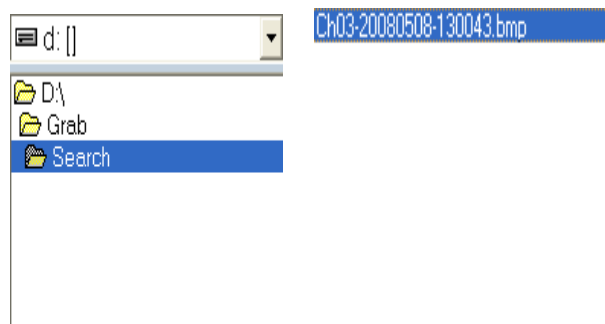
It supports DVD or CD disc backup directly, max support 4.3G DVD disc and user can erase DVD-RW disc and write again, all work needn't install third burning software.

4.6 Search captured picture

Click  to enter the search captured picture window:




【Select pictures from directory and file list】 You can select a captured picture from directory list and file list in local disk and the file name will show in the top of the window.



D:\Grab\Search\Ch03-20080508-130043.bmp

Note:

If you want to save the reworked picture in another file, you can change its name and path here, with BMP or JPG as suffix. Then click the button .

【Related operations】



Save the reworked picture.



Functional buttons of

picture disposal.



When the result of disposal is not good click it to the default.



Print picture, when the image is wider than 400 pixels, it will be printed smaller. On the other hand, it will be printed bigger.



When it's bright, with the mouse moving, part of the picture will be enlarged.





Delete current file or delete all files.

4.7 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.



4.8 Camera status



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

4.8.1 Synchronic play

Click **Synchro Playback** button to synchronize all playback channels time.

4.8.2 Smart search

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](#)

2. Operation and example

Press **Smart Search** 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.

E.g.:



1. There is a telephone on the desk (Picture ①).

2. But it disappeared now (Picture ②).


3. If you want to know where the telephone is, you can select this area on the image to do a smart search when playback the video.

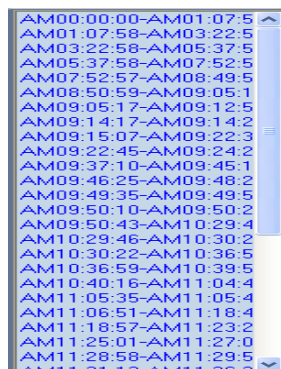
Note:

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.

4.9 Show files



Click  button to show all the files of current cameras.



*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 there are local and lan search. In lan search, it searches among the record data in the local network of server.

4.10 POS Playback

Press the button **PS**, you will see the interface as below:

The screenshot displays the 'POS Search' interface. On the left, a list of transactions is shown, including store information (7-ELEVEN, 1339 N VASCO RD, LIVERMORE CA 945509287), a return transaction, and a purchase of Tylenol. On the right, a camera feed labeled 'Camera01' shows a person at a counter. Below the camera feed are controls for 'Show Txt', 'Date' (5/ 8/2008), 'Camera' (Camear01), and 'From' (11:23:24 AM) to 'To' (11:29:58 AM) time range. Navigation buttons like '< Back', 'Next >', and 'Exit' are at the bottom.

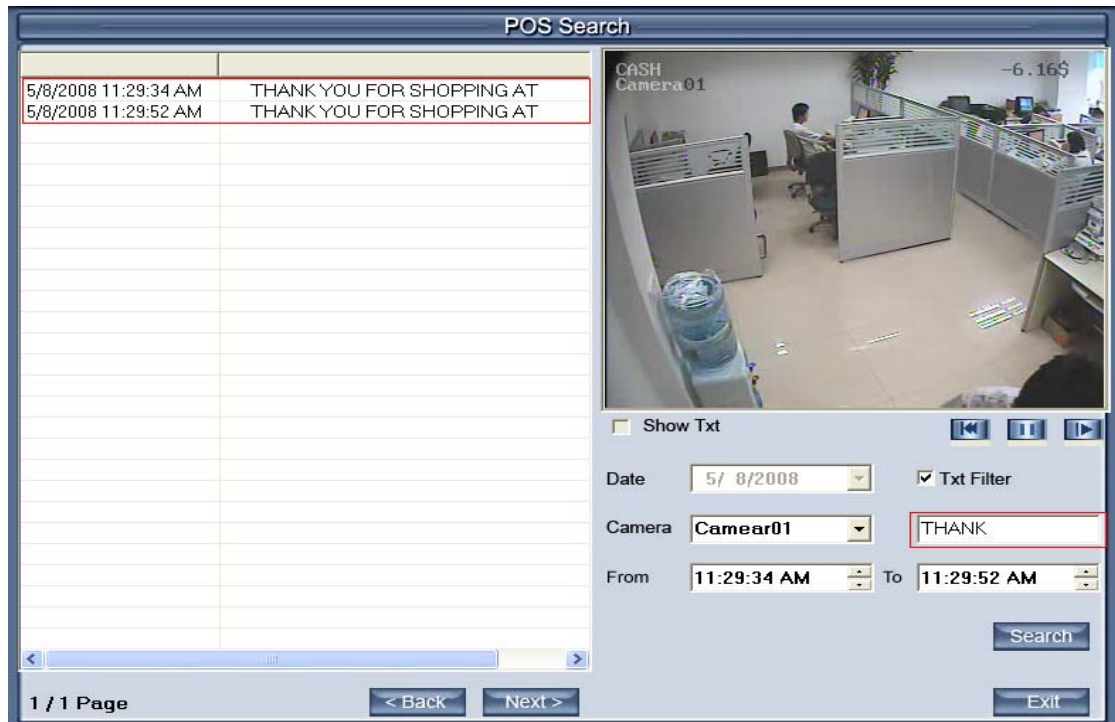
Date	Time	Description	Amount
5/8/2008	11:23:24 AM	7-ELEVEN	
5/8/2008	11:23:25 AM	1339 N VASCO RD	
5/8/2008	11:23:26 AM	LIVERMORE CA 945509287	
5/8/2008	11:29:23 AM	TO MAKE ALL OF YOUR PURCHASE:	
5/8/2008	11:29:24 AM		
5/8/2008	11:29:25 AM	--- RETURN TRANSACTION ---	
5/8/2008	11:29:26 AM	1 TylenolPMXSGelcp24ct	-5.69\$
5/8/2008	11:29:27 AM	TENDER ABORTED	
5/8/2008	11:29:28 AM		
5/8/2008	11:29:29 AM	SUBTOTAL	-5.69\$
5/8/2008	11:29:30 AM	SALES TAX ON -5.69	-0.47\$
5/8/2008	11:29:31 AM	REFUND DUE	-6.16\$
5/8/2008	11:29:32 AM	CASH	-6.16\$
5/8/2008	11:29:33 AM		
5/8/2008	11:29:34 AM	THANK YOU FOR SHOPPING AT	
5/8/2008	11:29:35 AM	YOUR LOCAL 7-ELEVEN	
5/8/2008	11:29:36 AM	T#02 OP25 TRN4987 04/04/06 02:00 pm	
5/8/2008	11:29:37 AM	7-ELEVEN	
5/8/2008	11:29:38 AM	1339 N VASCO RD	
5/8/2008	11:29:39 AM	LIVERMORE CA 945509287	
5/8/2008	11:29:40 AM	9256067751	
5/8/2008	11:29:41 AM	STORE#: 32266	
5/8/2008	11:29:42 AM	USE YOUR 7-ELEVEN CONVENIENCE	
5/8/2008	11:29:43 AM	TO MAKE ALL OF YOUR PURCHASE:	
5/8/2008	11:29:44 AM		
5/8/2008	11:29:45 AM	1 TylenolPMXSGelcp24ct	5.69\$
5/8/2008	11:29:46 AM		

Show Txt: show the txt on the screen,(if you select txt overlay in the Cam setup,the show txt is invalid.

Data :Select the search data.

Camera:Select the search camera

TXT Filter:Search the content including the word. Eg:



The word of the TXT.Filter is THANK,then,press the Search ,the content display all the Pos messages with the “THANK” From.. To: Select the begin time and the end time



press this button to search the record for the setting setup

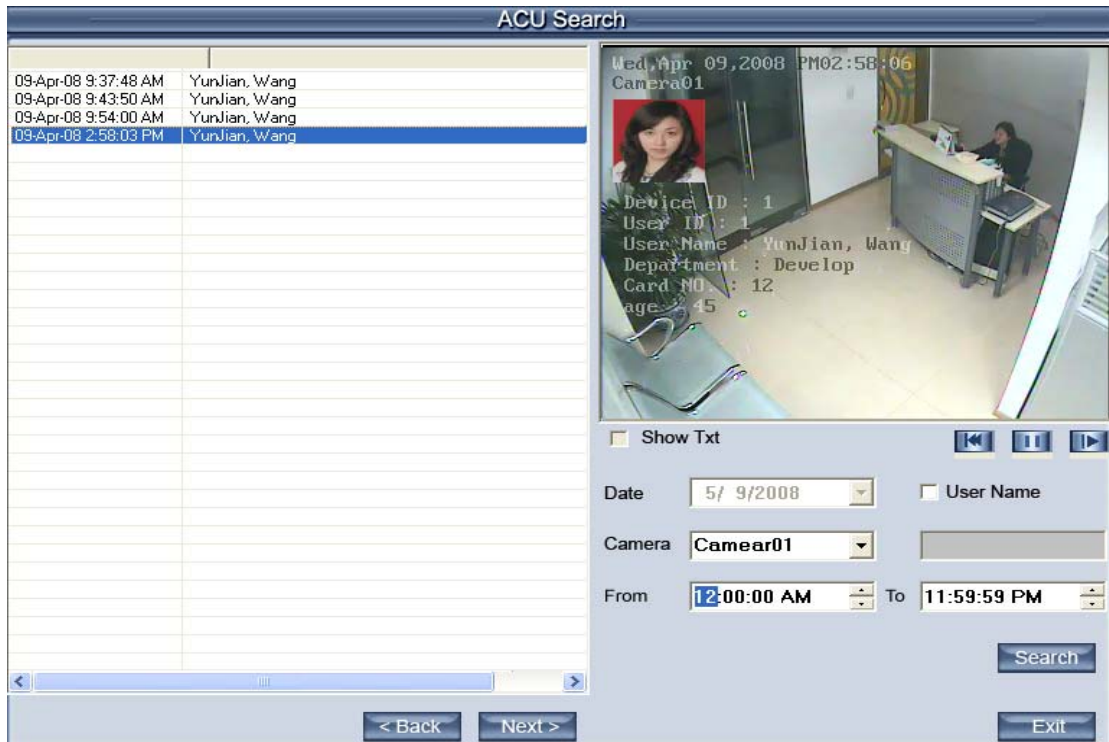


press these button to back or next the display

page.

4.11 ACU Playback

Press the button  ,you will see the interface as below:



Show Txt: show the txt on the screen,(if you select txt overlay in the Cam setup,the show txt is invalid.

Data :Select the search data.

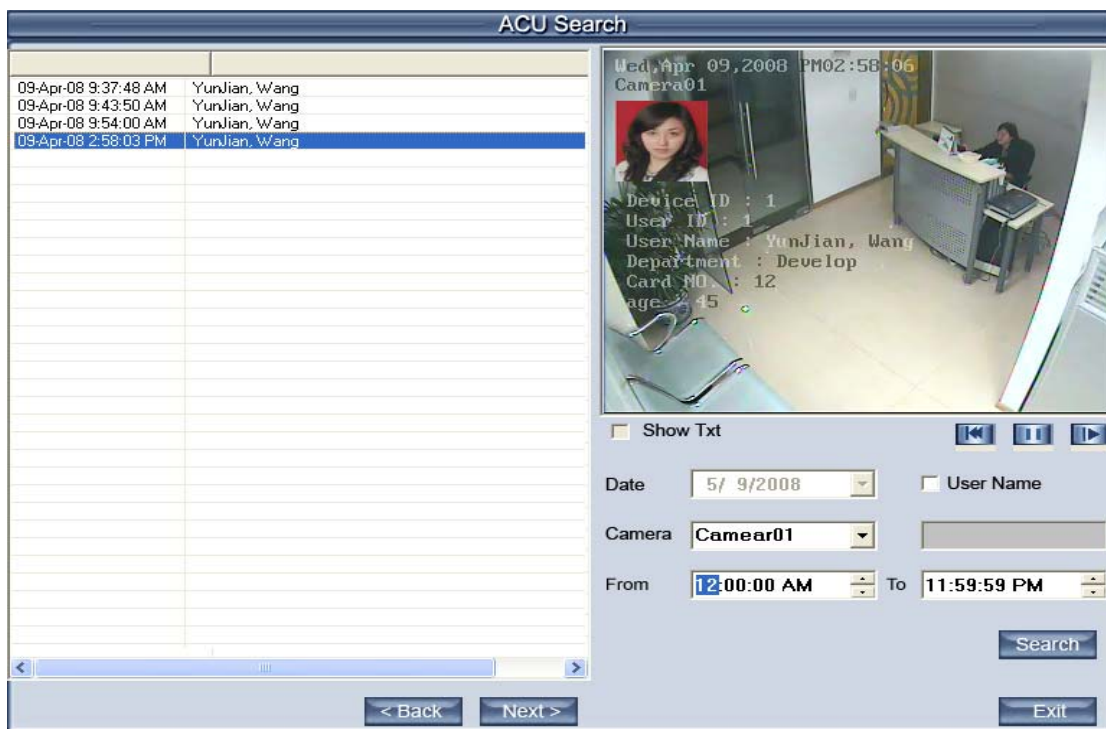
Camera:Select the search camera

From.. To: Select the begin time and the end time



press this button to search the record for the setting setup

User Name: Search the ACU record with the name input in the blanks.Eg:



Input the “Wang” in the User Name, then press search, the content display all the ACU messages with the user name “Wang”

4.12 ICON Playback

Press the button , you will see the interface as below:



Camera

Select the cameras

From To Set the begin time and

the end time of the record , **Time Interval** set the time of the one view plays. Eg: as the above image,the time from 9:45 to 12:00, it include 135 minutes between the begin time and the end time,the screen is 4 views, the first view show the 0-10 minutes' record,the second view show the 10-20 minutes' record, ...,when the 4 views plays endly,it will play the second 40 minutes until the 135 minutes all endly.

Chapter5 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://192.168.0.119:1280.

5.1 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;

5.2 Main interface

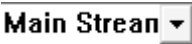


When you connect foreside server successfully, you should input valid User ID and password in left up of the interface to acquire rights to play video and other operations.



5.2.1 Connection operations

Press  will connect the DVR Server's camera video from

 and press  will disconnect all connections.


 Select the Main Stream or Sub Stream for current cameras
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.

5.2.2 Connection/Record status




This icon indicates the current connection and their record status:

- Gray: Not connected;
- Navy blue: Connected with no recording;
- Green: Connected with recording.

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

5.2.3 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; |
|  —6partition mode; |  —9partition mode; |
|  —10partition mode; |  —16partition mode. |

5.2.4 PTZ Control

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


5.2.5 Quit program



Press  button to shut down the IE Client.

5.3 Local search



Press  button to enter local search:



Playing operation area

Display setup and data information

5.3.1 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.

5.3.2 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

【Information display panel】 Display current window name, camera name and record data information.

Window1, Camera1, 00:00:02 / 00:00:24

【Playing-control buttons】    : Play, Pause, Stop.

【Single frame play】   : Previous frame, next frame

【Playing speed control】  Slowly play  Fleety play

5.4 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 **Save** button, system will save video of current channel you selected. After finishing it, system will inform the save path.

5.4.1 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 **Download** 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.

Chapter6 Mobile Client

6.1 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 MobileDVR application if you do not need to view cameras.

6.2 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 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.

6.3 Install and connect

6.3.1 Installation

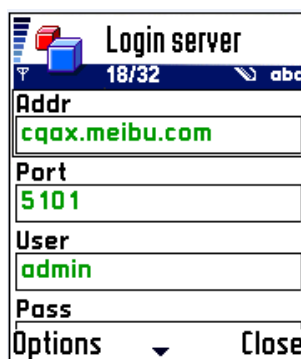
You can install the mobile client as install java games in your smart phone, install mobile client in your smart phone directly (downloaded the program in WAN or LAN) or use the application supplied by the manufacture of your smart phone to install mobile client.

6.3.2 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.

6.4 Login Interface

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

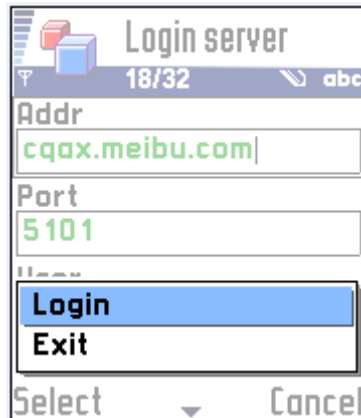


Login server	
18/32	abc
Addr	cqax.meibu.com
Port	5101
User	admin
Pass	
Options	Close

【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 MobileDvr. 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.



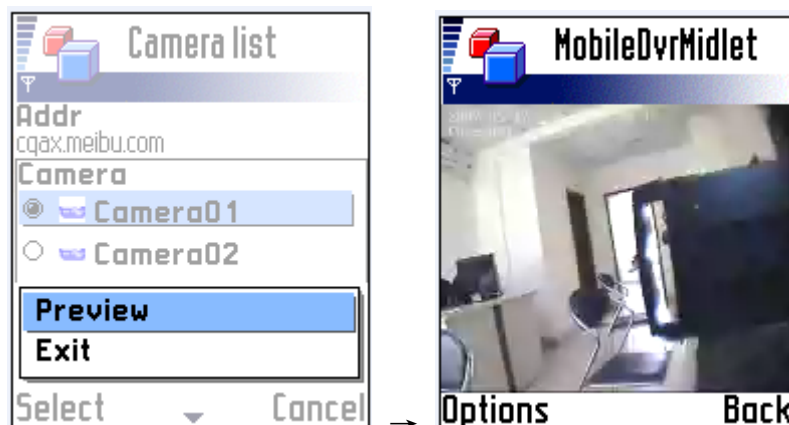
Press "Login" button to connect the DVR server.

6.5 Camera List

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



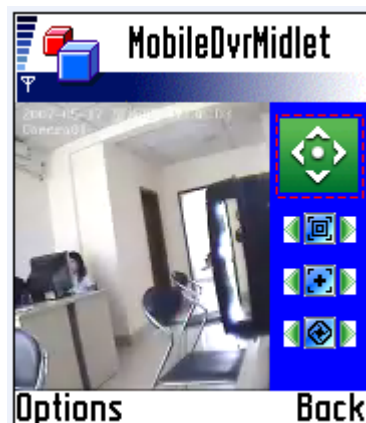
Select the Camera you want to browse and press the "preview" button to get the image from the server.





6.6 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.

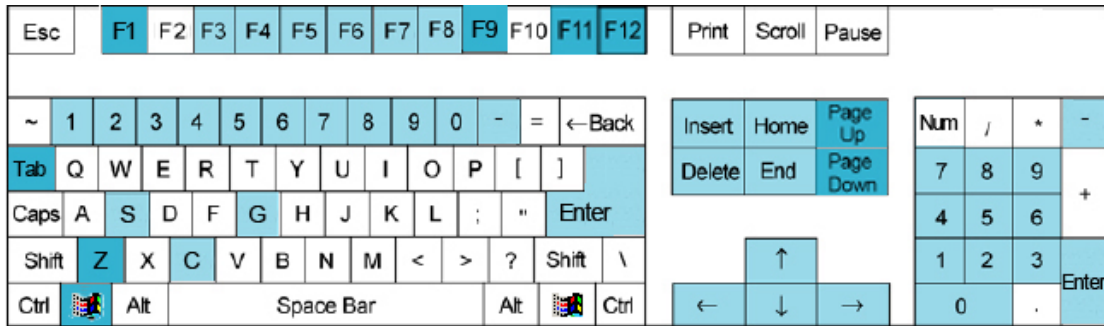
【Iris on/off】:  Overrides the PTZ cameras auto-iris and brighten


or darken the image.


Chapter7 Appendixes

7.1 Appendix A: Fast key reference

Please refer to [shortcuts keyboard setup](#)



 This color key denotes PTZ control.

 This color key is other function control.

PTZ control:

Key	Function
↑	Up(in the status of preview for PTZ control)
	Play in fast speed (in the status of instant playback and review playback)
↓	Down(in the status of preview for PTZ control)
	Play in slow speed (in the status of instant playback and review playback)
←	Left(in the status of preview for PTZ control)
	Play last frame(when pause in the status of instant playback)
	Play again(in play condition of review playback)
	Play last frame(in pause condition of review playback)
→	Right(in the status of preview for PTZ control)
	Play next frame(in the status of instant playback)

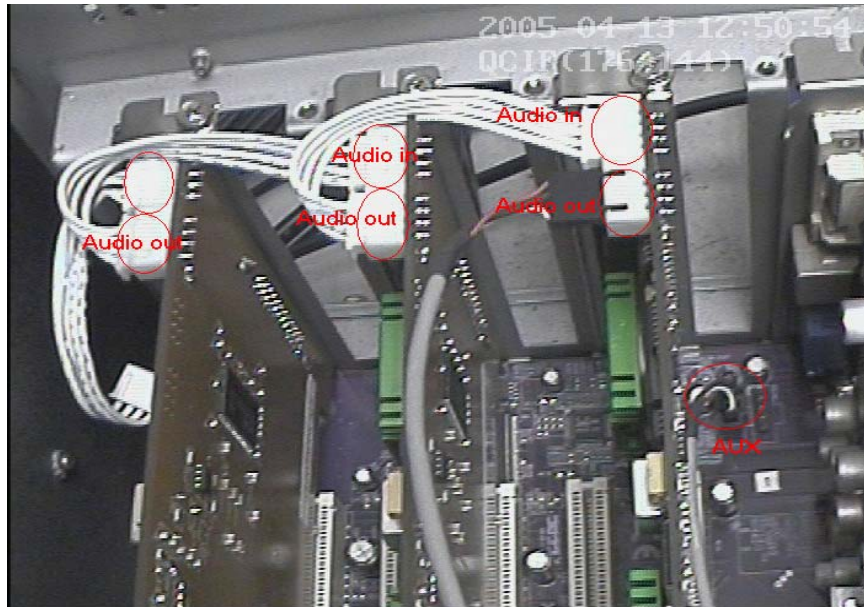
	Play in normal speed(in play condition of review playback)
	Play next frame((in pause condition of review playback)
Home	Zoom-
End	Zoom+
Insert	Focus-
Delete	Focus+
C、—、 Num0-9G、 Enter	Presets Control OperationCall preset
C、—、 Num0-9	Presets Control Operation

Other controls:

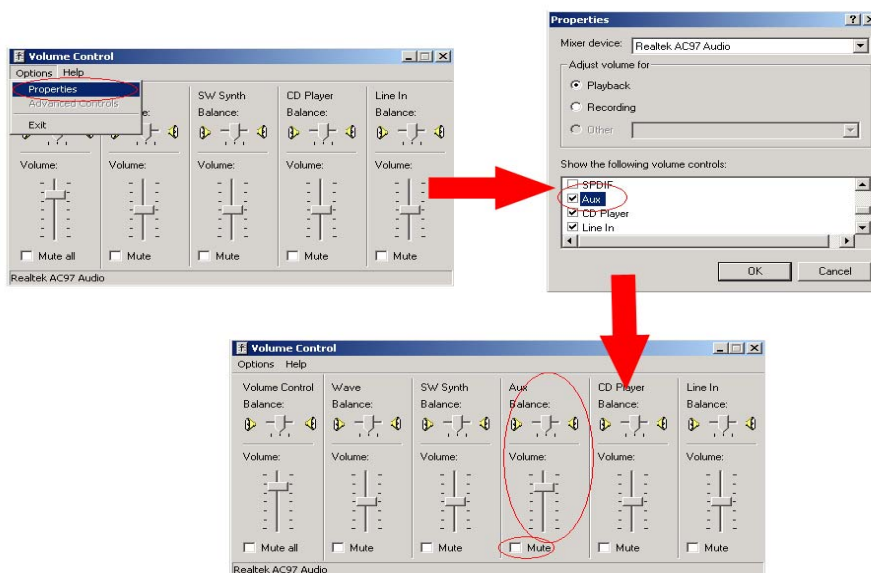
Key	Function
F1	System Help
Tab	Switch the camera channel
Page Down	Next screen
Page UP	Previous screen
F9	All cameras recording 30 Sec emergency
F11	Zoom in/out the single camera view
F12	Switch to Full screen mode (Equivalent to pressing space key except Instant Playback mode)
Ctrl + 0	Enter playback
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

7.2 Appendix B: Audio preview

First, connect the card use the cable, as follows:



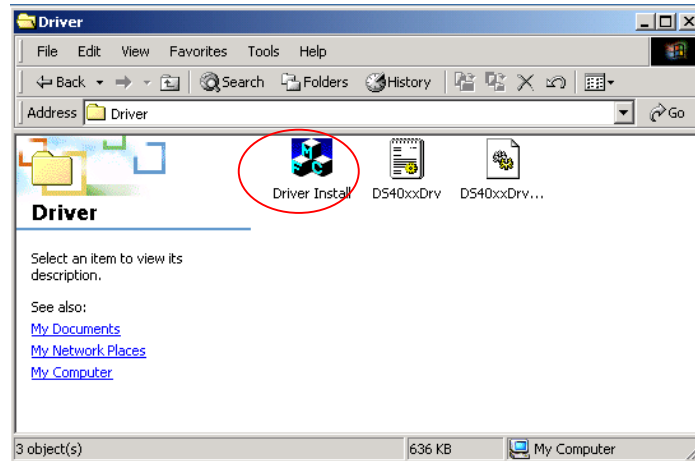
NOTE: Sometimes there is no preview sound, Solution: double click the volume control of in the taskbar, open the properties dialog box, and check AUX control.



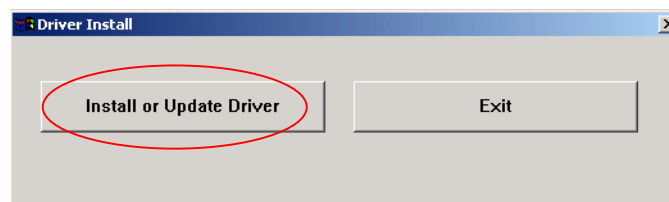
7.3 Appendix C: Update drivers of compressed card

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

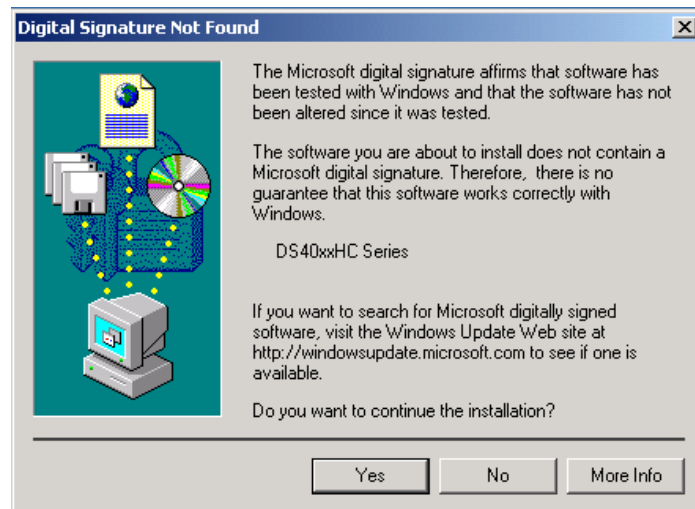
- 1) Find the driver folder, and run "driver Install" program.



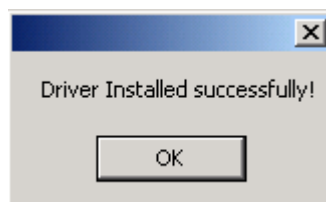
- 2) A dialog will show on the screen.



- 3) Click "Install or Update Driver" button, a prompt UI will inquire you, click "yes", the program will continue the installation.

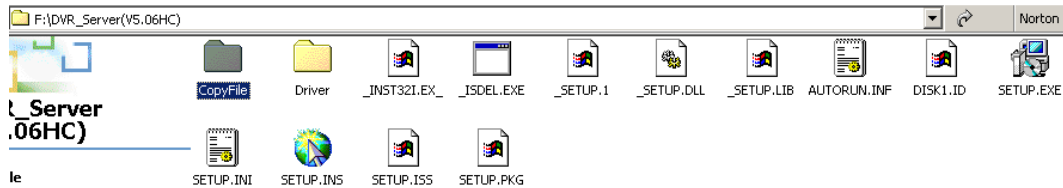


- 4) If the driver installed successfully, the program will show you a prompt, click OK, the install driver program finished.



7.3 Appendix D: How to use “Copy File” folder.

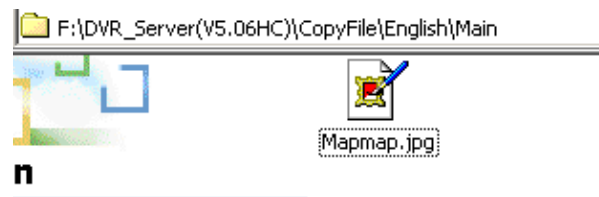
In installation CD, there is a file named “CopyFile”



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.

7.4 Appendix E: Explanation about NV series DVR board.

This DVR System manual is suitable for all NV series DVR board

(NV400XHC,NV400XC,NV400XCE,NV4016HCS)

NV400XHC: support double encoding, when “image size” was selected “D1 Auto F”,NV400XHC card only single encoding.

NV4016HCS: Single encoding.

NV400XC:Single encoding.

NV400XCE:Support double encoding.

7.5 Appendix F: Frequent Asked Questions

- 1) IE client does not visit the server.

Possible reasons: The Web Server port was shielded or has been used by other program.

- 2) Install one card in a PC can run the server program, but install more cards can't run the server program.

Possible reasons: PC Motherboard compatibility issue, please change other brand Intel chipset motherboard and display card.

- 3) Can't view image of cameras

Possible reason: for reduce the load of CPU, we use overlay as the display mode; it output the data from graphic card to monitor directly, please check whether the graphic card support overlay.