

# USER MANUAL

DVR

Digital Video Recorder

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# Safety Instruction

## 1. Read Instruction

All the safety and operating instruction should be read before the equipment is operated.

## 2. Power sources

This equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your equipment dealer.

## 3. Objects and Liquid

Never push objects of any kind through openings of this equipment and / or spill liquid of any kind on the equipment as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock.

## 4. Water and / or Moisture

Do not use this equipment near water or in contact with water.

## 5. Heat sources

Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifier) that produce heat.

## 6. Cleaning

Unplug this equipment from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

## 7. Lightning

Unplug this equipment during lightning storm or when unused for long periods of time.

## 8. Accessories

Do not place this equipment on an unstable cart, stand or table. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.

## 9. Moving

Disconnect the power before moving the equipment. And the equipment should be moved with care.

## 10. Attachment

Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock and other personal injury.

## 11. Correct Batteries

Risk of explosion occurs if battery is replaced by an incorrect type. Therefore you must use the same type of battery as the one being used in the product.

## 12. Ventilation.

Do not block any ventilation openings, installation of the equipment in the rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

## 13. Overloading

Do not overload wall outlets and extension cords to avoid the risk of fire or electric shock.

## 14. Reliable Earthlings (Grounding)

Reliable grounding of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit.

# Chapter 1: DVR Features

Function	Brief and Description
Real time monitoring	Single video output; with monitor, VGA virtual output port; Support net-viewer and MP live surveillance, ZOOM IN/OUT, dwell time display and PIP display.
Recording	H.264 video compression format; recording quality optional, multiple recording modes (Always, Scheduled, Manual, Alarm, Motion detection and remote recording.)
Save Recordings	Support SATA large capacity HDD and save real-time recording image to HDD.
Playback Recordings	Supports DVR single CH and multiple CH playback of recorded files
Backup Recordings	Supports DVR backup via USB flash drive, removable drive, Recorder and network.
Alarm Setting	Supports HDD & video input alarm management and external alarm signal inputs
Network operation	Supports remote surveillance by multiple users simultaneously.
Mouse Operation	Supports Mouse operation for faster menu navigation.
PTZ Control	Supports PTZ camera operations through RS-485.

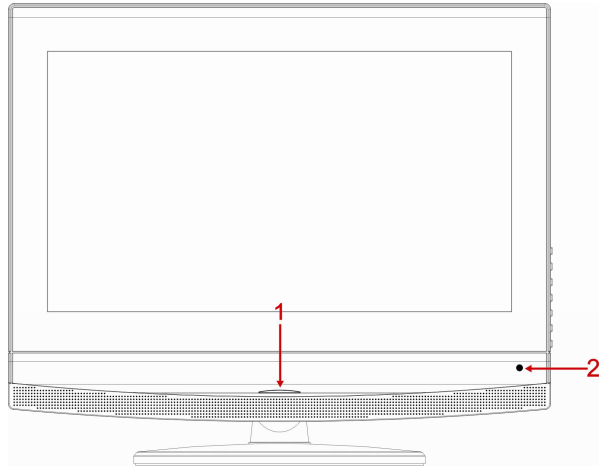
List 1-1

## Other Features :

- ☞ H. 264 video compression format; supports D1/HD1/CIF resolution;
- ☞ ADPCM audio compression format
- ☞ Windows Graphical interface; built-in real-time Linux2.6 operation system.
- ☞ Friendly Menu reminder.
- ☞ Multiple operation (Preview, recording, playback, backup, network surveillance and mobile phone monitoring at the same time)
- ☞ Supports Double Encode bit network transmission
- ☞ Supports remote live viewing via 3G mobile networks
- ☞ Supports zoom in / out and dwell time display
- ☞ The video package time is adjustable
- ☞ Multiple alarm record mode
- ☞ Rear USB2.0 ports for back-up, upgrade and mouse operation.
- ☞ With IR remote control operation
- ☞ Multiple language OSD
- ☞ Supports auto maintenance

# Chapter 2: Layout

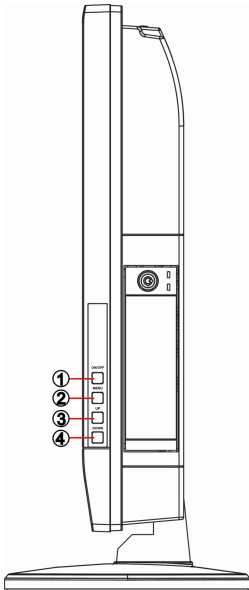
## 2.1 Front Panel (Only for reference)



Item	Type	Key title /Indicator	Marks	Function
1	Indicator	HDD indicator	HDD	When the "Red" indicator flashes it means the hard drive is being read or written to.
		Power indicator	PWR	If the "Green" indicator is on the system is getting power normally
2	IR Receiver		●	Receive infrared remote control signal

List 2-1

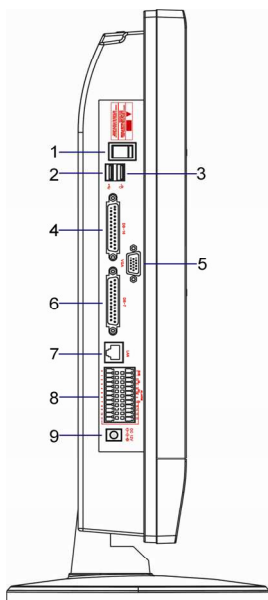
## 2.2 Side Panel(Only for reference)



Item	Marks	Function
1	ON/OFF	The button allows you open/close the screen.
2	MENU	The button allows you adjust parameters and switch menu.
3	UP	The buttons allow you change parameter values.
4	DOWN	

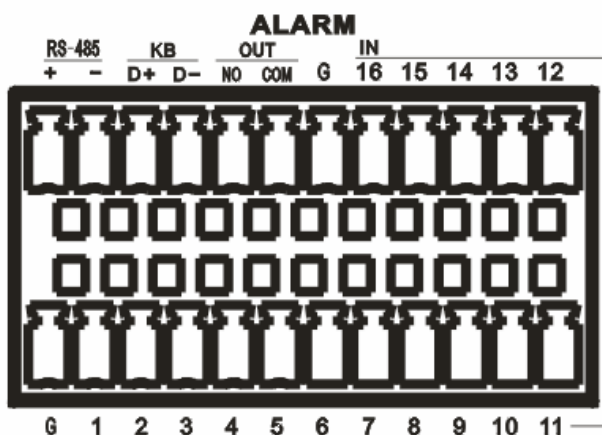
List 2-2

## 2.3 Rear Panel(Only for reference)



Item	Physical port	Connection method
1	Power Switch	Turn Power On And Off
2	USB Port	Connect USB device (Flash Drive, Hard Drive and Recorder)
3	Mouse Port	Connect USB mouse
4	DB-16	1~16 Video Output
5	VGA Port	Connect To VGA Monitor,Such As PC Monitor
6	DB-7	DB-7 Jacket
7	LAN Port	LAN Input
8	RS-485/Sensor/Alarm	RS485/Sensor/Alarm interface (see pin outs below)
9	Power Port	Connect Power Supply –DC 12V 6A

### RS485/Sensor/Alarm port functions:

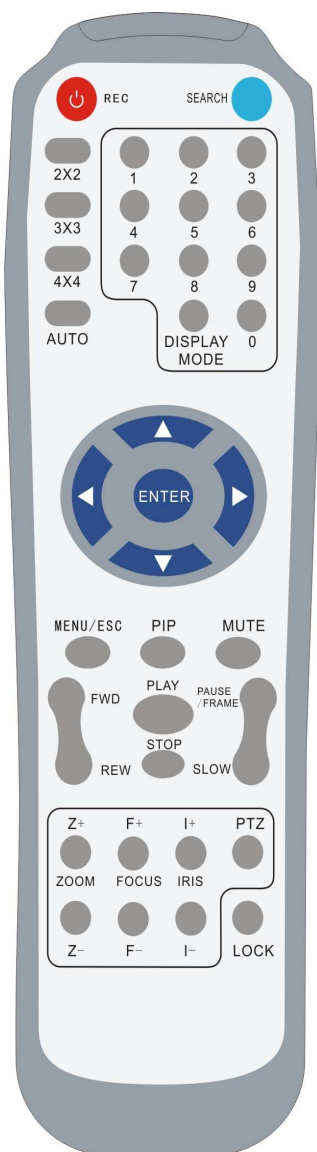


**Alarm input:** Connect [-] port of your sensor to G (GND) pin, and [+] port to channel input you want to set.

**Alarm output:** indicate the two ports marked “out”.

**PTZ Port :** Connect your camera to RS-485A and RS485B accordingly.

## 2.4 Remote Control




Key Title	Key Function
<b>REC</b>	Manual recording
<b>SEARCH</b>	Enter into recording search menu
<b>2×2</b>	Quad display
<b>3×3</b>	9-CH display
<b>4×4</b>	16-CH display
<b>AUTO</b>	Dwell time display
<b>0~9</b>	Channel select; numeric key
<b>DISPLAY MODE</b>	Multiple CH display (Quad, 9-CH, 16-CH and single channel display )
<b>▲</b>	UP
<b>▼</b>	DOWN
<b>◀ / ▶</b>	Left/right key
<b>ENTER</b>	Select / Edit key; Enter key
<b>Menu/ESC</b>	Enter into main menu / Exit
<b>PIP</b>	PIP display mode
<b>MUTE</b>	Mute key
<b>FWD</b>	Forward ( x2、 x4、 x8 )
<b>REW</b>	Rewind ( x2、 x4、 x8 )
<b>PLAY</b>	Enter into recording search, play recording event
<b>STOP</b>	Manual stopping play
<b>PAUSE/ FRAME</b>	Pause / play frame by frame
<b>SLOW</b>	( 1/2、 1/4、 1/8 ) Slow play
<b>Z+</b>	Zoom out video area
<b>Z-</b>	Zoom in video area
<b>F+</b>	Extend focus
<b>F-</b>	Extend focus
<b>I+</b>	Add PTZ brightness
<b>I-</b>	Decrease PTZ brightness
<b>PTZ</b>	Allow you set presetting bit and control PTZ.
<b>LOCK</b>	Lock system

List 2-4



## Mouse Operation

You can also perform system operation by using a mouse except for Front panel and Remote Controller.

TYPE	Function
Click left key of Mouse	In menu lock mode, Enter into pop-up menu and clicking any sub menu to pop up Log-in window; on menu unlock mode, enter into pop-up menu, and then clicking left key to enter into any sub menu directly.
	After entering main menu, clicking left key could enter into any sub menu; On[Detailed file] menu mode, clicking left key could playback one recording file.
	Change the status of check box and motion detection area.
	Clicking combo box to access pull-down menu; Click left key to stop dwell time display when dwell time display is "ON"
	By clicking left key you can adjust Color control bar and volume control bar.
	Clicking combo box to access pull-down menu
	By clicking left key you can select values in edit boxes or pull-down menu and supports Chinese word input, special symbol, numeric and character input, use instead of [Enter-  Click right key of Mouse
In Main menu or sub menu mode, clicking right key will exit current menu.	
Double-click Left key of Mouse	In live display or playback mode, double-clicking left key will maximize the screen.
Moving Mouse	Select menu item
Sliding Mouse	On motion mode, sliding mouse will select motion area; On [Color set] menu mode, sliding mouse will adjust color control bar and volume control bar.

List 2-5

## Chapter3 Connecting DVR

### 3.1 HDD installation

**Caution:** Please do not Install or take out hard drive when DVR is running!

The model has a HDD drawer. Please use provided key to take out the HDD drawer and put HDD into the drawer correctly.

Please follow the below steps to install the HDD:

1. Loosen the screw from upper cover and remove the upper cover and LCD on the power break mode;
2. Insert data cord and power cable into HDD securely;
3. Fix the HDD on the rack;
4. Put the upper cover and LCD back carefully, re-attach screws.

### 3.2 Camera and Monitor Connection

Connect camera cable to video input of DVR, and from video output of DVR to Monitor via BNC connector (Refer to section2.3-Rear Panel); or

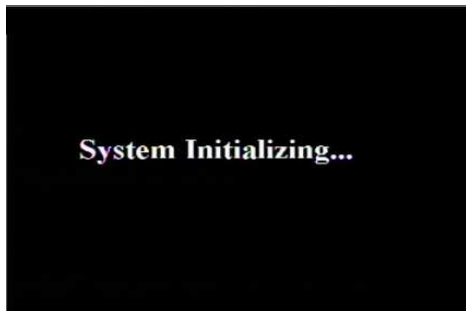
If the camera is a PTZ speed dome, you could connect RS485 A & B to the according port of DVR respectively (refer to system figuration on Chapter 8).

### 3.3 Power Supply connection

Please only use the power adapter supplied with the [DVR](#).

## Chapter 4: DVR Boot up

### 4.1 System Initialization



Picture 4-1

Connect the power cable of DVR to power supply and press the [Power] button, you will see the initialization screen shown as Picture 4-1.

### 4.2 Main Interface



Picture 4-2

After finishing the initialization processing, system will enter into Main interface screen. Picture 4-2 is the 16-split main interface defaulted by system, which is showing no video input status. Once there are video inputs, the interface will display live images from the cameras. In main interface mode, if you double-click the live image of any channel, the image will be maximized to full screen, by double-clicking again, the display will be returned back to 16-split mode.

Clicking the right button of the mouse will pop up Context Sensitive Menu; by clicking the left button of the mouse, you can select menu items; when clicking any area outside the menu, you will exit the Context-Sensitive menu.

**Note:** If DVR is not connected to Hard Driver, "H" Character will appear in the screen and buzzer will sound the alarm. To close the buzzer alarm, please enter into [Device manage→Alarm Set] menu and set [HD Loss] alarm, [Not enough HD space] alarm and [Alarm output] to "Off".

## Chapter 5 DVR Menu

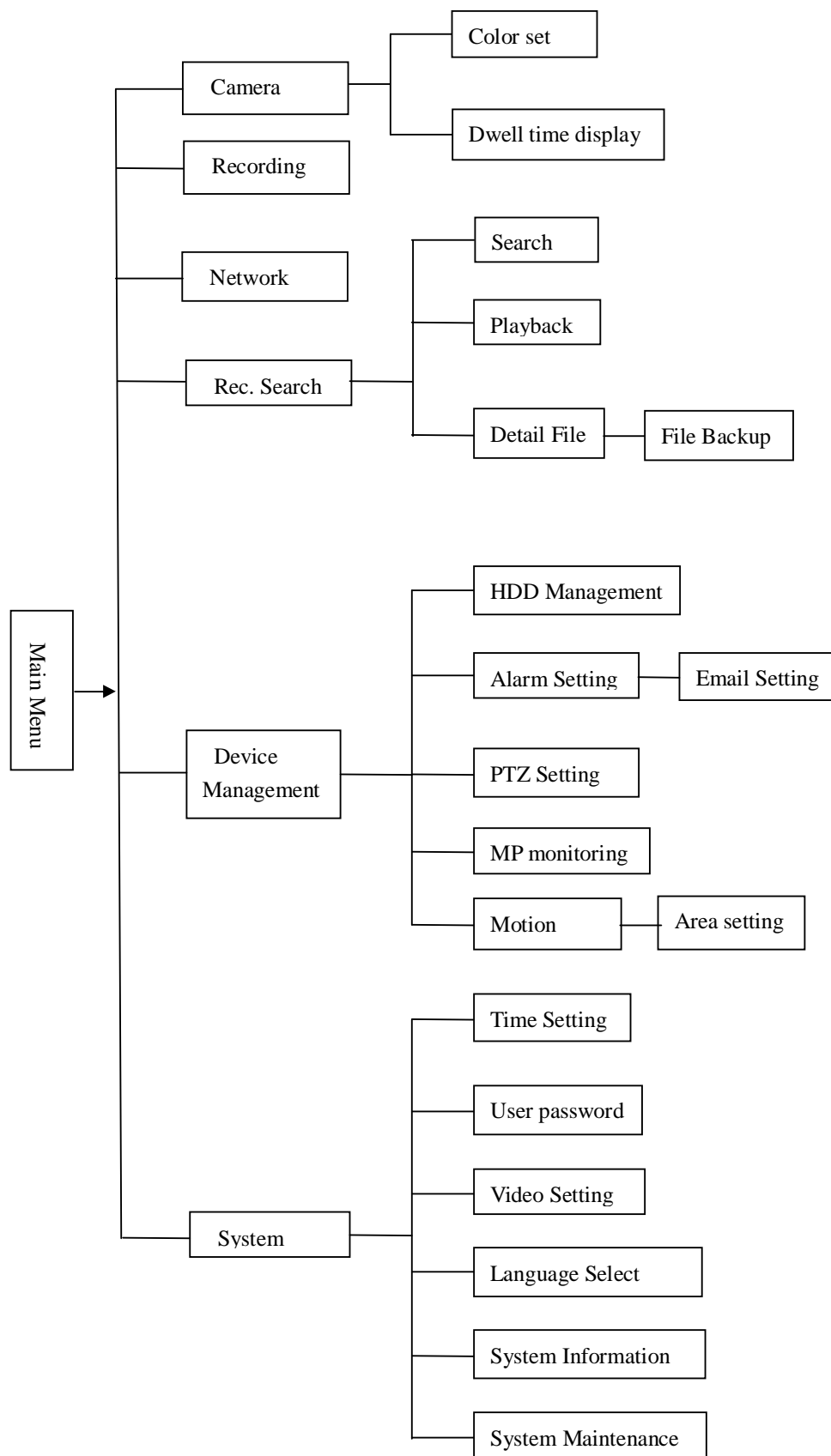
### 5.1 Context-Sensitive Menu



Picture 5-1

On the Main interface mode, right-clicking any area will pop up Context Sensitive Menu, now you can perform parameter settings for Main Menu, Screen Split mode, PTZ control, PIP, Search, Mute, Manual record, Stop record and Start Cruise etc. The Context Sensitive Menu appearing by right-clicking the screen differs depending on different parameter setting and application environment.

## 5.2 Main Menu Preview



## 5.3 Main Menu



Picture 5-2

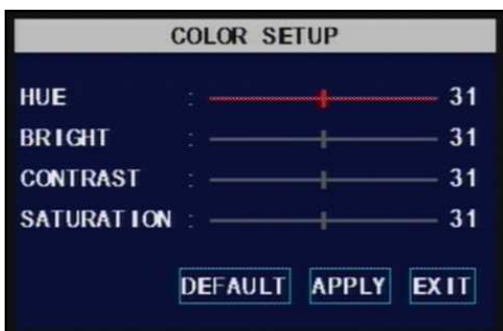
In Main Interface mode, click right key of mouse to pop up Context Sensitive Menu, and then highlight and select [Main menu] item to enter into Main menu. Now user can freely set parameters for [Camera], [Record], [Network], [Search], [Device] and [System] as per user's needs.

### 5.3.1 Camera Set

Click [Main Menu→Camera] option to enter into the below interface shown as Picture 5-3.



Picture 5-3



Picture 5-4

Picture 5-4 is the Color Menu where you can adjust image brightness, saturation, contrast and hue of each channel.

#### Friendly Reminder:

1. The modifications will be available after clicking [APPLY] button on the bottom of the sub-menu windows and being prompted to save and then clicking [ok] button.
2. If you want to cancel the modification, click [Exit] button to exit the menu.
3. When clicking [DEFAULT] button, all system values will be reset to default value.

4. System default value indicates the value pre-set at the factory.

### 5.3.2 Record Set

Click [Main Menu→Record Setup] option to enter into the interface shown as Picture 5-5. The [Record Setup] menu allows you set up recording status (on/off) of each channel, it also allows you setup recording image resolution and quality, and turns audio on/off



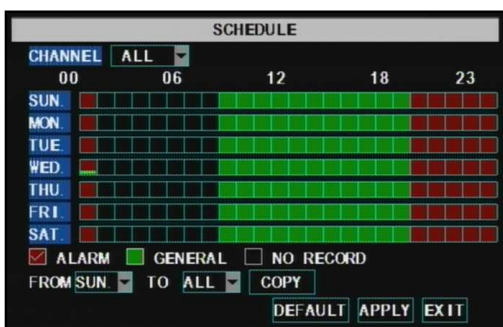
Picture 5-5

- **Channel:** allows you select your desired channel by clicking the pull-down menu.
- **Record Enable:** Once a channel is set to <On>, the video from the channel can be recorded, and set to <Off>, the video will not be recorded.
- **Quality:** Give you three options – Best, Good and Normal – to choose the quality of your recorded images.
- **Resolution:** Allow you select three levels –CIF, HD1 and D1.

- **Audio:** When Audio is set to “On”, system will also record audio from the channels and will have audio output on playback mode; if it is set to “off” you can not record audio and will have no audio output available on playback mode.
- **Rec. Mode:** allow you select record mode (Always and scheduled record)

**Pack Time :** allow you select pack time for recorded file(15, 30, 45 and 60 min)

To record 24 hours a day set the [Rec Mode] to Always. To record on motion or on schedule, select the “Schedule” option from pull-down menu, you can find a new schedule open shown as Picture 5-6. It will include 24 columns from 0~23 each representing a house of the day and 7 rows for each day of the week. Each box represents an hour in the week.



Picture 5-6

After entering into [Schedule] option, you can select your desired channel(s) (<All>, <CH1> to <CH16>) from the pull-down menu.

To setup weekly schedules, tick-select the check-box of the recording status you want (Alarm, General, or No Record) and then click on each box in the schedule time line.

You can use the [From – To] pull-down menus and Copy button to copy settings from one day to another day or all days.

- RED = ALARM**
- GREEN = NORMAL**
- WHITE = NO RECORD.**

### 5.3.3 Network Setup



Picture 5-7

Click [Main Menu→Network] to enter into the left window and select network type (such as DHCP, PPPoE and Static) and media port and web port as per user’s network environment. Now user can visit and operate her DVR remotely.

**DNS:** Generally DNS is provided by local ISP. Herein input IP address of your domain name server.

#### Friendly Reminder:

1. All the parameters you set are available only when you click [Apply] and after system are restarted.
2. User need to change MAC address when there are multiple DVRs at the same local area network. Details please refer to section 5.6.2.5 -System Information.

When selecting DHCP form the Type, DHCP server will automatically allocate IP address for your DVR. The IP address of the DVR might change whenever the unit is turn on if the DVR is configured for DHCP.



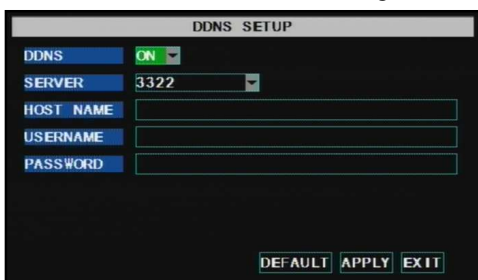
Picture 5-8

When selecting Static from the Type, user can directly input IP address, Subnet Mask, Gateway and DNS shown as below picture. 5-8



Picture 5-9

DDNS (Dynamic DNS) is a service that register a domain name and the floating IP address with the DDNS server so that the domain name can be routed to the IP address even if the IP address is changed in a dynamic IP system. You can enable DDNS by selecting any network type from DHCP, Static and PPPoE after applying for a domain name server, and visit remote DVR through the domain name.



Picture 5-10

When selecting PPPoE form the Type, user can input user name and password provided by ISP and set Media and Web port. You can visit your DVR remotely via public network using the IP address captured after restart or register a domain name and web port to connect to your DVR.

When selecting PPPoE form the Type, user can input user name and password provided by ISP and set Media and Web port. You can visit your DVR remotely via public network using the IP address captured after restart or register a domain name and web port to connect to your DVR.

- **Server:** select a Dynamic domain name server provided by ISP;

- **Host Name:** Input host name registered from Dynamic Domain Naming System, for example: DVR2009.3322.org;
- **User Name:** Input a user name registered before applying for a domain name;
- **Password:** Input a password you set when registering a user name.

### Router's Port Forwarding

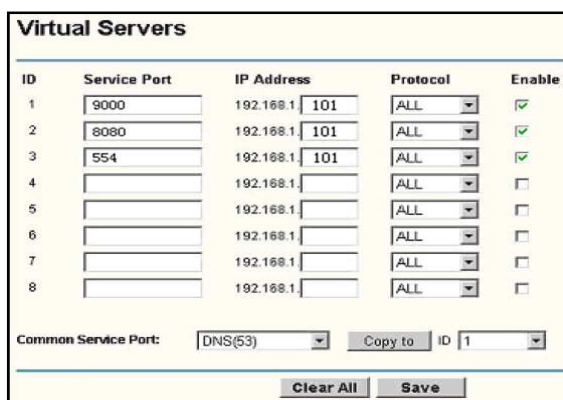
Port forwarding is required when you want to access the DVR connected to the router from outside of the router's network.

1. Input router's IP address from IE-based browser to open the Router configuration interface;
2. Click [Transmittal rule] option to take you to the port forwarding instructions for your router;
3. Set the corresponding parameters illustrated in Picture 5-11. When server port and web port forwarding the DVR IP address, user can visit the DVR remotely.
4. User can enter below website or domain name as per current PC network environment to visit the remote DVR.

<http://public> IP: Web port ( such as 0080 )

<http://intranet> IP: Web port ( such as 0080 ) ( only available at the same LAN )

<http://superdvr.3322.org>: Web port ( such as 0080 )



**Friendly Reminder:** The router's port forwarding interface may be different, however, when entering into virtual server, user will always need forward port 0080 and port 9000 of router to IP address of DVR allocated or automatically captured, and select [All] or [Both] in corresponding protocol column and save the above setting.

Above steps may differ from the router device depending on the manufacturer.

### 5.3.4 Video Search

Click [Main Menu→Video Search] to enter into below window shown as Picture 5-12.

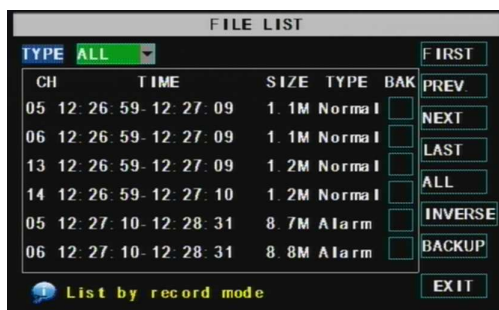


Picture 5-12

- **Channel:** allows you select the channel(s) you desire to search.
- **Time Search:** In the Video Search screen, user can search for a specific date and time for a recording and view it in Playback mode. This is useful for hunting a specific recording of an incident if you know the date and time it occurred. The DVR supports 4-CH playback simultaneously.

- **Date search:** In the Video Search screen, user can search for all the recordings in a specific date. To execute a video search, highlight and select the date numeric field, and then click a detailed time quantum of the specific date, system will start to playback from the first recoding of the time quantum.
- **Playback Mode:** You can use the Playback Control bar to operate the Fast Forward (X2, X4 and X8), Slow play (1/2, 1/4 and 1/8 speed), Play, Pause/Frame, Rewind(X2, X4 and X8). When ending playback, DVR will return back to previous menu.

**File List:** click [File list] button to enter into the [File List] screen shown as Picture 5-13, the video recordings for the time quantum will appear in the screen. And you also can filter the recordings you want to view by the Channel or recording mode based on date/time search.



Picture 5-13

**First :**Indicates the first page of recording history you have searched. When you view other pages, clicking [First] button brings you back to Page one.

**PRE (Previous page):** When viewing event list, clicking the [Pre] button will take you back to page before the one you are currently viewing (except the first page).

**NEXT (Next page):** When viewing event list, clicking the [Next] button will take you to the page after the one you are currently viewing (except the last page).

**LAST (Last page):** Indicates the last page of recording history you have searched. When you view other pages, clicking the [Last] button will take you to the Last page.

**ALL (Select All):** Allows you to select all the events on the current page.



**INVERSE (Select Invert):** Allows you to select other events on the current page except those you have currently selected.

**File backup**



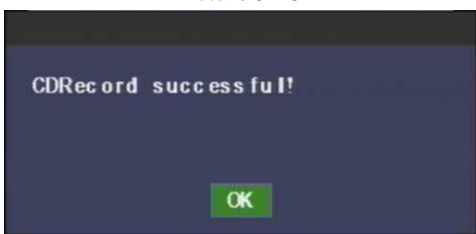
Picture 5-14

In the [File List] mode, if you want to backup recordings, please tick-select the BAK check-boxes which correspond to the recordings and click [Backup] button to enter into the below windows illustrated in Picture 5-14



Picture 5-15

Tick-select embedded DVD and click [Confirm] button, system will start to backup the selected recordings shown as Picture 5-15.



Picture 5-16

When backup processing ends, system will prompt you "Backup success!" shown as Picture 5-16



Picture 5-17

Tick-select USB and click [Confirm] button, you can start to backup your selected recordings through USB shown as Picture 5-17



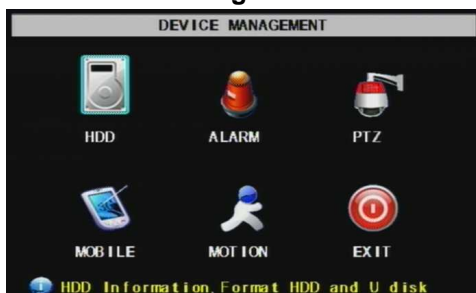
Picture 5-18

When backup processing ends, system will prompt you "Backup success!" shown as Picture 5-18

**Note:**

1. Backup file will be saved as H264 format; you can convert it to AVI format using the Multimedia Player program that comes with the DVR or through the net-viewer program, so you can use any player which supports AVI format.
2. Please make sure you have connected to backup device, such as USB and DVD, well before backing-up.

**5.3.5 Device Management**



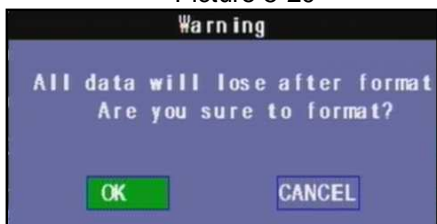
Picture 5-19

Click [Main Menu→Device Management] option to enter into the window shown as Picture 5-19. Sub-menus- [HDD], [Alarm], [PTZ], [Mobile], [Motion] and [Serial port]- will appear in the screen.

### 5.3.5.1 HDD Manage



Picture 5-20



Picture 5-21

In the [Device Management] screen, highlight and click [HDD] icon to enter into the window shown as Picture 5-20.

When DVR is connected to a HDD, the system will automatically detect if HDD is formatted or not; If HDD needs to be formatted, HDD status will be shown as “No Disk”, otherwise, the HDD status will be shown as “Normal” (refer to Picture 5-21).

- **NO:** indicate HDD no defaulted by system.
- **Status:** : It will be available only when HDD have been
- **Total Space** – indicate total size of the hard drive currently installed
- **Free Space** – indicate total amount of free space available on the hard drive currently installed.
- **Useable Rec. Time** – indicate free space currently available in hours.
- **HDD Format** – Formatting the HDD will erase all data (i.e. footage) which is stored on it, and re-create the FAT (file allocation table).
- **Auto overwrite** – When set to ENABLE the DVR will record over the oldest files on the hard drive. The DVR will always be able to record events as they happen, however, it does means that you’ll need to get important events off the HDD before they’re overwritten; and if overwrite is set to DISABLE the DVR will stop record once the DVR is full. Whilst you won’t lose old footage, you run the risk of missing new events as they happen. Be sure you want to do this before selecting it.
- **USB Format** - If you have a USB flash drive connected to the DVR, you can format that, too. To do this, click the [USB Format] button and click [OK].

**Note:** It is an important first step when configuring your DVR to make sure that the hard drive (HDD) options are correctly set. So, strongly suggest that you do format the HDD before start the first record.

### 5.3.5.2 Alarm Set



Picture 5-22

Click [Main Menu→Device→Alarm] to enter into the below interface shown as Picture 5-22.

- **Channel select:** the options allow you select one channel you want.
- **I/O STATUS** : Options include NO (Normal-open), NC (Normal-close) and OFF. When Setting to “Normal Open”, I/O status Alarm will be activated while sensor is ON; set to “Normal Close”, I/O status alarm will be activated while sensor is OFF; set to “OFF”, I/O status
- **HDD LOSS:** Options include “On” and “Off”. If you select “On” there will be a buzzer sound and “H” sign appears on screen when HDD is not detected or not formatted; on the contrary, if you close the function, there is only “H” sign, but no alarm sound heard when HDD not found or not formatted.
- **HDD SPACE:** Options are “On” and “Off”. When the alarm function is on, there are alarm sounds when

the HDD is running out of space; when the function is off, there are no alarm sounds.

- **VIDEO LOSS:** Options are “On” and “Off”. When the function is on, system will issue alarm sound and display video loss on the preview interface; when the function is off, system will have no alarm sound, but the preview interface will display video loss.

➤ **ALARM MANAGE**

Alarm Output: you can set how long the external sensor alarm will last when motion is detected (0s, 10s, 20s, 40s, 60s);

Buzzer time: you can set how long the buzzer will sound when motion is detected (0s, 10s, 20, 40s, 60s);

Alarm duration time: you can set how long alarm record will last when alarm ends (0s, 30s, 1minute ,

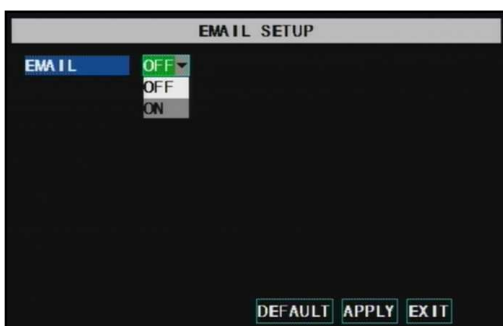
2minutes , 5minutes);

Pre-record time: you can set how long record will last before alarm occurs (Off, 10s).

<b>Video Loss</b>	Alarm will be activated when DVR can't receive video signal (such as camera damage, cable broken or damaged or power supply malfunction).
<b>Motion Detection</b>	When an object moves into motion detection area, alarm will be triggered. You can adjust sensitivity level to suit the needs of your actual application environment.
<b>I/O Status</b>	System can convert alarm signal triggered by external sensor into signal identified by system.
<b>HDD loss</b>	When Hard Drive is not detected (HDD damage, power supply malfunction), or HDD auto-overwrite is off, and free space is not enough, an alarm will be triggered.

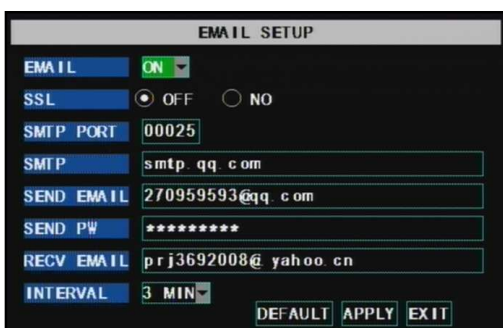
List 5-1

**EMAIL Set**



Picture 5-23

Click [Main Menu→Device→Alarm] to enter into the below interface shown as Picture 5-23.



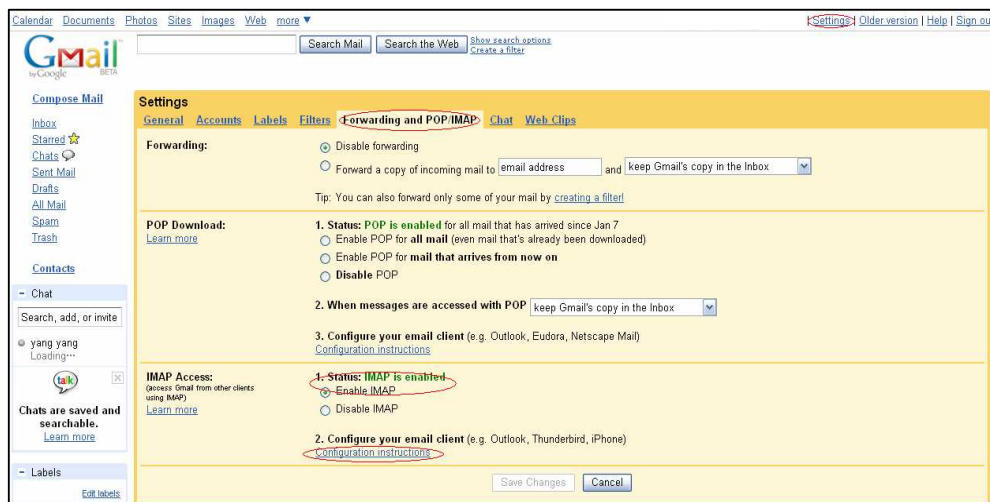
Picture 5-24

On the [EMAIL] screen, when Enabling [Email] option, you can set its parameter shown as Picture 5-24.

SSL: is a security link transport protocol. You can encrypt your communication info (including your email) using SSL to prevent hackers from monitoring your email or communication info and even your password.

Please set SSL to “On” via Gmail.com server, and set to “Off” via other mail server.

If your setting is still not right, please contact the web site where you have applied for your email box to get SMTP server and SSL of mail box.



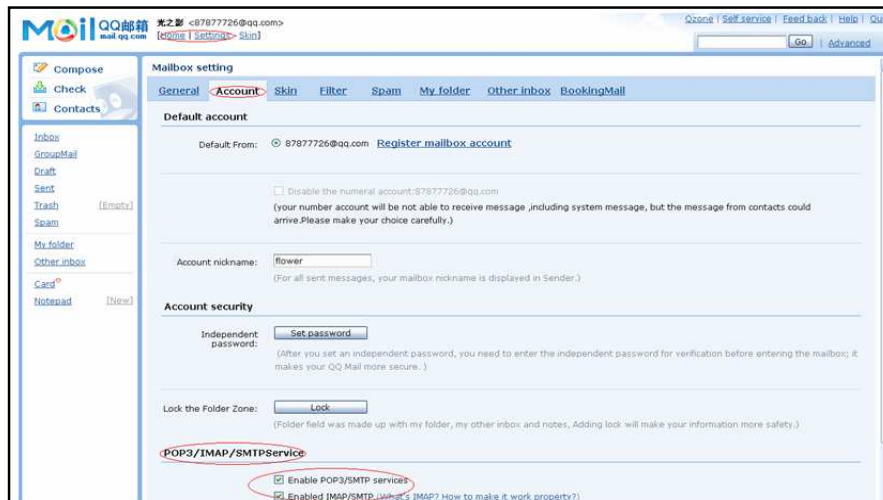
Picture 5-25

**SMTP Port:** indicates sender port of SMTP server. Generally the SMTP port value is 25, but there are exceptions, for example, SMTP port of G-mail server should be 465.

**SMTP server:** indicates server address you used.

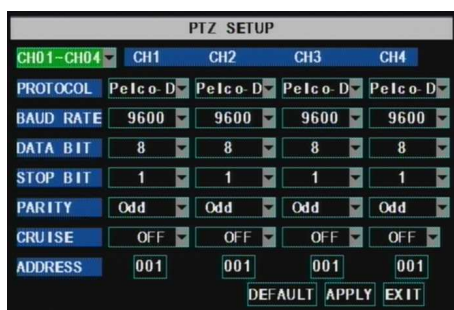
**Sender address:** indicates sender's email address. The email address should be consistent with the server you use. That is to say, when you use email address – [aaa@gmail.com](mailto:aaa@gmail.com), the according server should be smtp.gmail.com.

**Receiver address:** indicates receiver's email address. The email address is used to receive image transmitted from motion detection alarm of DVR. Please clear the images you have received as soon as possible to avoid overloading your email account. For detailed SMTP protocols settings refer to the below pictures 5-26



Picture 5-26

### 5.3.5.3 PTZ Set



Picture 5-28

Enter into [Main menu→Device→ PTZ Set] to select the channel you desire to control and set PTZ protocol (Pelco-D or Pelco-P), Baud Rate (1200, 2400, 4800, 9600), Data Bit (8,7,6,5), Stop bit (1, 2), Parity Check (None, Odd, Even Mark Space), Address Code and Cruise status respectively. Please note the PTZ device can be activated only if a channel is in accordance with the PTZ camera selected.

### 5.3.5.4 Mobile Monitoring



Picture 5-28

Click [Main menu→Device→Mobile] to enter into [Mobile] menu shown as Picture 5-29.

**User Name:** enter user name of DVR.

**User password:** indicate user password of DVR

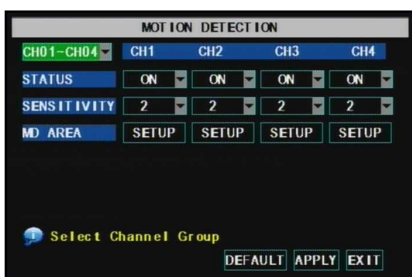
**Server port:** indicate mobile monitoring port. Setting range is between 1024 and 65535.

**Note:**

1. The user name and password you enter can not be empty.
2. The Server port no is not equal to network web port you set.
3. You should forward the server port number to router (details please refer to section 5.2.3 – Network set)

### 5.3.5.5 Motion Detection

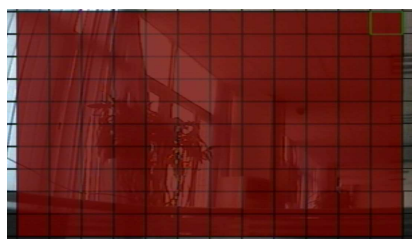
You can set up motion detection in a specific area for one camera. Click [Main Menu→Device Management→Motion Detection] to enter into the below interface shown as Picture 5-46.



Picture 5-46

The [Motion detection] Menu has three sections, including Channel Status, Sensitivity and Motion area.

- **Channel Status:** Video motion detection can be turned on or off for each camera.
- **SENSITIVITY:** This option allows you to set sensitivity level of motion detection from low, normal, high to highest with highest being the most sensitive.
- **MD Area:** This option allows you setup the MD area for the channel you wish to be sensitive to motion.



Picture 5-47

The channel will be separated into a 13X10 grids. When any object moves into the motion detection area, and the area where the object is located is displayed in red and motion detection will be triggered. In the semi-transparent area the motion detection is not activated.

### 5.3.5.6 Serial Port Set

On the [Serial Port] screen, you can set relative parameters to control High speed Dome and DVR through keyboard.



Picture 5-48

- **Protocol:** allow you select communication protocol for the high speed Dome connected to DVR (Pelco-D or Pelco-P)
- **Baud Rate:** allow you select communication speed of high speed Dome (1200, 2400, 4800 or 9600).
- **Data Bit:** allow you select data bit of high Speed Dome, which evaluate the actual data bit during the communication (8,7,6 or 5).
- **Stop Bit:** allow you select stop bit of high speed Dome (1 or 2).
- **Parity Check:** include four kinds of Parity check mode (Odd, Even, Mark or Space).

Note: If you want to operate DVR or high speed Dome through Keyboard, please set its Baud rate accordingly. And other options, such as protocol, data bit, stop bit and parity check, can be optional.

### 5.3.6 System Set

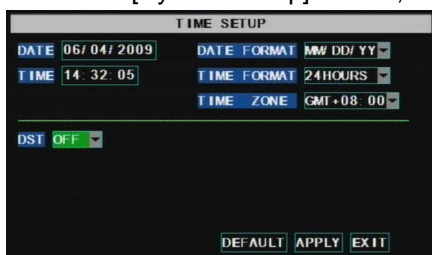


Picture 5-49

You can set Date/Time, User password, Video/Audio, Language, System info and System Maintenance shown as Picture 5-49.

#### 5.3.6.1 Time Set

In the [System Setup] screen, highlight and click [Date/Time] option to enter into the below window.



Picture 5-50

1. Now you can check and setup current date/time and time related properties, also modify system display time and date/time display format and setup DST status and mode etc.
2. Click [APPLY] button to save and exit the above setting.

#### 5.3.6.2 Password



Picture 5-51

In the [System Set] screen, highlight and click [Password] icon to enter into [Password] interface.

1. Set [device ID] and [Password Enable] option;
2. Click [Apply] button to save and exit current setting.



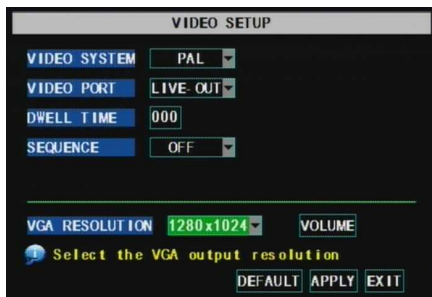
Picture 5-52

When enabling password to [On] first time, you can set [User Password] and [Admin Password] respectively.

Password is consist of numeric character 0-9 with a specific length -6 bit.

### 5.3.6.3 Audio/Video Set

Click [Main Menu→System→A/V] to enter into the below interface.



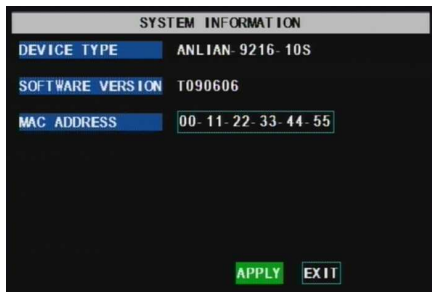
Picture 5-53

### 5.3.6.4 Language



Picture 5-54

### 5.3.6.5 System Information



Picture 5-55

### 5.3.6.6 System Maintenance

To recovery system ex-factory default settings, update system software (firmware) and/or set system auto-maintenance, please enter into [Main Menu→System Setup→System Maintain] option shown as Picture 5-56.



Picture 5-56

Note:

- **Camera system :** allow you set Camera system。
- **Video output port:** include Live out port which indicates real-time display mode and Spot out port which indicates single channel/dwell time display.
- **Dwell time :** Settable period include 0s to 300s.
- **Channel sequence set:** the option allows you setup display position

Enter into [System Language] menu to select the language you want to use on the DVR (shown as Picture 5-54) and click [APPLY] button. The selection will be available after system Auto restarts

Click [Main Menu→System Setup→System information] and then enter into the interface shown as Picture 5-55.

Now user can check the current Device Type, software version and MAC address.

Note: please revise the MAC address for each DVR respectively when connecting multiple DVRs to an intranet; otherwise, you maybe fail to connect to network.

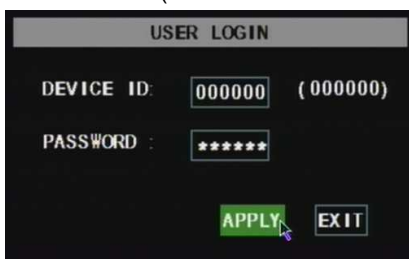
Prefix of MAC address should be 00-11-



1. Please cut power and plug-in U flash disk during the upgrade.
2. Please manual recover ex-factory default value after restart.
3. When setting auto Maintenance time, DVR should return back to pre-view screen and have no any operation, otherwise, auto-maintenance will be not effective.

## 5.4 Menu Lock

Considering a system safety feature you can click [Menu Lock] menu to lock system interface when leaving the DVR. If you want to login to the DVR again, you would input device code and password to unlock the interface (refer to the Menu Lock interface- Picture 5-57).

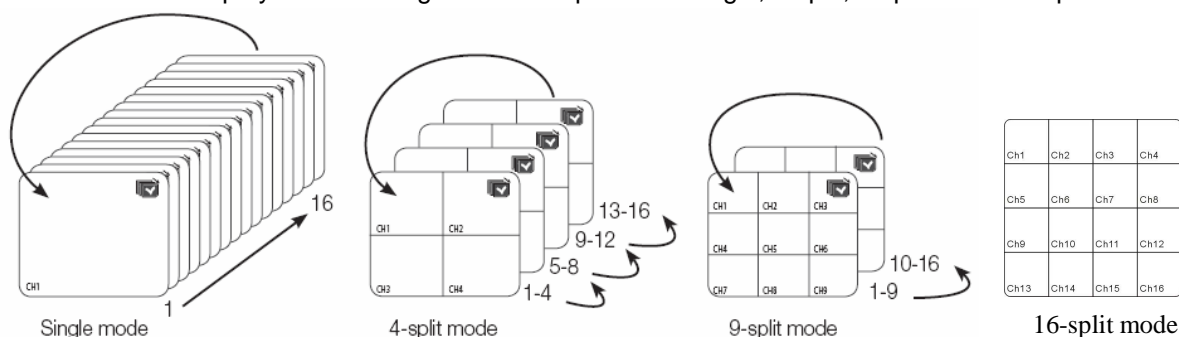


**Friendly Reminder:** User only has a permission to access [Video Search] menu. But Administrator has full authority over Main Menu operations.

Any user can manually start recording and shut down the manual recording when system are not on the [Record] mode.

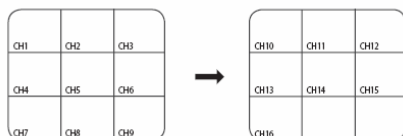
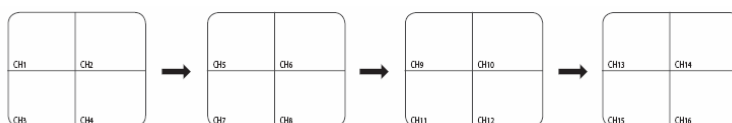
## 5.5 Split mode

The model displays 16 live images in the sequence of single, 4-split, 9-split and 16-split modes.



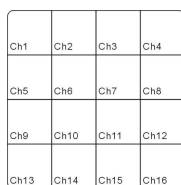
If you clicking the right key in 4-split mode:

Channel (CH1~4) → Channel (CH5~8) → Channel (CH9~12) → CH13~16



If you clicking the right key in 9-split mode:

Channel (CH1~9) → Channel (CH10~16)



If in the 16-split mode, the display show as below:  
Channel (CH1~16)

## 5.6 PTZ Control



We introduced setting PTZ parameters previously in chapter 5.2.6.3. Here we will discuss how to operate PTZ controls.

Pop up the Context sensitive Menu to highlight and enter into [PTZ control] menu (shown as Picture 5-58). Now user can control the camera with Pan, Tilt and Zoom capabilities.

Click [Zoom-/+ ] button to zoom in / out the image; Click [Focus -/+ ] button to focus the image; Click [Iris -/+ ] button adjust iris to open or

## Cruise Set



Picture 5-59

Open auto cruise function on PTZ setting menu if you want to setup cruise function (system default: off), and set up cruise channel, cur point and total quantity and stop time etc.

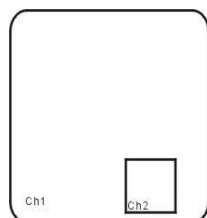
- **Channel select:** select the channel with the PTZ camera
- **Total:** set up pre-set bit quantity
- **Cur Point:** indicates starting point cruised. System default point is 01.
- **Stop time:** sets the stop time at each point
- **GOTO:** allow you go to a specific preset point.
- **Set:** allow you set a set of specific preset points of a PTZ camera.
  1. Select a camera you desire to set a preset point;
  2. Adjust the camera in a desired direction
  3. Click [Set] to set the point as preset point
  4. Click [Save] to save the preset point
  5. Follow the above step to add one more preset point.

- **Clean:** allow you delete one selected preset.

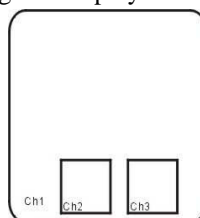
**Note:** Up to 99 presets per one camera can be stored. However, actual preset quantity differs depending on PTZ performance.

## 5.7 PIP Mode

PIP display is one kind of Live display mode, including 1x1 display mode and 1x2 display mode.



1x1 display mode



1x2 display mode

## 5.8 Video Search

Pop up the Context sensitive Menu to quickly enter into [Video Search] Menu. We have introduced how to search and playback video recording in previous section. Details please refer to section 5.2.4 – Video Search.

## 5.9 Mute

You can control volume open or close by clicking the [Mute] option.

## 5.10 Record

Pop up Context sensitive Menu to enter into the [Record] option. Now you can start manual record function, or you also can click [Rec.] button on the Front panel or Remote controller to activate manual record. Please stop record manually once you activate manual record.

## 5.11 Stop Record

To stop record quickly, please pop up Context sensitive Menu to highlight and enter into [Stop] option or click [Stop] button

## 5.12 Start Sequence

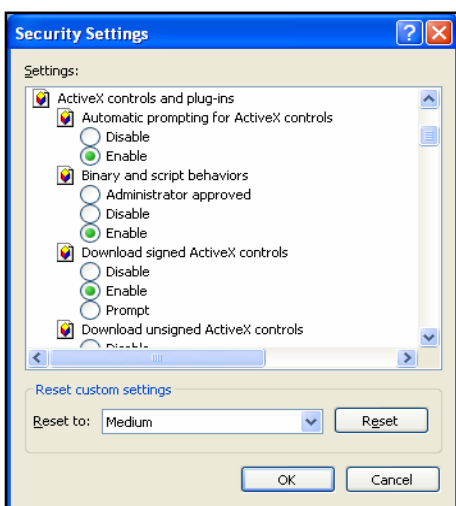
In the single mode, when entering into [Start sequence] menu, auto-sequence will be conducted at the set interval.

## 5.13 Start Cruise

If multiple presets are specified, the PTZ camera will automatically move to all of the preset one at a time whilst user activate [Start Cruise] options.

# Chapter 6: Web Application Manager

## 6.1 Plug-ins download and installation



Picture 6-1

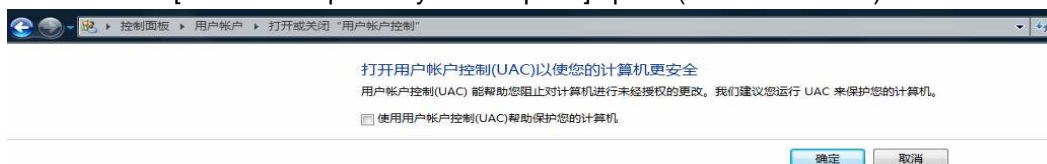
1、 Open your web browser and input the IP address and web port of DVR;

2、 If your computer is connected to internet, you will be prompted to download and install “ActiveX Control”;

3、 You may have “Windows Security Alert” that attempts to block this with the windows Firewall. In that case, click [Unblock] button to continue your installation processing.

4、 The installation is complete; you will enter into the interface shown as Picture 6-1 and activate some ActiveX control

**Reminder:** If Visita system user can't playback or backup record file, please check and revise your user authority. And to revise the user authority, enter into [Start→Setup→Control Panel→user authority setup] option and cancel the [Use UAC to protect your computer] option (shown as below).



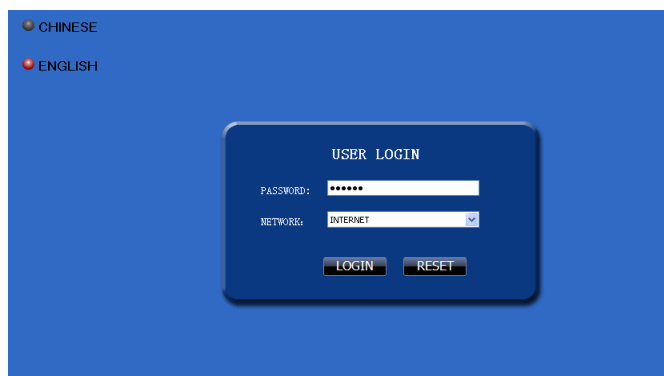
**Note:** If you want to delete old IE webcam at DVR system update, run the command characters:

“regsvr32/u dvrocx.ocx”

## 6.2 Web Application Manager Log-in

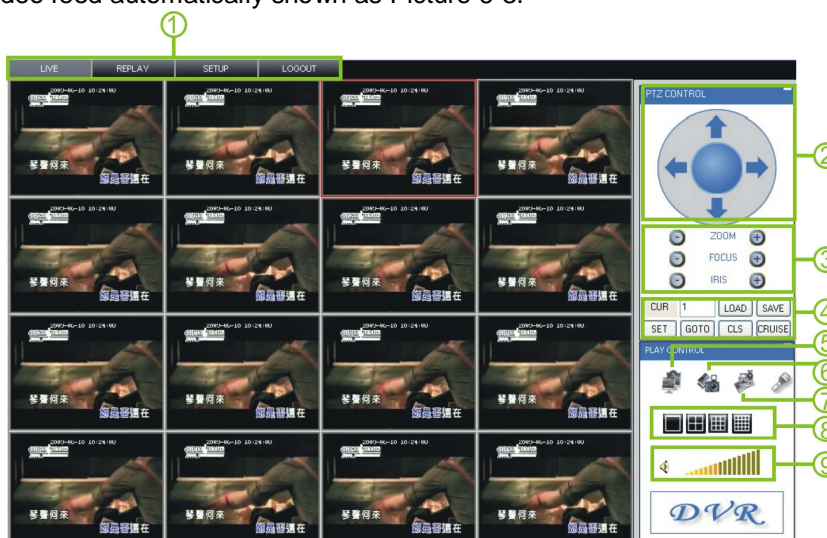
After plug-ins installation, please select log-in language (Chinese or English), and then enter password and click [Log-in] button, and now you can view DVR remotely through the Web Application Manager

Please note default password is empty. System allows Administrator to set new password as per instructions in section 5.2.6.2 - [Password set] menu.



Picture 6-2

After successful Log-in to Web Application Manager, system will enter into live display interface and connect to audio/video feed automatically shown as Picture 6-3.



Picture 6-3

## 6.3 Web Application Manager Interface

### 6.3.1 Menu toolbar

This Menu toolbar consist of [Live], [Playback] and [Setup]

#### 6.3.1.1 Live Display

After logging-in system, you can access the main screen of live display firstly.

On the Live mode, you can operate the buttons on the right side of the screen, and you also can control the PTZ if your DVR have been connected to PTZ camera.

#### 6.3.1.2 Playback mode

The option allows you playback the recorded file remotely.

1. It will display the recorded video data status on the DVR after a date is selected and clicking [Search] button.
2. Select and playback any event from search list.
3. You can control the playing processing for the recorded file by sliding the play-control bar on the bottom of the screen.



Picture 6-4

[Pause]: Pressing the [Pause] button will freeze the video on the screen.

[Stop]: Pressing the [Stop] button will stop playing the recorded video..

[F. Forward]: Pressing [F.F] button plays video forward at high speed.

[Slow] Pressing [Slow] button play video slowly.

[Next frame]: Pressing [Next frame] button goes to the next image.

[264 to AVI]: Convert the playback format from 264 formats to AVI format.

**Volume control Bar:** allows you adjust recorded video's volume.



[Backup]: highlight the desired data and click [backup] button. The selected recording data will be saved. The saved route please refers to the setting shown as Picture 6-10.

Backup file will be saved as \*.264 format. User can convert to AVI format by clicking [264 to AVI] button.

[Playback]: When selecting a desired recording data and clicking [Playback] button, system will playback the recorded file, at the same time, create a backup file in the preset route and start recorded file backup.

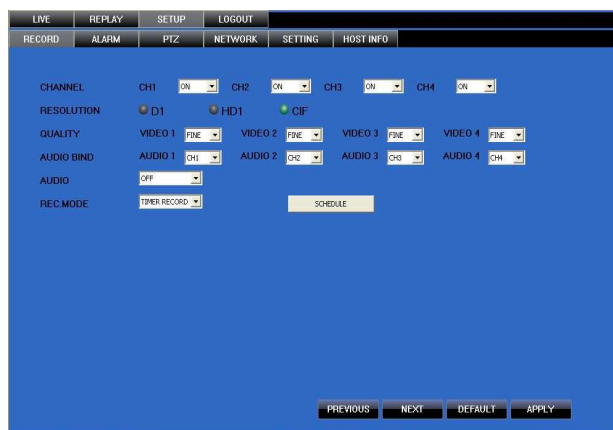
### 6.3.1.3 Setup

Click [Setup] button to enter into the interface shown as Picture 6-5. Now you can perform record mode, Alarm mode, PTZ control, network setting, and system setting and check host information.

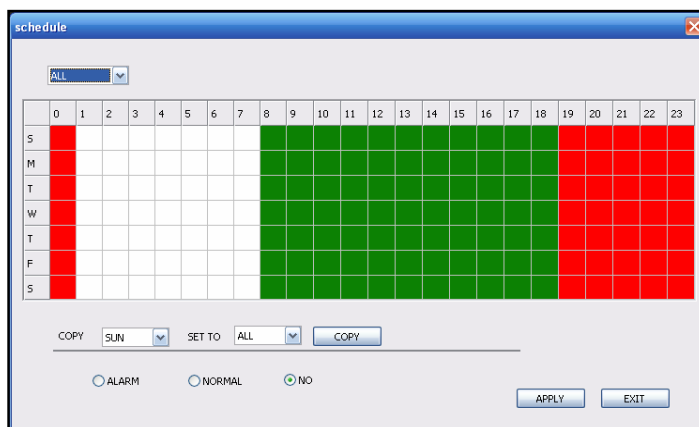
**Note: Your modification to DVR remotely will be available only when the DVR is on the Main Interface mode.**

#### ✧ Record Mode

On the [Setup] screen, click [Record Mode] to enter into the below window. You can select on/off for every channel, and adjust recording parameters (resolution, quality, audio, REC mode and Schedule) remotely



Click [Schedule] option to enter into the [Scheduled Record] window shown as Picture 6-6. Details setting please refer to the previous section 5.2.3-Schedule



Picture 6-6

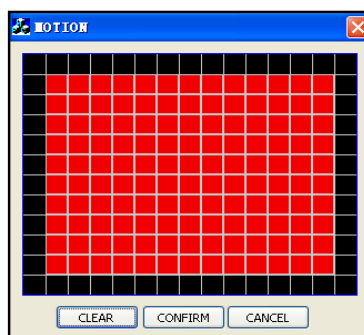
### ❖ Alarm Set

Click [Alarm set] option to enter into the window shown as Picture 6-7. You can set I/O status, Motion, HDD Space, HDD Loss, Video Loss and Alarm output parameter for each channel. Detail settings please refer to section 5.2.5.2 – Alarm Set.



Picture 6-7

System allows you remotely perform MD area settings for each channel of DVR.



Picture 6-8

### ✧ PTZ Control

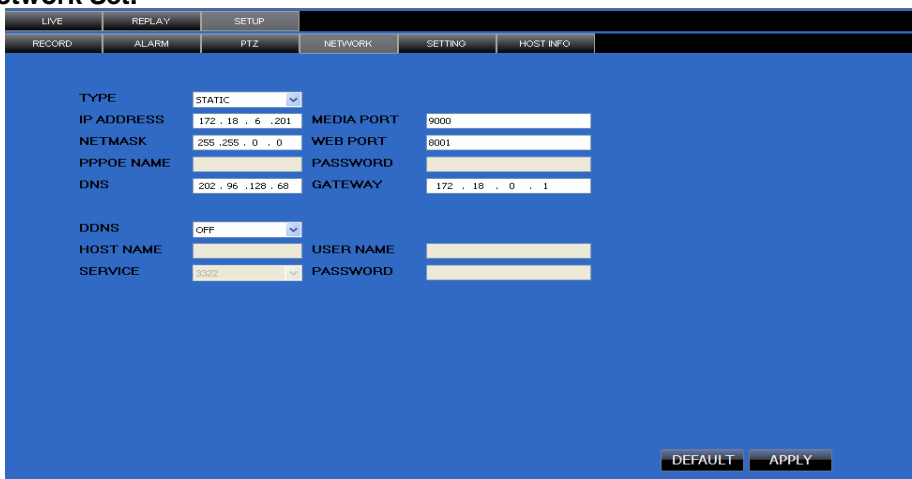
Click [PTZ Control] option to enter into the window shown as Picture 6-9, and you can set protocol, Address Code, Baud Rate, Data Bit, Stop Bit and Parity Check for each PTZ camera. Detail settings please refer to section 5.2.5.3 – PTZ Setting



Picture 6-9

### ✧ Network Set

Click [Network] to enter into the window shown as Picture 6-10. You can set the network type of DVR as per your network environment. Remote settings are same as local DVR settings. Details please refer to section 5.2.3 – Network Set.



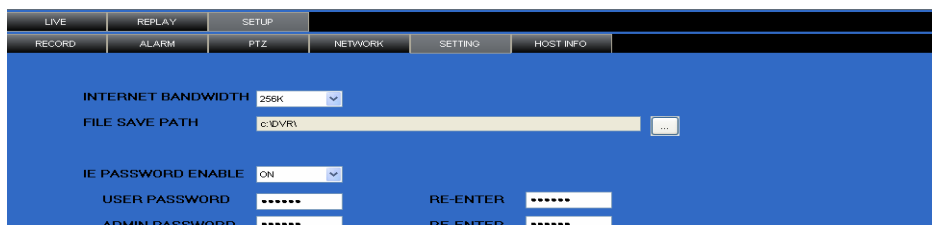
Picture 6-10

### ✧ System Set

Click [System setup] option to enter into the interface shown as Picture 6-11.

Click [...] button to preview Web Application Manager recording saving path and screen capture saving path.

The option also allows you set user name/password and DST On/Off and Mode.

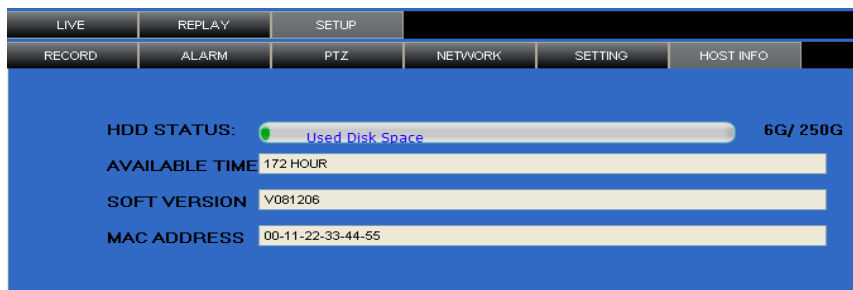


**Network Environment:** The higher quality setting requires higher transfer speed setting. Depending on the actual network environment, the transfer speed may not be achieved, and the local recording speed might be affected by various network bandwidths (Transfer speed) condition.



## ✧ Host Info

Click [Host Info.] option to enter into the window shown as Picture 6-12. Here you can check Usage rate of HDD, available recording time, software version and MAC address.



Picture 6-11

## 6.3.2 PTZ Control

**Note:** below item nos will be consistent with the markings shown as Picture 6-3.

2.PTZ direction control: Control PTZ moving direction


3.Zoom, Focus and Iris Control: control direction, zoom, focus and iris of PTZ.


4.Preset bit Control

- **Cur Point:** indicates starting point you desire to cruise firstly.
- **Load:** Load the last preset you set
- **Save:** Save the preset you set
- **GOTO:** allow you go to a specific preset point.
- **Set:** allow you set a set of specific preset points of a PTZ camera.
- **Clean:** allow you delete one selected preset.
- **Cruise:** allows you enable/disable [cruise] function.





## 6.3.3 Play Mode


**Note:** below item nos will be consistent with the markings shown as Picture 6-3..


⑤ On / Off Live display [  ] : When Live display status is “On”, Clicking the button closes Live display. When “Off” clicking the button opens the live display.

.Capture [  ] : Capture Screen image and save to PC as \*bmp image.

.Recording [  ] : Operate DVR recording remotely

Channel display [     ] : The icons stand for Single Channel display, Quad Channel display, 9-split display and 16-split display respectively.

.Volume control [  ] Click or slide the control bar to adjust sound volume.

⊗ Talkback  : Set [Talkback] to ON, you can real-timely talkback with local DVR

# Chapter 7: Specifications

Type	Device Parameter	16 CH DVR
Video / Audio	Video System	PAL/NSTC (Optional)
	Compression Format	H.264
	Audio Compression Format	8kHz*16bit ADPCM
	Display Resolution	D1:704x576(PAL) 704x480 (NTSC)
	Record Resolution	D1/HD1/CIF
	Playback Resolution	D1/HD1/CIF
	Record Total Frame rate	PAL 100fps(D1)/200fps(HD1)/400fps(CIF) NSTC 120fps(D1)/240fps(HD1)/480fps(CIF)
	Display Mode	Support auto sequence, PIP display and Zoom in/out in special area
Record	Record Mode	Always, Scheduled, motion, Alarm, Net-viewer record.
	Pack Time	15/30/45/60 min (adjustable)
	Playback Mode	Normal play, Fast Forward, Rewind and slow play frame by frame.
	Backup Function	Support U flash disk, removable HDD, recorder and network backup
Alarm	Alarm mode	Motion Detection, Sensor triggered, Video Loss, HDD Full, HDD Error
Network	Network Function	Support Mobile surveillance, Remote Live surveillance and parameter setting.
	Network Protocol	Supports TCP/IP, DHCP, UDP, DDNS, PPPOE network Protocol
System Interface	Video input/output	16 CH Input/2 CH Output, 1 CH VGA input
	Audio input/output	4 CH Input / 1 CH Output
	Alarm input/output	16 CH Input/1 CH Output
	HDD Interface	Support USB removable HDD and SATA HDD
	Network Interface	One RJ-45 10M/100M self-adaptable Ethernet interface
	USB Interface	Support Mouse, removable HDD and U flash disk backup and upgrade.
	PTZ Control	Embedded RS-485 port, supports PELCO-P & PELCO-D protocol.
General Parameter	Power Adapter	DC 12V5A
	Operational Temperature	10°C~+40°C
	Operational Humidity	10%~90%
	Power Consumption	40-45 W (exclude HDD)
	Dimension (W x D x H)	

# Chapter 8: Appendix

## 8.1 Operation Function Table

Type	Title	Description	Page
Basic setting	Time setting	Set system date/time, display format and day-light saving time	26
	Language select	Set system language	27
	Channel setting	Set CH title and position; adjust image color parameter value; set CH display to ON / Off and time display/recording time overlaying to On/Off.	9
	Record setting	Set image quality, resolution, volume, record mode and pack time	10
	Record search	Time based search, channel based search and rec. mode based search.	12
	Record Playback	Specified time playback, scheduled playback, file list playback	12
	Playback mode	Play, play frame by frame, multi-speed forward and multi-speed rewind	13
	File backup	U flash disk and removable HDD backup, DVD recorder backup and network download	13
	HDD Manage	Check HDD status, usage space, setting HDD auto-overwrite	15
	VID/AUD Setting	Adjust VGA resolution, select system and volume control, set interval and channel display	26
Advanced Setting	User password	Set or modify user password	26
	Alarm setting	Set HDD loss, HDD space, video loss, I/O status, alarm management and Email alarm	15
	Motion detection	Set on/off status of MD; select sensitivity and set motion detection area.	25
	PTZ setting	Select CH and set PTZ protocol, baud rate and PTZ address for the CH	19
	Mobile surveillance	Set user name, password and server port.	19
	System maintenance	Set system auto maintenance, maintenance time regularly, system upgrade, ex-factory default value recovery and manual restart system	27
	Display mode	PIP display, Zoom in/out, split mode, auto sequence and cruise display	
Network setting	Network and Port setting	Select network mode and set net-viewer port, web port, DNS and DDNS parameters.	10

Network Function	Live display	Rea-time video surveillance remotely	32	
	Remote record	Set record mode and status of DVR remotely	32	
	Remote playback	Check local record history via network	32	
	PTZ control	Remotely control PTZ camera, position, focus, zoom and iris etc.	37	
	parameter set of DVR remotely	Set local CH display, record, alarm, PTZ control parameter value via network	32	
	Network download	Backup record file via network	32	
Auxiliary function	System info	Check device ID, software version and MAC address	27	
	( )	In addition to illustrating picture, Parenthesis generally indicate optional parameter value of previous menu.		
Menu button	Enter	Clicking the button will save current parameter.		
	Default Recovery	Clicking the button will recover current parameters to system defaulted value.	Be effective after clicking [Enter] button.	
	ESC	Clicking the button will exit the current menu.		
Basic application Guide	⌚Time setting	Adjust system time	26	
	⌚HDD Manage	Format HDD	Be effective after restart. 15	
	⌚Net setting	Set network type and web port (except of PPPoE, other type need forward web port to router of DVR.	Be effective after restart.	10
	⌚System Info	Modify MAC address		27
	⌚Mobile Monitoring	Set relative parameter		19
	Other	PTZ setting, Record set and Language select etc		

List 8-1

## 8.2 Record Alarm setting

Please refer the below matrix: “⊥” stand for “only alarm but no record”; “AMR” stand for “alarm record”; “NLR” stand for “normal record”; and “NOR” stand for “ no record”. Once alarm is triggered, alarm icon will occur, and when many alarms are triggered, alarm remarks will occur on the screen.

Record alarm setting		Alarm icon	Record Mode				
			Record after power on	Scheduled recording			Manual Record
				AMR	NLR	NOR	
<b>Alarm mode</b>	MD alarm	<b>M</b>	AMR	AMR	NLR	⊥	NLR
	I/O triggered alarm	<b>I</b>	AMR	AMR	NLR	⊥	NLR
	HDD loss, HDD Full	<b>H</b>	⊥	⊥	⊥	⊥	⊥
	Video Loss	Video Loss	⊥	⊥	⊥	⊥	⊥

List 8-2

In the record mode, [**R**] icon or [**M**] icon will appear on the screen. But when [**I**] icon and [**M**] icon appear on the screen that means a motion alarm is triggered. When [**H**] icon appears on the screen, that means HDD alarm has occurred.

## 8.3 Compatible mobile list

Currently the model supports Windows and Sybian S60 Version 3, and we have passed the below mobile models.

NOKIA		
NOKIA N73	NOKIA N78	NOKIA N79
Nokia N81	NOKIA N95	NOKIA E60
NOKIA E61	NOKIA E62	NOKIA E63
NOKIA E61I	NOKIA E71	
DOPOD		
DOPOD Touch3G	DOPOD P660	DOPOD 838
DOPOD D900	DOPOD S900pro	DOPOD S1
DOPOD VIVA		

List 8-4

## 8.4 Mail box server List

Web site	Mail box	Sender server ( 25 )	Receiver server ( 110 )
www.163.com	@163.com	smtp.163.com	pop3.163.com
	@vip.163.com	smtp.vip.163.com	pop.vip.163.com
	@188.com	smtp.188.com	pop.188.com
	@126.com	smtp.126.com	pop3.126.com
	@netease.com	smtp.netease.com	pop.netease.com
	@yeah.net	smtp.yeah.net	pop.netease.com
www.qq.com	@qq.com	smtp.qq.com	pop.qq.com
163.net		smtp.163vip.net	popx.163vip.net

www.sina.com	@sina.com.cn	smtp.sina.com.cn	pop3.sina.com.cn
www.yahoo.com	@yahoo.com.cn	smtp.mail.yahoo.com.cn	pop.mail.yahoo.com.cn
	@yahoo.com	smtp.mail.yahoo.com	pop.mail.yahoo.com
google.com	@gmail.com	smtp.gmail.com(465/587)	pop.gmail.com(995)
www.china.com	@china.com	smtp.china.com	pop.china.com
www.sohu.com	@sohu.com	smtp.sohu.com	pop.sohu.com
Mail.163.com		smtp.163.net	pop.163.net
Mail.163vip.com		smtp.163vip.net	pop.163vip.net
Mail.tom.com	@tom.com	smtp.tom.com	pop.tom.com
Mail.263.com	@263.net	smtp.263.net	pop3.263.net
x263.net		smtp.x263.net	pop.x263.net
263.net.cn		smtp.263.net.cn	pop.263.net.cn
139 mail box	@139.com	smtp.139.com	pop.139.com
21cn.com		smtp.21cn.com	pop.21cn.com
Vip.21cn.com		vip.21cn.com	vip.21cn.com
etang.com		smtp.etang.com	pop.etang.com
elong.com		smtp.elong.com	pop3.elong.com

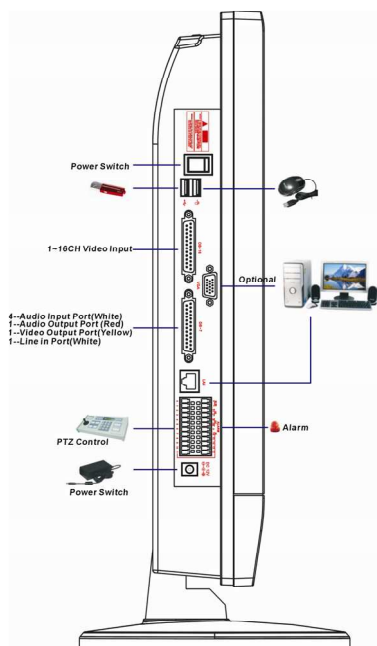
List 8-5

## 8.5 Troubleshooting

1. Q: What can I do if the system does not detect the HDD?  
A: Check if the power supply system is properly connected and data cord and power cables are securely connected.
2. Q: We have changed the password but do not remember the new password, how can we access the system?  
A: If you forget system password, please consult with the service personnel.
3. Q: We are not getting any video signal on the DVR, what is wrong?  
A: Check camera video cable and connections; or check monitor video cable and connections; or confirm that the camera has the power and / or check camera lens setting.
4. Q: Why some channels display just a blank screen even if they receive video sources?  
A: Check if the camera is connected to the system properly displays the image; check if the camera is properly supplied with power.
5. Q: Can the DVR have problems if it gets too hot, how can I prevent this?  
A: The DVR has a fan to help it dissipate heat while it is running. Please place the DVR in a place where there is good air circulation and away from heat sources to increase stability and life of the DVR.
6. Q: "Record" Can not work normally, how to deal with?  
A: Check if the current screen is in Play mode, pressing [Stop] button to exit the Play mode and then you can enter into the [Record] function.
7. Q: Why the Remote Controller can't work normally?  
A: Check if the battery is power off; or check if the Remote Controller is broken.
8. Q: Can we records whilst playing-back?  
A: Yeah, you can do it. The system support you records whilst playing-back.
9. Q: Can we erase some recorded file from DVR.  
A: Considering the safety factor, you can't delete the recorded file directly from the device. When you actually erase all the recorded files, please select HDD format function
10. Q: Why does the Buzzer keep sounding?  
A: Please check if motion detection is on and the system has detected motion, make sure the HDD is being detected and has sufficient space available; check if video has lost etc.
11. Q: Why can't stop [Stop] function?

A: Pressing [Stop] button only can stop manual record. If you want to stop Scheduled record, please revise to [No Record] during this period.

## 8.7 System Configuration



## 8.8 Accessory



Power Cord



Power Supply



User Manual



USB Mouse



Remote Controller



Software CD



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