

95XX Series Network DVR User Manual



9504/9504R



9508/9508R



H9516V

PLEASE READ CAREFULLY AND SAVE

This manual contains important information about this product's operation. If you are installing this product for others, you must leave this manual for a copy with the end user.

Please read before installing and using this product.

Damages caused by non-compliance with this operating manual will void the warranty! We will not assume any liability for damages to items or persons caused by improper handling or non-compliance with the safety notices! Any warranty claim will be null and void in such cases.

1. Do not drop, puncture or disassemble the camera or receiver; otherwise the warranty will be voided.
2. Avoid all contact with water, and dry hands before using.
3. Never tug on the power cords. Use the plug to unplug it from the wall outlet.
4. Do not expose the DVR to high temperature or leave it in direct sunlight. Doing so may damage the DVR or cause DVR temporary malfunction.
5. Use the devices with care. Avoid pressing hard on the DVR body.
6. For your own safety, avoid using the DVR or power off the DVR when there is a storm or lightning.
7. Remove the power adapter during long periods between usages.
8. Use only the accessories and power adapters supplied by the manufacturer.
9. To meet the regulations pertaining to parental responsibility, keep the devices out of the reach of infants.
10. Check power cables, do not get crushed or damaged by sharp edges whenever the devices are in operation.



FCC Compliance Statement: This device complies with Part 15 of the FCC Rules. Operation is subjected to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Products with CE Marking comply with EMC Directive (2004/108/EC); Low Voltage Directive (73/23/EEC); R&TTE(1999/5/EC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:
EMC: EN 301 489
LVD: EN 60065
Radio: EN 300 328

FCC/CE WARNING

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules and ETSI (EN) 300328. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -Reorient or relocate the receiving antenna. -Move the equipment away from the receiver. -Plug the equipment into an outlet on a circuit different from that to which the receiver is connected. -Consult the dealer or an experienced radio/television technician for additional suggestions. You are cautioned that any change or modifications to the equipment not expressly approved by the party responsible for compliance could void Your authority to operate such equipment.

Disposal

If the devices system no longer functions or can no longer be repaired, it must be disposed of according to the valid statutory regulations. Disposal of spent batteries / accumulators:



You are required by law (Battery Ordinance) to return all spent batteries and accumulators. Disposing of spent batteries/accumulators with common household waste is prohibited! Batteries/accumulators that contain hazardous substances are marked with the symbols on the side. These symbols indicate that it is prohibited to dispose of these batteries/ accumulators in the household waste. The abbreviations for the respective heavy metals are: Cd= cadmium, Hg= mercury, Pb= lead. You can return spent batteries and accumulators that can no longer be charged to the designated collection points in your community, outlets or wherever batteries or accumulators are sold. Following these instructions will allow you to fulfill the legal requirements and contribute to the protection of our environment!

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Chapter 1 Introduction

1.1 Main Feature

This device is a Digital Video Recorder which is special design for security surveillance, using with embedded processing DSP and Linux system with latest IT technology, such as video/audio compression, huge storage recording, TCP/IP network technology, and embed code into FLASH to ensure the system is running stably. The device is with Digital Video/Audio Recording and Digital Video/Audio Service function, which is not only work in local saving and recording, but also could be combined for a huge security control network to be applied in Bank, Telecom, Electrical, Traffic, Residential, Factory, Warehouse and other large surveillance environment.

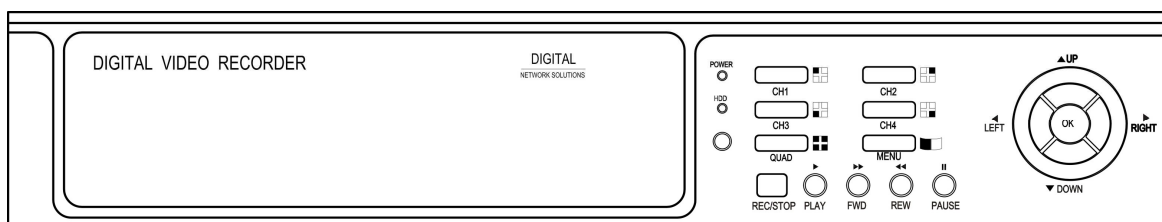
1.2 Parameter

Model No.	9504V	9508V	H9516V
Operation System	Embedded Linux		
Video Compression	H.264		
Video Input/Output	4CH Input/1CH Output	8CH Input/1CH Output	16CH Input/1CH Output
Audio Input/Output	4CH Input/1CH Output	8CH Input/1CH Output	4CH Input/1CH Output
Display Resolution	PAL: 720x576 (D1)		
	NTSC: 720x480 (D1)		
Playback Resolution	PAL: 720x576 (D1) /CIF		PAL: 352x288 (CIF)
	NTSC: 720x480 (D1) /CIF		NTSC: 352x240 (CIF)
Record Frame Rate	PAL: 4×25fps(Adjustable)	PAL: 8×25fps(Adjustable)	PAL: 16×25fps(Adjustable)
	NTSC: 4×30fps(Adjustable)	NTSC: 8×30fps(Adjustable)	NTSC: 16×30fps(Adjustable)
Picture in Picture	YES		NO
Record Mode	Manual, Schedule, Alarm, Motion Detection		
Search Mode	By Time/By Event/By Channel		
Backup Mode	By Network/By USB Disk/By SATA Burn		
VGA	Support		
Network	Support HTTP, SMTP, FTP, DDNS, DHCP, PPPOE		
Multiple Language	Chinese, English, German, French, Spanish, Italian, Portuguese, Russian, Turkish, Japanese, Korean, Thai and Hebrew Language Firmware		
Remote Control	Support		
PTZ Control	Support RS485		
USB Mouse	Support		
Mobile Surveillance	Support		
Video Intercom	Support 1CH		
Upgrade Mode	Support USB and Internet upgrade		
Alarm Input/Output	4CH Input/1CH Output	8CH Input/4CH Output	4CH Input/1CH Output
Image Setting	6 level to be selected		
Live Display	1/4CH Display	1/4/8/9CH Display	1/4/8/9/16CH display
Playback	1CH/4CH Playback	1CH/8CH Playback	1CH/16CH Playback
Power Supply	DC 12V/3A		DC 12V/5A
Working Temperature	-10℃~+50℃		
Working Humidity	10%-90%		

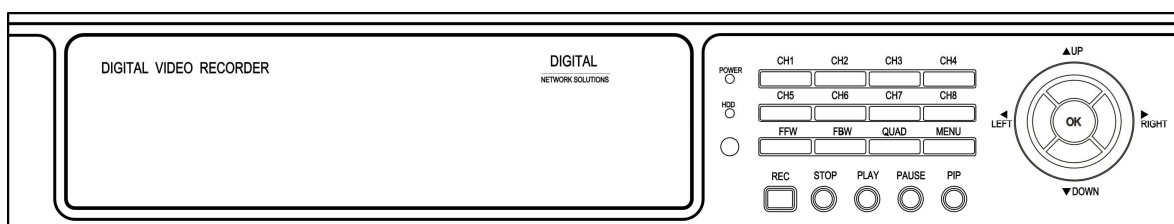
Chapter 2 Device Operation and Introduction

2.1 Front Panel Introduction

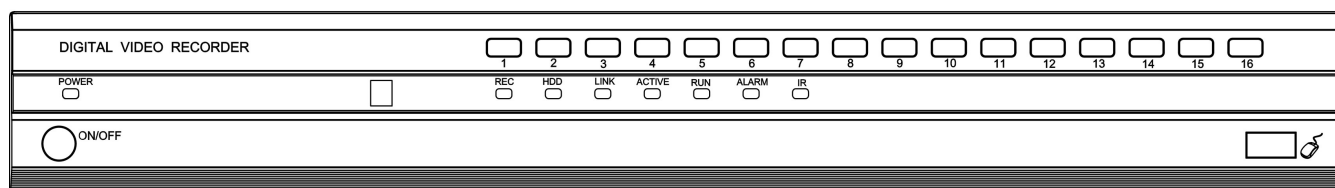
9504 Front Panel Introduction



9508 Front Panel Introduction



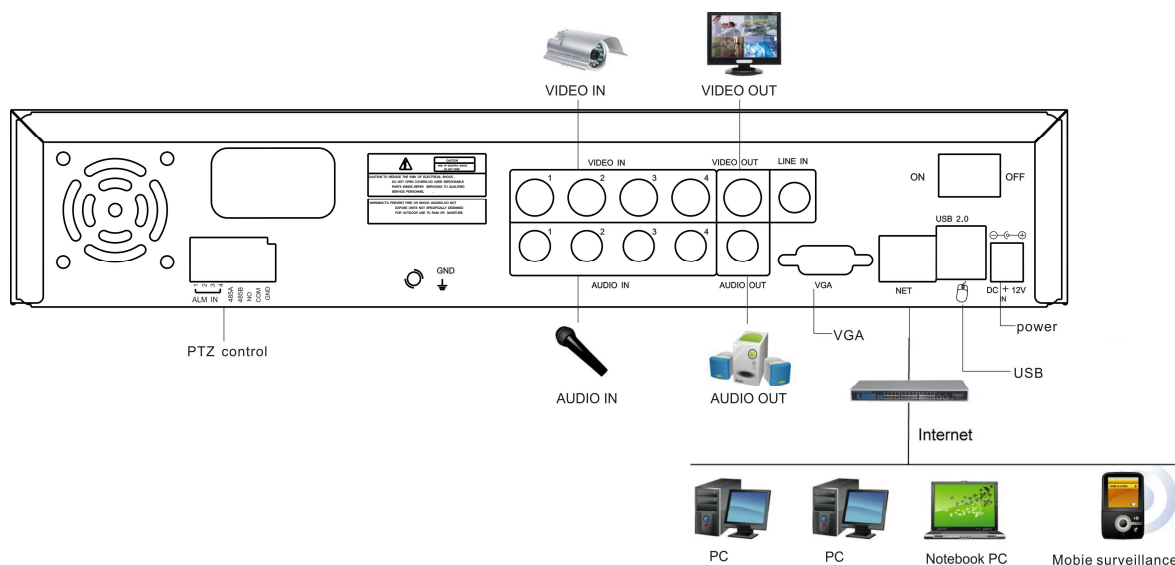
H9516 Front Panel Introduction



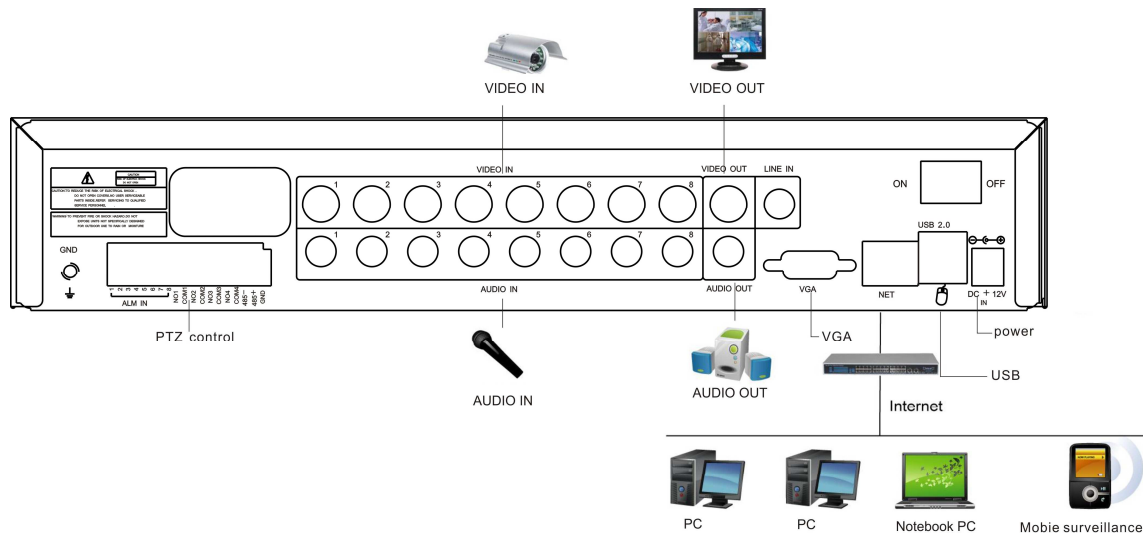
Type	Name	Illuminations
Control Button	Direction Button	Direction button including Up ▲, Down ▼, Left ◀, Right ▶ which can be moved cursor to setup in main menu and control PTZ direction in PTZ menu.
	OK Button	Confirm operation
	Record/Stop Button	【●】 Record / 【■】 Stop Recording
	Speed Control	【▶▶】 Fast forward button, 【◀◀】 Fast reverse button
	Pause Button	⏸ Pause record
	Single Live Window	CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8.....16CH, Single Live window to be selected
	PIP	Picture in Picture in one single live window (except H9516)
	QUAD	Multiple windows for live
	PLAY	【▶】 Playback the record
	MENU/EXIT	Enter the main menu in live window, or exit to sub menu without saving
	HDD	HDD Status light
	POWER	Power Status light
	ON/OFF	Trun off machine (only for H9516)
	IR	Remote control receiver

2.2 Connection Introduction

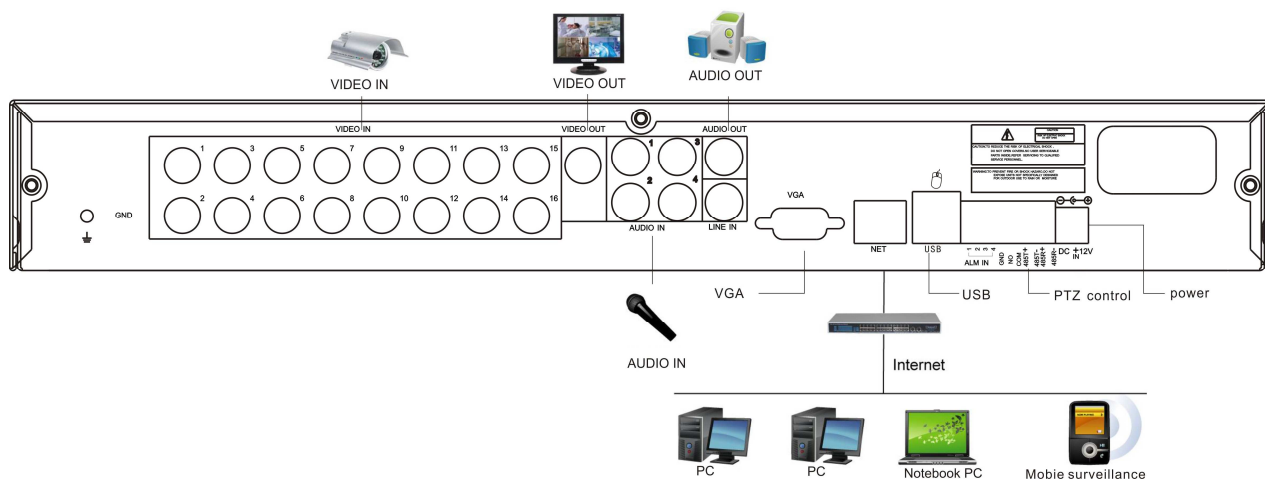
9504 Back Panel Introduction



9508 Back Panel Introduction

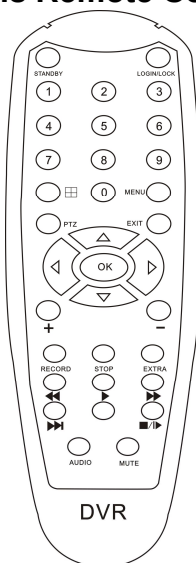


H9516 Back Panel Introduction



Item	Physical connector	Connector Description
1	POWER input	DC 12V
2	ON/OFF	Power turn ON/OFF switch(except H9516)
3	Video Output	1CH Video output to connect with TV or monitor through BNC
4	Video Input	Connect with analog video signal through BNC from camera
5	Audio Input	Connect with audio signal through RCA
6	Alarm Input	Connect with alarm input for 4CH (option)
	Alarm Output	Connect with alarm output (option)
	RS485 Port	Connect with PTZ through RS485
	+5V	Power supply for DC relay and the current is 1A (DO NOT short circuit)
7	RJ45 Port	Connect with Ethernet
8	VGA Output	Connect with display monitor through VGA
9	USB2.0	Backup or copy record data through USB2.0
10	USB MOUSE	Only for USB Mouse control
11	Audio Output	Connect with audio output
12	Fan	To export the heat inside machine, please check the fan for daily maintenance and change a new one if there's problem.

2.3 Remote Control Introduction



Handheld IR Controller Key Functions:

【0—9】keys: During setup, number keys are used to input values. For viewing channels 1, 2, 3 and 4, use 1, 2, 3 and 4 on numeric keypad respectively.

【+】 , 【-】 keys: During setup, plus and minus are used to select next or previous values.

▲, ▼: Up, Down directional keys: Move selection up and down in setup menu.

◀, ▶: Left, Right directional keys: Move cursors left or right in setup menu.

【四分格】 : Switch 4 Channels;

【<<<】 : Fast forward the video while playback. press 【▶▶】 to return to normal speed;

【>>>】 : Reverse the video while playback, press REW to switch, press 【▶▶】 to return to normal speed;

【STANDBY】 : Reset the MDVR to Power on and Power off mode. (standby and start up);

【LOGIN/LOCK】: If the security is enabled in the setup, use LOGIN/LOCK key to enter the user setup. It is important to remember the password due to without restoration function. Log in (to enter into “User ID select” and “Password” input interface) and lock functions (To exit setup and operation)

【MENU】 : Press OSD for main menu;

【PTZ】 : PTZ control, press this key to enter into PTZ control interface when at single live view;

【EXIT】 : Exit to the preview or return to the last menu;

【RECORD】 : Start manual record

【STOP】 : Stop manual record

【ASISTANT】 For future use

2.4 Mouse Control Introduction

You can use mouse to make operation of the menu besides IR remote controller. (The operation is the same as PC Windows).Please inserts the mouse into USB Port.

Click right	Enter into main menu: Click the right key on the live view.
Click left	Click the left key to enter into the setting interface.
	Click the left key to zoom in the window on the live view and playback video. Double click the left key can exit to the live view and playback multi-window interface.
	1. Volume adjustment, color adjustment, PTZ setting and VGA border operation. It is for setting the single channel, PTZ control and color adjustment. If it is multi-window, please use the left key to select the single window. 2. The remark when click the left key, color adjustment, VGA border is as follow: A. There are “-” and “+” for buttons the PTZ setting to adjust parameter, click it can adjust the setting for PTZ. B. There is a sticker to show the volume on the volume adjustment interface. Move the mouse to the corresponding position and click the left key. The right side of sticker will show the volume, click “x” to exit. C. Color adjustment can refer to the volume adjustment interface operation.
	When there are many options in the option frame, click left key to see down-pull menu.
	1. In the input frame, click the left key can activate the keyboard. The number, symbol, English can be input by clicking the mouse. 2. Pinyin also can be input by the soft keyboard when enter Chinese, the method is the same as remote control. You can use the left/right key to turn over the page when check on Pinyin/Chinese word. 3. When input number, click the right key, the number soft keyboard will bob up first, and then use the left key to select the corresponding numerical value. Also click the left key to exit the number keyboard.
Mouse Move	1. Press the left key to move the mouse can adjust the parameter on the volume, color, VGA border interface. And the corresponding parameter will be display at the same time. 2. In the Motion Detection setting interface, you can use the left key to drag the frame to set the motion detection area.

Chapter 3 System Operation Introduction

3.1 START-UP

Connect the power adapter to DVR, and make sure the ground connection is good. When turn on the DVR, the **【POWER】** LED of H9516 will be green (The **【POWER】** LED of 9504/9508 will be red); after login system, there's **【RUN】** LED will be fleshing. In H9516 DVR, press **【POWER】** for 5 seconds, the system will be close and the LED is showing red; Press again the system will restart.

3.2 Preview

After login the system, will show the preview windows; there's system DATE, TIME, CHANNEL NAME in the preview windows. Press the channel number on the front panel or click mouse control to show the single window; press **【QUAD】** for multiple windows to preview.

3.3 Menu Operation Introduction

3.3.1 Button introduction

- 【MENU】 to login system menu;
- 【PLAY】 to playback the record;
- 【REC】 to record by manual;
- 【PTZ】 to login the PTZ setting menu.

3.3.2 Box introduction

There're several different menus in system:

1. Check Box: there're two statuses in this menu, “√” is available, **and** “□” is not available. Press 【ENTER】 or 【↑】 , 【↓】 or mouse to select.
For example: In Search menu, “CHANNEL” and “RECORD TYPE” menu.
2. Selection Box: select the option in the selection box. Press 【↑】 , 【↓】 or mouse to select.
For example: In Search menu, the “SAVE DEVICE” menu.
3. List Box: display the search information in the list, and select the option in the list to operate.
For example: in search list to press 【ENTER】 or mouse to playback the record file; Click mouse right button to select or cancel the record file to backup.
4. Edit Box: input the name in edit box.
For example: in system setting menu, “Channel Name” is edit box which is could be input number or letter.
 - A. Press 【ENTER】 or click “123” by mouse to convert the input type, such as Number, Capital/Lowercase letter, Punctuation or Chinese input.
 - B. Press 【←】 , 【→】 or mouse to locate the edit box and press 【ENTER】 then there's keyboard input, use 【←】 , 【→】 or mouse to select the letter you want to input.
 - C. Click mouse right button to cancel the letter have been input.
 - D. After input, press 【MENU】 or 【ESC】 to exit the edit status.

3.3.3 Exit Menu

Press 【MENU】 or 【ESC】 or click mouse right button to exit the menu to multiple preview windows.

3.4 Main Menu Introduction

Press 【MENU】 or click mouse right button to login main menu, there are three options:



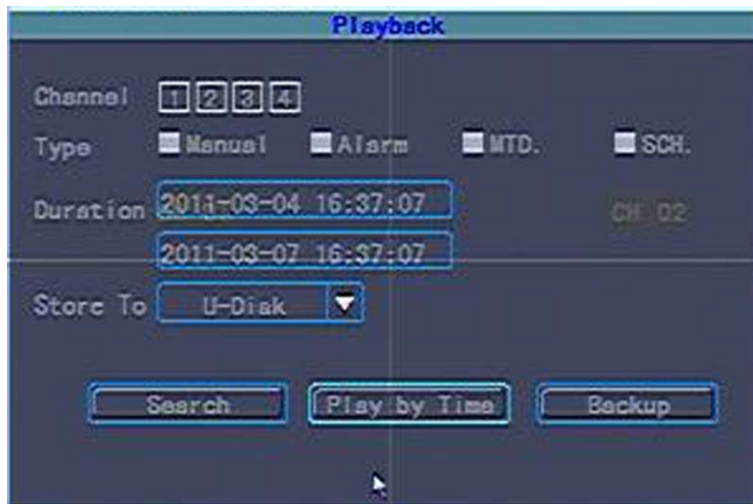
Preview Mode: to select the preview multiple windows.

Shortcut menu: there is Playback, Record by Manual, PTZ control menu.

Main menu: there is Management Tool, System Setting, Log Query and Close System menu.

3.5 Playback

Click Playback to login "PLAYBACK" menu,



3.5.1 Search

Channel: Select the channel you want to search in Selection Box.

Record Mode: select the mode you want, "√" is selected, "□" is not selected.

Time Duration: input the date and time in Edit Box for starting and ending time.

Save Device: select the device want to backup in Selection Box.

File Searching: after setting above, click the "FILE SEARCH" to search the record files and enter the file list menu.

Remarks: If the record files are more than 4000pcs, the system only displays the Max. 4000 files in the list.

Playback by Time: After setting above, press "PLAYBACK BY TIME" to playback the record with the time duration you input. (Including all the event record; for detail setting please reference 3.5.3 chapter.)

Backup by Time: After setting above, click "BACKUP BY TIME" to backup the data with the time duration you input into the Save Device you selected.

3.5.2 Search Result

After set the searching option, click "FILE SEARCH" to enter search result.

Playback: in the file list, use 【↑】, 【↓】 or mouse to select the file and click "ENTER" or click mouse to playback the record file.

Next Page: in the file list, click "NEXT PAGE" to see more record files.

Backup: in the file list, use 【↑】, 【↓】 or mouse to select files, and press "FN" button or click right mouse to backup the data into the device selected in SAVE DEVICE.

Cancel: Cancel and turn back to sub menu.

3.5.3 Playback

After select the file to playback or playback by time, system will enter the playback window,

Playback tool: there's playback tool at below when playback, which could be hidden or show up by mouse right click. When playback in multiple windows, after hidden the playback tool, could be magnify or reduce the video image after click mouse left button.

STOP: Click  to stop the video playback and exit to playback interface.

PAUSE/PLAY: Click  to pause the video play, and click  to playback.

Single Frame Playback: In PAUSE mode, click  to playback in single frame picture; only show one frame after click  one time.

Reverse Playback: Click  for reverse play, and double click to set the reverse speed.

Fast Forward Playback: Click  for fast forward play, and double click to set the fast forward speed.

Up/Next: Click  or  button to see the last or next video; in playback video, click  or  button to reverse or fast forward 10% of video.

Open / Close Sound: Click  or  to open or close the sound when playback the video.

Status Information: There's **Play Speed**, **Play Status**, **Play Time** and **Video Time** information on the right of playback tool.

Exit: Press **【ESC】** button or click  to exit the playback window; After the entire video playback, the system will turn back to playback interface.

3.6 Record by Manual

Click the Record by Manual in Main Menu,



Press **【REC】** button or click the RECORD in main menu to enter record interface.

Record by Manual introduction:



In the Record by Manual interface, there's following information:

Channel: the channel of DVR

Status: show the channel record status, if “●”, it means haven't open record function; if “●”, it means record on open status; if “●●”, it means the channel is transmitting video through internet.
If the system is on recording (no matter what record mode), there's “●” symbol on the left below of preview window.

START ALL: click this button; system will be enabling the entire channel on recording;

STOP ALL: click this button; system will be enabling the entire channel on stop recording.

Exit: click this button to turn back to main menu.

Remarks: after set the record by manual, the system will keep recording until stop record by manual.

3.7 PTZ Control

Click PTZ control to enter the setting interface.



PTZ control operation: Orientation Control, Horizon Scanning, Zoom, Focus, Iris, PTZ Baud Rate. After click SWITCH, there's function: RUN PRESET, OPEN/CLOSE AUTO TOUR, IR CONTROL, WIPER CONTROL and AUX CONTROL.

Note: The preset should be set in advance, please refer to 3.8.2.8 PTZ Setting to set tour route. If the tour number is less 2 digits, please supplement 0 before the relative route number to get 2 digits.

3.8 MAIN MENU

Click MENU to enter the menu page, including TOOLS, SETUP, LOG, and SHUTDOWN.



3.8.1 Tool

There's HDD, User, Default, Clear, Upgrade, Time, Info.



3.8.1.1 HDD

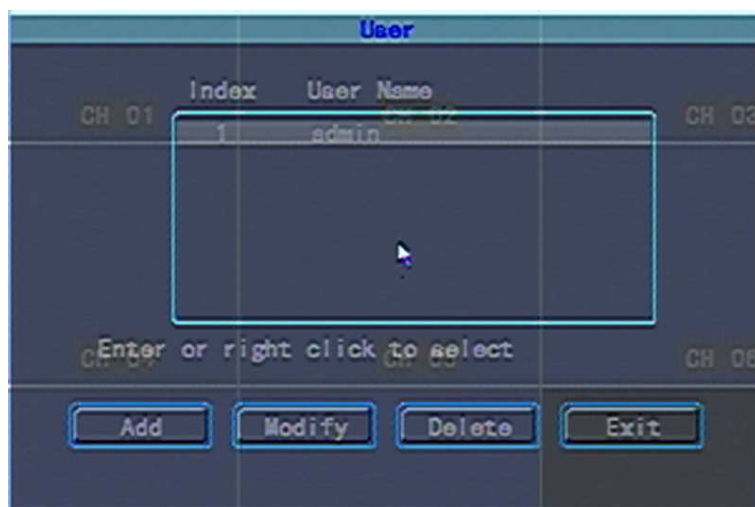
SATA: Display HDD information, “√” means HDD checking is ok, “X” means HDD checking is failing.

HDD Format: choose the HDD and check the information, click FORMAT will show the confirm page, and then click OK to start formatting. HDD can be used normally after formatting.

Remark: All video recording should be stopped before formatting.

3.8.1.2 User

Add new user, delete user and revise user information (except Admin user, other users have no authority)



Add new user

Enter into Administration interface and click “ADD” to add one new user.

1. Input new user name

Input a new user name in the editing column.

Remark: please refer to 3.3.2(4) to operate.

2. Set the password

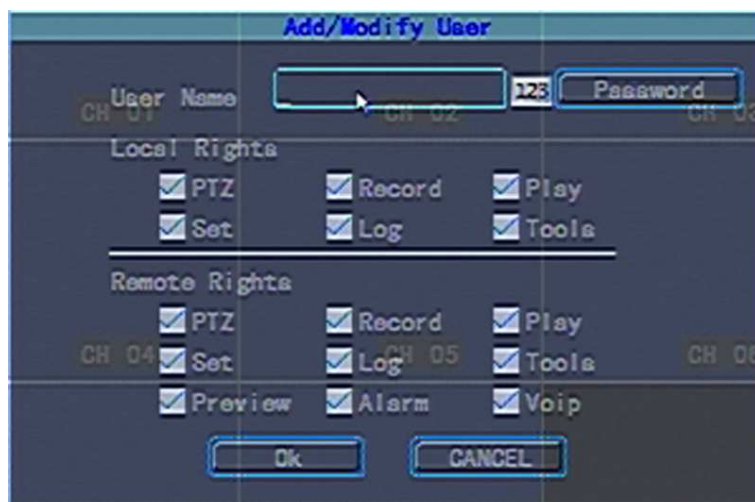
Set “Password” in Administration interface; input the password within six numbers.

3. Set new user authority

Set the authority in Administration interface, can choose the relative function; “√” means user has authority, “□” means user don't have authority.

4. Save new setting

Clicks “OK” to reserve the new setting, “CANCEL” to cancel.



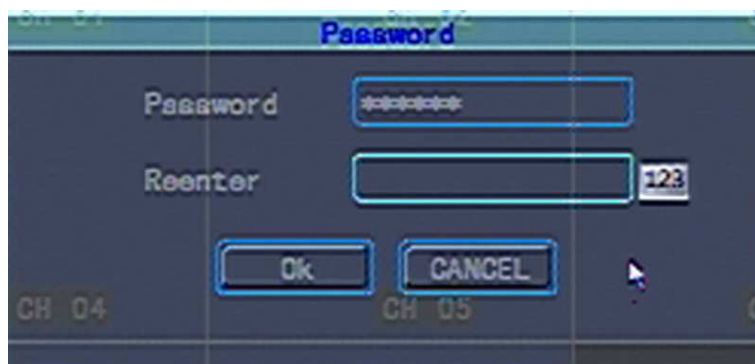
Revise user

Enter Administration interface, choose target user by clicking the right key of mouse or pressing "ENTER" in front plate, then click "Modify" to enter into "Revise User" to amend the user information.

Remark: Admin has the authority to revise user information.

Delete user

Enter Administration interface, choose target user in the list by clicking the right key of mouse or pressing "ENTER" in front plate, then click "DELETE" to delete the user information.



3.8.1.3 Default Setting



Renew system parameter as the factory setting, system will startup when it is complete.

3.8.1.4 Alarm Clear



Clear all alarm information manually. System will display “Clear Finish” notice then go back to tool page.

3.8.1.5 Upgrade



Choose “Upgrade” in Tool interface then enter into upgrade interface.



Choose the target device; as usual we only suggest select “Main board”. Then choose upgrade method: **FTP or USB.**

USB: copy the upgrade file into USB disk, then insert USB disk to DVR, and click Confirm to upgrade.

FTP: copy the upgrade file into FTP server and set IP address of server as a fixed address, then click Confirm to

upgrade.

The system will startup after upgrade completes.

Remark: the main board upgrade file name should be amended as “mainboard.bin”, panel upgrade file should be amended as “panel. Bin”. To avoid any equipment damage, DO NOT cut off power supply when system is upgrading.

3.8.1.6 Time Setting

Enter Date setting page, input exact date and time in edit columns, confirm to SAVE, or CANCEL to exit.



3.8.1.7 System Info. (It is subject to original equipment)



There is Device Name, Model, Version Number, and EMI.

3.8.2 System setup



Choose SETUP in main menu to enter the submenu.



3.8.2.1 System

Choose "System" to operate system setting,



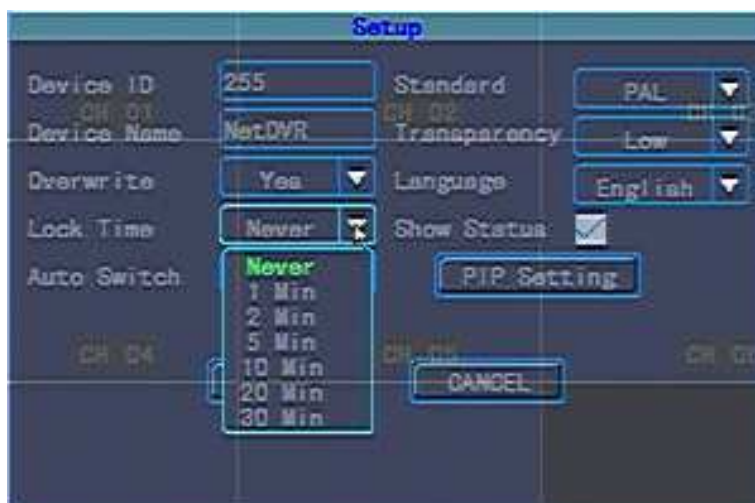
Device ID: Under remote control, the unit number should be match with remote controller due to the telecom protocol signal is through unit number and remote control matching. At present, this function is unavailable.

Device Name: The unit name is defined as surveillance place name generally; in this case, it is easy to find the surveillance place during internet viewing. The default name is "NetDVR". Please refer to 3.3.2 (4) for detail.

Overwrite: Choose "YES", when the HDD capacity is full, system will cover the earliest video files automatically to make sure to record circularly.



Lock time: If system hasn't been operated during the keyboard lock time, then system will cancel the user automatically; only login again to operate the system.



Auto switch: It is a circle time period of single channel preview.



Standard: This unit supports PAL&NTSC video output, PAL is the default output. Choose PAL or NTSC in TV system column, system will startup after save the setting.

Transparency: After enter the menu; user can adjust the transparency level to realize the transparency between preview scene and menu



Language: According to users' demand to set language such as Chinese, English, German, etc.



Show Status: To set the icon is displaying of recording, status and motion detection in preview window or not; “√” is display; “□” is no display.

Icon description in preview scene:

“” System is recording (no matter what mode of record)

“” Schedule recording

“” Manual recording

“” Motion detection

“” Motion detection recording

When setting is finished, click “SAVE” to reserve and exit, click “CANCEL” to exit without any reserve.

PIP setting: Only support 9504/9508 series DVR.



In PIP setting interface, could be set main picture, second picture1, second picture2, then click “SAVE” to reserve and exit; click “CANCEL” to exit without any reserve.

3.8.2.2 Record

Choose "Record" to the record setting interface.



Channel: Choose the channel to be setting.



Stream: There're two streams, Main and Sub.



Stream (under channel): Choose streaming type to record, "Video" is system only processing video when record; while "A/V" is system processing video and audio streaming when record.



CBR/VBR: User can select “CBR” and “VBR”, “CBR” means system will process the images through the Bit Rate and video frame as user set; “VBR” means system will process the images through image quality and video frame as user set, but the bit rate will be adjusted automatically by system as the video scene changing.



Max Bitrate: Set the bit rate on demand. The higher of bit rate, the better quality of picture is, but will occupy more HDD capacity as well.



Frame Rate: Set the video frame on demand. The higher the frame is, the smoother the picture is, but will occupy more HDD capacity as well.



Quality: Select the image quality.



Resolution: Select the record resolution, there're CIF and D1 to be selected.

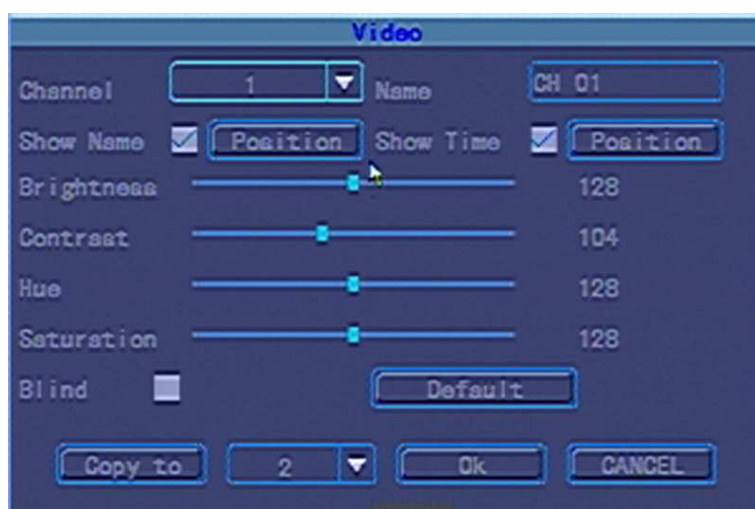


Copy to: Choose the channel in the column next to "Copy to", then click "Copy to", the system will apply the present channel parameter to other channels. After setting, click "OK" to reserve and exit; or click "CANCEL" to exit without any reserve.



3.8.2.3 Video

Choose "Video" in system menu interface.



Channel: Choose the channel to be set.

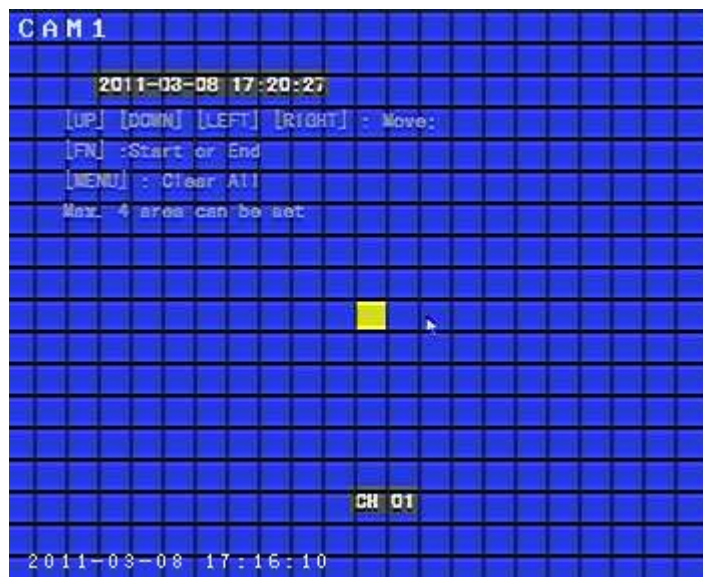
Name: Could edit channel name, please refer to 3.3.2(4) to operate.

Show Name: "√" means Displaying the channel name; "□" means DO NOT Displaying; click "Position" to display the channel name on preview window which is set by direction button in front panel or dragging mouse in red channel, then press "ENTER" or right click of the mouse to reserve and exit; press "ESC" exit without any reserve.

Video Parameter: to the **Brightness, Contract, Hue and Saturation** of channel image through 【↑】 , 【↓】 in panel or the mouse to control.

Default Setting: Renew image parameter to the default setting by clicking this button. (Only renew with image parameter)

Blind: Click "√" in "Blind" column to activate "AREA" of camera mask, then enters the mask setting interface.



Set Mask Area: In Mask setting area, there's a mask setting grid with yellow color in the middle.

New mask area: move yellow grid to the area to be set by direction button in front panel or mouse, then press **【OK】** (switch Yellow grid to Red) to switch to RED grids (Red grid is effective setting of mask); Press direction button to set the scope, the smallest is only one grid, and could be set up to 4 areas of mask area; Click mouse left or hold the mouse left button to select the grids by mouse control. After setting, press "ENTER" button or click mouse to save and exit; or press "ESC" button exit without any reserve.

Partial demolish: Move the yellow grid to demolished area(top left), press **【OK】** to change black grids(demolished grids) to demolish. After clearing, press **【ENTER】** to reserve and exit; or press **【ESC】** to exit without any reserve. Moreover, click mouse left key or hold the left key in red grids to demolish, and click mouse to reserve and exit.

Clear all: Press **【CH2】** to clear all mask area in this channel.

Copy to: Choose target channel in the column next to "Copy to" column, click "Copy to", and the system will apply the present channel parameter to other channels. Remark: channel name can not be copied. After setting, click "SAVE" to reserve and exit; click "CANCEL" to exit without any reserve.

3.8.2.4 Alarm Input



Input: Choose the channel to be setting.

Type: High voltage and low voltage are available; please choose suitable level for the alarm device connected the relative alarm input channel.

Detect: To set the scanning of alarm input single is available or not, choose “YES” to active, “NO” is disable.

PTZ: Click “SET” to enter PTZ linkage interface, choose the channel and set the relative setting of PTZ, such as Preset, Tour and track. Please refer to 3.8.2.8 to set PTZ.

Duration: When alarm is finished, set the delay time of alarm, like 5seconds, 10seconds, 30seconds, and 1minute.

Buzzer: To set the trigger buzzer to alarm, “√” means enable, “□” means disable.

Record Channel: To set the channel in record when alarm is trigger.

Alarm output: To set the alarm channel to output when alarm is trigger.

Copy to: Choose the channel in the column next to “Copy to”, click “Copy to” button, and the system will apply the present channel parameter to other channels. After setting, click “SAVE” to reserve and exit; click “CANCEL” to exit without any reserve.

3.8.2.5 Alarm Output

In the system setting interface, choose ALARMOUT,



Alarm Output: Select the channel to be output.

Type: “ON” and “OFF”

Email: Input the email address which is sent out the alarm snap pictures when the alarm is trigged.

Password: Input the password of email account.

SMTP Sever: Input the SMTP of email provider.

3.8.2.6 Record Schedule

In system setting interface, choose Schedule as below:



Channel: select the channel to be set.

Week: choose the day in a week, which could be set respectively; "ALL" means all the days in one week.

Record Time and Duration: there're four duration, each period can be set different record mode, such as Schedule Record(Red), Motion Detection record(Green), Alarm Record(Yellow). "√" means enabled, "□" means disable. There is a time status displaying the whole schedule from 0 to 24hrs.

Copy To: Choose the channel in the column next to "Copy to", click "Copy to" button, and the system will apply the present channel parameter to other channels. After setting, click "SAVE" to reserve and exit; click "CANCEL" to exit without any reserve.

3.8.2.7 Motion Detection

In the System Settings screen, select MOTION DETECTION to enter the setting interface.



Channel: select the channel to be set.

Type: Motion detection and video loss are selectable.

Rec. Channel: select the channel to record when the motion detection is trigger.

Alarm Output: select the channel for alarm output when the motion detection is trigger.

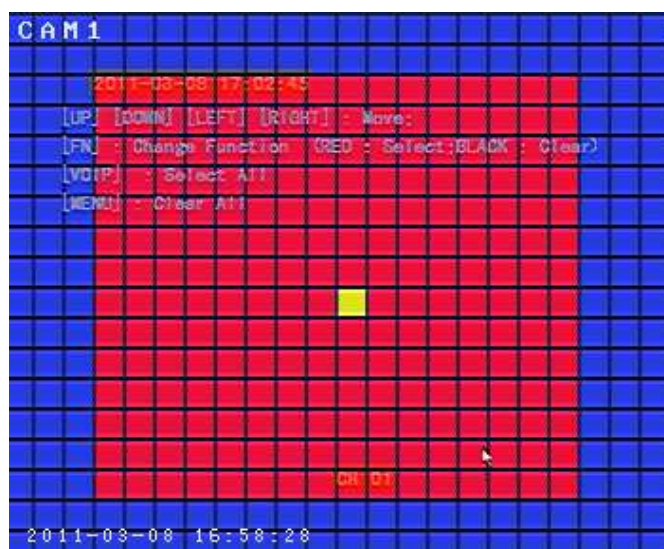
Buzzer: To set the trigger buzzer to alarm, "√" means enable, "□" means disable.

Sensi.: To select the sensitivity of motion detection.

Area: To set the motion detection area.

Duration: When motion detection is finished, set the delay time of setting.

Send Email: If click "√" to enable this function, the system will send email of alarm snap pictures when triggered alarm.



New mask area: move yellow grid to the area to be set by direction button in front panel or mouse, then press **【OK】** (switch Yellow grid to Red) to switch to RED grids (Red grid is effective setting of mask); Press direction button to set the scope, the smallest is only one grid, and could be set up to 4 areas of mask area; Click mouse left or hold the mouse left button to select the grids by mouse control. After setting, press “ENTER” button or click mouse to save and exit; or press “ESC” button exit without any reserve.

Partial demolish: Move the yellow grid to demolished area(top left), press **【OK】** to change black grids(demolished grids) to demolish. After clearing, press **【ENTER】** to reserve and exit; or press **【ESC】** to exit without any reserve. Moreover, click mouse left key or hold the left key in red grids to demolish, and click mouse to reserve and exit.

Clear all: Press **【CH2】** to clear all mask area in this channel.

Copy to: Choose target channel in the column next to “Copy to” column, click “Copy to”, and the system will apply the present channel parameter to other channels. After setting, click “SAVE” to reserve and exit; click “CANCEL” to exit without any reserve.

3.8.2.8 PTZ Setup

In the System Settings screen, select PTZ SETUP to enter the setting interface:



Channel: select the channel to be set.

Baud Rate: select the different baud rate for your PTZ, there are 1200, 2400, 4800, and 9600.

Data Bit: there are 5,6,7,8 options to select, default setting is 8.

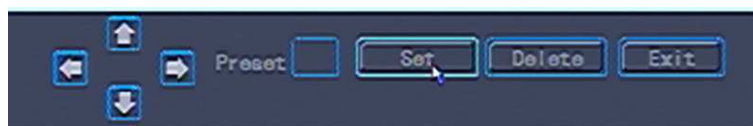
Stop Bit: 1 and 2 are optional, the default setting is 1.

Checksum: there is None/Odd/Even/Mark/Space to select, the default setting is none.

Flow Control: Select the fluid control of different PTZ.

Protocol: select the protocol of different PTZ, there are two protocols to switch, and the default is Pelco-D.

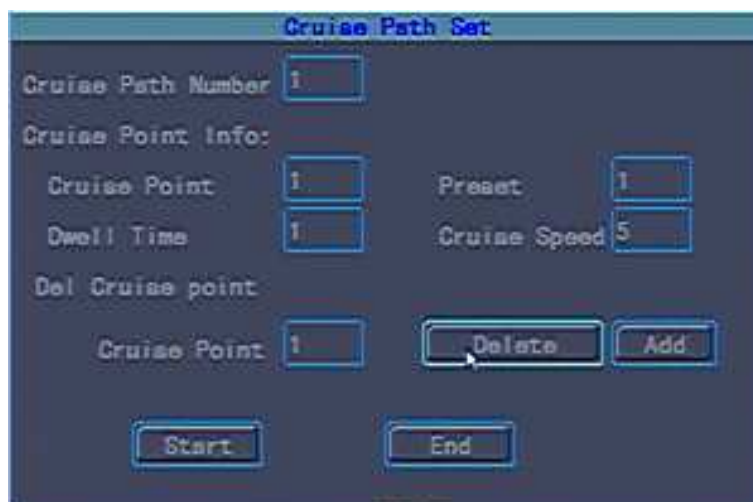
Decoder: Fill the nominated code address of PTZ.



Preset: To set the camera angel, Focus, Zoom and Iris in pre-set and save the parameter with specified number for symbol.

Set: input one number with range 1-128 into the blank of preset, and adjust the angel camera through direction button, after setting press OK and exit.

Delete: input the specified number of preset you set before in the blank and press DELETE.



Cruise Path setup: the cruise of PTZ camera is run with specific speed through specific tour route which is pre-set the PTZ preset position with serial number; each cruise point is setting with preset serial number and residence time. So the tour route setting is including tour stop, preset, and residence time and tour running speed in Tour Route setup interface. One device only support up to 16 tour route settings.

Path Setup: It is a path to record the preset random motion of the camera, select SETUP to set the path.

Copy to: Choose target channel in the column next to "Copy to" column, click "Copy to", and the system will apply the present channel parameter to other channels. After setting, click "SAVE" to reserve and exit; click "CANCEL" to exit without any reserve.

3.8.2.9 Network

In System Settings menu, select NETWORK to enter the setting interface. There is LAN, PPPOE, DDNS three options.



LAN: In NETWORK SETUP menu, select LAN to enter into the interface as followings:



MAC: the physical address (MAC) of the DVR.

DHCP: select DHCP to identify the IP automatically or not.

IP address: the IP address should be unique for DVR, which should not conflict with other host or workstation in LAN.

Net Mask: It is used for dividing the subnets.

Gateway: It is required to achieve communication between the different segments.

DNS Address: when device is connected the internet through PPOE, it will obtain a dynamic IP address.

Dev Port: this is Device port, which is also called media port, must be set ≥ 2000

HTTP Port: the default port is 80 under accessing by IE browser.

Mobile Port: input the mobile phone port to achieve mobile phone surveillance.

After setting, click "OK" to reserve and exit; click "CANCEL" to exit without any reserve.

PPPOE: In NETWORK SETUP screen, select PPPOE to enter the interface as following:

Enable: "√" means enable PPPoE to dial-up, "□" means disable.

Username & Password: input the username and password supplied by ISP. Editing method please refer to chapter 3.3.2(4).

After setting, click "OK" to reserve and exit; click "CANCEL" to exit without any reserve.

DDNS: In NETWORK SETUP screen, select DDNS to enter the interface as following:

Enable: "√" means enable DDNS setting, "□" means disable.

Select the dynamic domain suppliers and input the username and password from DDNS supplier. Editing

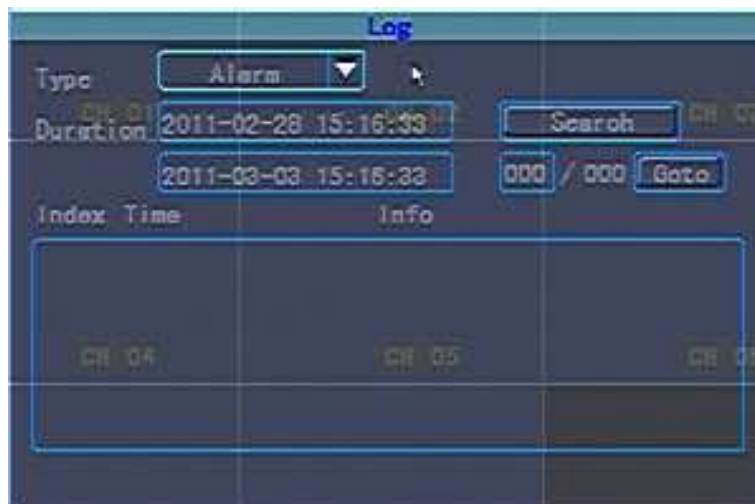
method please refer to chapter 3.3.2(4).

After setting, click "OK" to reserve and exit; click "CANCEL" to exit without any reserve.

3.8.3 LOG Information



In the MAIN MENU, select LOG to enter the following interface:



Type: select LOG TYPE to look up.

Duration: input day and time duration in edit box, click SEARCH; the corresponding log information will be listed below. Type the target page and click "ENTER" or scroll the mouse to view page by page.

3.8.4 Shutdown System

(Only support H9516 series DVR)



In the MAIN MENU page, select SHUTDOWN SYSTEM to enter the following interface:



Logout: to active to logout the system of current user. If the user wants to use, need to login again.

Restart: to restart the DVR.

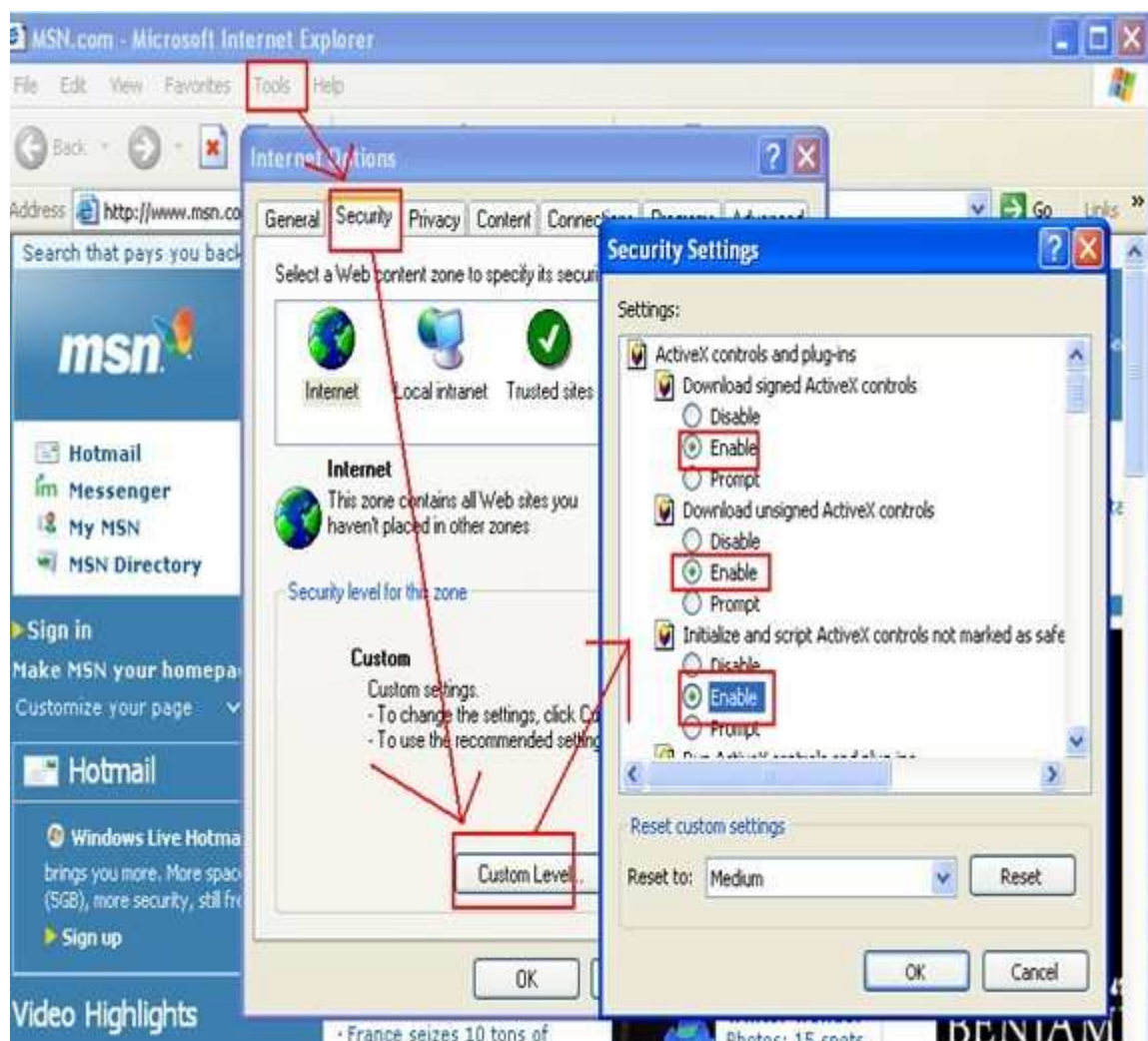
Shutdown system: to turn off the device and power off.

Chapter 4 IE Remote Access Instructions

Setup under accessing by PC:

1. IE browser setup: when first using, the Active control can not be loaded. It needs to setup the IE as below:

Internet→Security-internet→ custom option→ActiveX (set all the ActiveX in ENABLE and plug-in options)



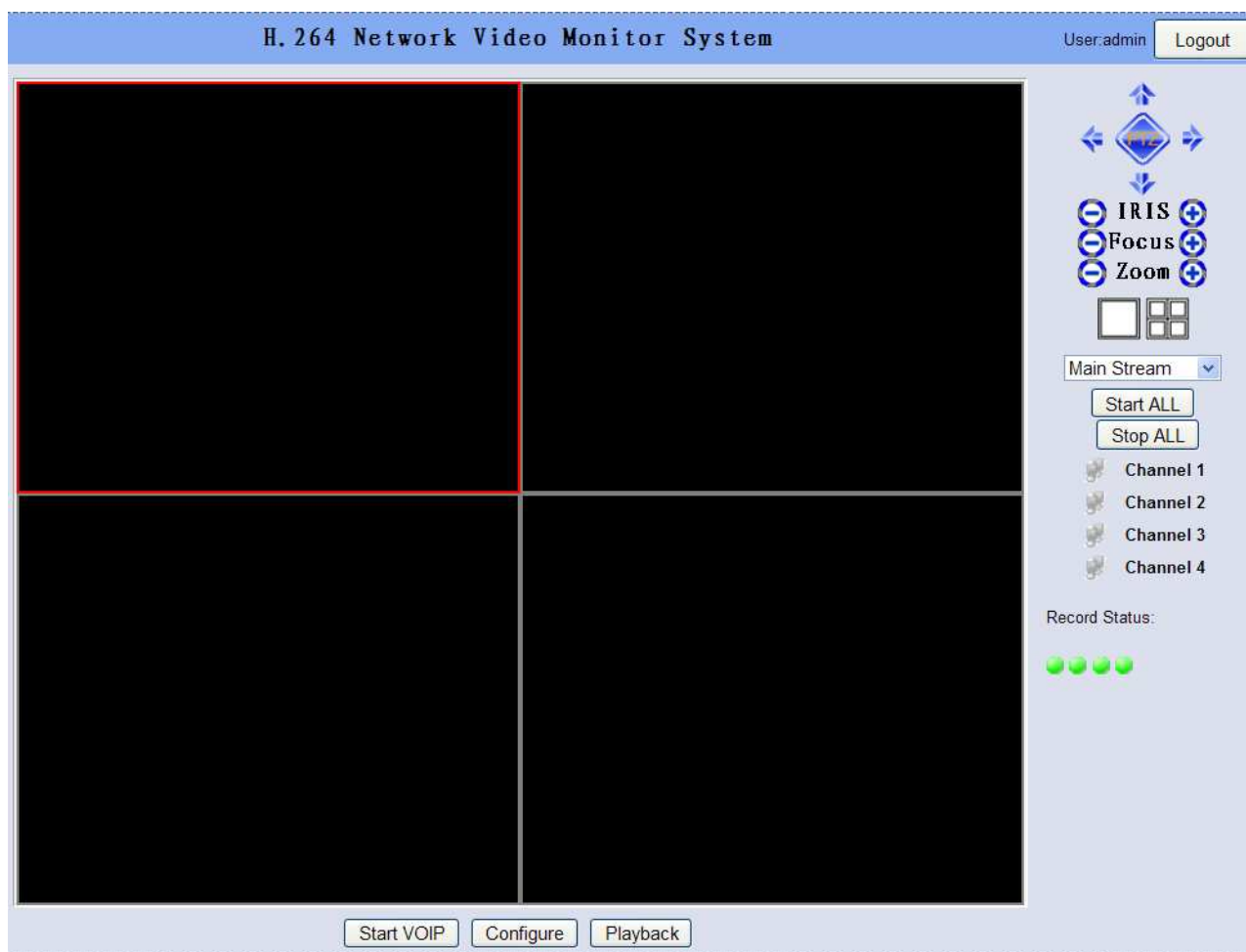
Login: Open IE and input the IP address of DVR (i.e.: default IP: http://192.168.1.23), enter the login interfaces below (login interface subject to the device), input the username and password which is in accordance with the device, then access successfully.

User Name	admin
Password	
Network	Lan Lan Wan
OK CANCEL	

If plugin is not installed automatically, please download the [package](#) and install it manually.

4.1 Live Demo Interface

Live Demo interface includes preview window, PTZ control, Quad, Stream option, Channel, Intercom, Configuration, Playback and Logout, as below:



Preview: Click the target channel (red means selected) in the preview window, then double click the corresponding channel in the Channel Frame, it can close or open the video of channel which is selected in the

preview window.  shows open,  shows close.

Click the “all open” or “all stop” could control all the channels showed in the preview window.

Quad: click  or double click the preview window to switch single or multi channel to view.

4.2 Stream

This DVR support dual stream, select the stream mode in the selection box.

4.3 PTZ Control

- A.  PTZ control button to control up, down, left and right by the arrow keys.
- B. Focus button to increase or decrease the PTZ focus.
- C. Iris button to adjust the PTZ iris length.
- D. Location button to control the position of PTZ.

4.4 Advanced Setup

When the preview is enabled, advanced setup will be activated by clicking the right button of mouse and the corresponding channel in the preview window will be set up:

Open/Close Volume: Press this button to open/close the volume.

Snap: Press this button to snap the video and save as a picture. The saving folder setting please reference 1.5.5 Record Snap setting.

Record: Press this button to record in long distance and save. The saving folder setting please reference 1.5.5 Record Snap setting.

PTZ Control: To set the preset, tour route and path of PTZ. The detail setting please refers to 3.8.2.8 PTZ control.

OSD Setting: To set the channel of OSD, time display position, use mouse to locate the position and save.

Motion Detection: To set the motion detection area. First click “√” to show the motion detection area; select “Create Area” and then hold the mouse left to select the area to be set; select “Clear Area” and then hold the mouse left to clear the selected area. And set the Sensitivity and Output delay option.

Color: To set the Brightness, Comparison, Color and Saturation of image, use mouse left to set and save and exit.

4.5 START VOIP

Click the START VOIP to set the intercom in enable or disable.

4.6 Configuration

4.6.1 Configure of Server

In this interface, to set the relevant parameter in host. The parameter should be the same with the host. Please refer to setting of Host system, system information and Network for guard line and Notice. The detail please references the chapter 3.

4.6.2 Channel Setup

In this setup interface to set the DVR device parameter, like record, PTZ control. This parameter must be the same with the setting in DVR, the detail setting, please reference the DVR system setup, like record, image setting, and PTZ control.

4.6.3 Alarm Setup

The screenshot shows the 'Settings' window with the 'AlarmParam' tab selected. The interface is divided into several sections:

- Alarm input:** Contains 'AlarmIn ID' (set to 1), 'AlarmType' (set to Low), 'AlarmInput' (checkbox), 'Video Lost' (Set button), and 'Blind Alarm' (Set button).
- PTZLinkage:** Contains 'LinkageID' (set to 1), 'Enable Preset' (checkbox), 'PreSetPoint' (set to 1), 'Enable Cruise' (checkbox), 'CruiseNum' (set to 1), and 'Enable Track' (checkbox).
- Alarm output:** Contains 'AlarmOut ID' (set to 1) and 'AlarmType' (set to Normal Open).
- AlarmNotice:** Contains 'UserName', 'Pass Word', 'SMTPServer', and 'SMTP Port' (set to 0).

At the bottom right, there are 'OK', 'Cancel', and 'Quit' buttons.

In this setup interface to set the alarm parameter, which must be the same with the setting in DVR, the detail setup, please reference the alarm setting in system setup.

4.6.4 User Setup

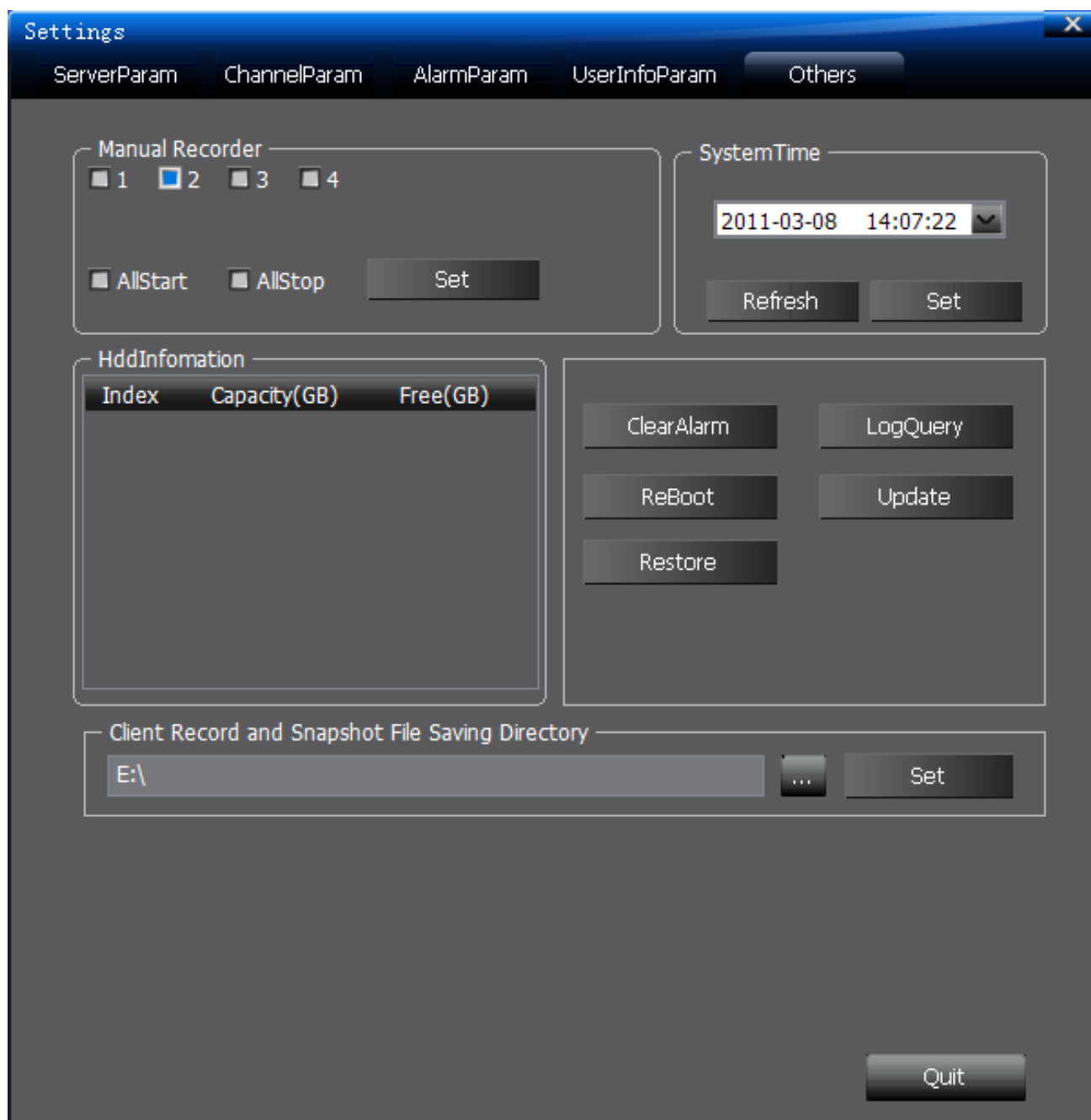
The screenshot shows the 'Settings' window with the 'UserInfoParam' tab selected. The interface includes:

- User ID:** A dropdown menu set to 1, with a 'Del User' button next to it.
- UserName:** A text field containing 'admin'.
- Password:** A text field.
- Confirm:** A text field.
- Remote Right:** A section with checkboxes for 'Ptz Ctrl', 'Record', 'PlayBack', 'SetParam', 'Log', 'Tool', 'Preview', 'Alarm', and 'VOIP'.
- Local Right:** A section with checkboxes for 'Ptz Ctrl', 'Record', 'PlayBack', 'SetParam', 'Log', and 'Tool'.

At the bottom right, there are 'OK', 'Cancel', and 'Quit' buttons.

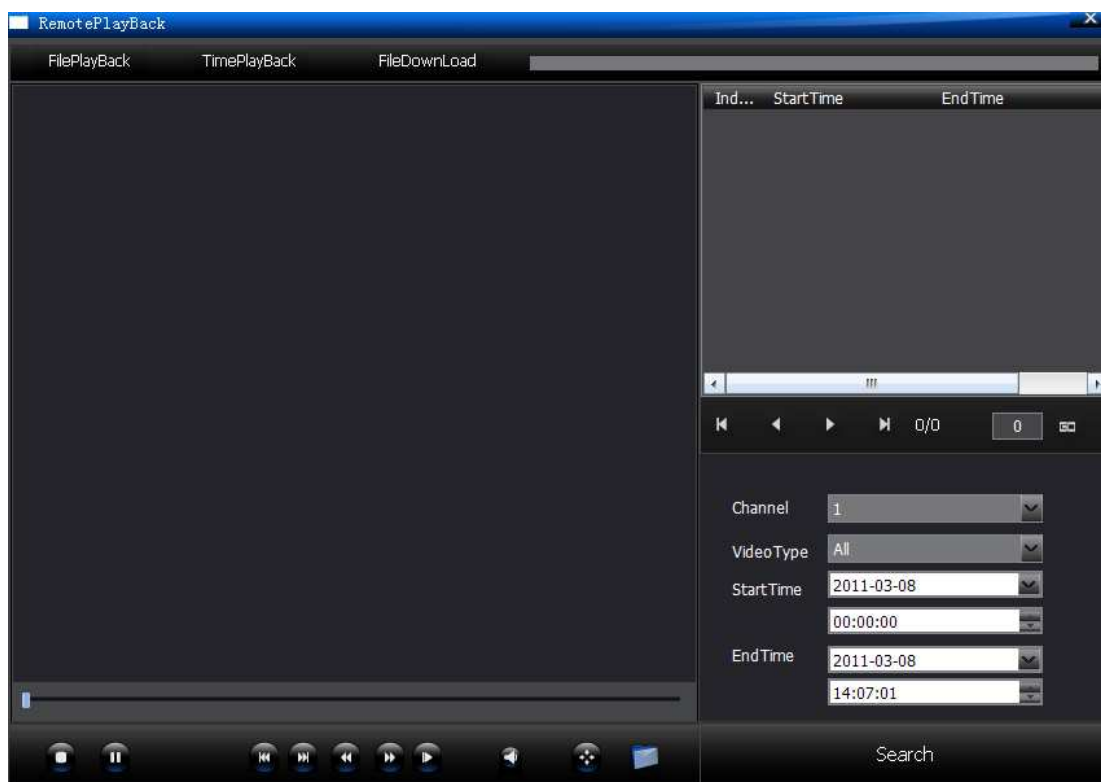
In this setup interface to set the user group, which must be the same with setting DVR, the detail setting, please reference user setting in system setup.

4.6.5 Other



In this setting interface to set the DVR relative parameter, like record by manual, date and time, HDD management, alarm clear, log information, software upgrade, etc. And select the save path of record in computer.

4.7 Playback



Select the channel, record type and search by date and time, then there's file list to show. You could input the page number or search by NEXT or PRE to see the record file list. (There're 20 files in one page, which support max. 4000 file list.)

Playback: Select the file in the list, double click or click "PLAYBACK" to playback the record which will show the image on the right window.

Playback by Time: Click "Play by Time" to playback the record by time duration.

Download: Select the file in the list and click "DOWNLOAD" to save in computer.

Chapter 5 Device Environment

In order to make the DVR in long running and safe using, before install the DVR, please consider the following attention:

1. When install and operate the DVR, apply with the electrical standard request and connection requirement.
2. Make sure the power supply is connected to ground.
 - . Do not touch the power supply adaptor and DVR in wet.
 - Do not drop the liquid onto the DVR device in order to avoid short circuit inside.
 - Do not lay on other heavy subjects to DVR.
 - Clear the DVR with soft cloth, and do not use chemical solvent.
 - If the DVR power supply and connection is correct, and the DVR is not able to start, it maybe the problem of voltage, make sure the voltage is normal.
 - If the DVR will be rest in long time, it's better to cut off the power supply and plug off the adaptor.

Chapter 6 Device Part

Check Device Component

1. Digital Video Recorder 1 SET



2. Standard Part

			
Power Cord	Power Adaptor	User Manual	CD-ROM
			
Catalogue	Screw	Battery	

3. Optional Part

		
wireless antenna	one to four DC power line	500G SATA HDD
		
USB Mouse	Remote Controller	

keep the card for
guarantee
to keep in repair

Guarantee

Guarantee Item

1. 3months upon date of purchase: if there is function problem, we should offer the same item subject to goods and packing maintain perfect
2. 1 year upon date of purchase: we will guarantee to keep the goods in repair.(not including fittings)
3. Guarantee service is subject to normally using
4. All of damages by man-made(tearing open the housing, tearing off the sticker, un normally using), or
losing this card, will not be guarantee

User File

User name		Sex		Age	
Address					
Telephone				Zip	
Purchasing Address					
Retail price			Order No.		
Commodity name and specification			Model No.		
Dealer signature			User signature		