

# DVR User Manual

For H.264 8-channel digital video recorder  
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<http://www.e-camere.ro/dvr/PROsee/D-D08SH>

## CAUTION

- Please read this user manual carefully to ensure that you can use the device correctly and safely.
- There may be several technically incorrect places or printing errors in this manual. The updates will be added into the new version of this manual. The contents of this manual are subject to change without notice.
- This device should be operated only from the type of power source indicated on the marking label. The voltage of the power must be verified before using. If the device doesn't work for a long time, pull out the plug from the socket.
- Do not install this device near any heat sources such as radiators, heat registers, stoves or other device that produce heat.
- Do not install this device near water. Clean only with a dry cloth.
- Place the device in a well-ventilated area.
- Do not power off the DVR at normal recording condition! The correct operation to shut off DVR is to stop recording firstly, and then to select "shut-down" button at the right of the menu bar to exit, and finally to cut off the power.
- This machine is indoor using equipment. Do not expose the machine in rain or moist environment. In case any solid or liquid get into the machine's case, please cut off the power supply immediately, and ask for qualified technicians to check the machine before restart
- Do not try to repair the device by yourself without technical aid or approval.
- When this product is in use, the relevant contents of Microsoft, Apple and Google will be involved in. The pictures and screenshots in this manual are only used to explain the usage of our product. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google shall belong to the above-mentioned companies.
- This manual is suitable for 8-channel digital video recorders.

<http://www.e-camera.com/PROSE/P/D08H>

# Table of Contents

<b>1 Introduction.....</b>	<b>1</b>
1.1 DVR Introduction.....	1
1.2 Main Features.....	1
<b>2 Hardware Installation.....</b>	<b>3</b>
2.1 Install Hard Drive.....	3
2.2 Front Panel Descriptions.....	3
2.3 Rear Panel Instructions.....	4
2.4 Remote Controller.....	5
2.5 Control with Mouse.....	5
2.5.1 Connect Mouse.....	5
2.5.2 Use Mouse.....	6
<b>3 Basic Function Instruction.....</b>	<b>7</b>
3.1 Power On/Off.....	7
3.1.1 Power On.....	7
3.1.2 Power Off.....	7
3.2 Login.....	7
3.3 Live Preview.....	8
3.4 Live Playback.....	8
<b>4 Main Menu Setup Guide.....</b>	<b>10</b>
4.1 Basic Configuration.....	11
4.1.1 System.....	11
4.1.2 Time & Date.....	12
4.1.3 DST.....	12
4.2 Live Configuration.....	13
4.2.1 Live.....	13
4.2.2 Main Monitor.....	14
4.2.3 Spot.....	15
4.2.4 Mask.....	15
4.3 Record Configuration.....	16
4.3.1 Enable.....	16
4.3.2 Record Bitrate.....	17
4.3.3 Time.....	17
4.3.4 Stamp.....	18
4.3.5 Recycle Record.....	19
4.3.6 Snap.....	19
4.4 Schedule Configuration.....	19
4.4.1 Schedule.....	19
4.4.2 Motion Schedule.....	20
4.5 Alarm Configuration.....	21

4.5.1 Motion Alarm .....	21
4.5.2 Video Loss .....	22
4.5.3 Other Alarm .....	23
4.5.4 Alarm Out .....	23
4.6 Network Configuration .....	24
4.6.1 Network .....	24
4.6.2 Sub Stream .....	25
4.6.3 Email .....	26
4.6.4 Server .....	26
4.6.5 Other Settings .....	27
4.7 User Management Configuration .....	27
4.8 PTZ Configuration .....	30
4.9 Advanced .....	34
4.9.1 Reset .....	34
4.9.2 Import/Export .....	34
4.9.3 Block/Allow List .....	34
<b>5 Search, Playback &amp; Backup .....</b>	<b>35</b>
5.1 Time Search .....	35
5.2 Event Search .....	35
5.3 File Management .....	36
5.4 Search by Image .....	37
5.5 Backup .....	37
<b>6 Manage DVR .....</b>	<b>39</b>
6.1 Check System Information .....	39
6.1.1 System Information .....	39
6.1.2 Event Information .....	39
6.1.3 Log Information .....	39
6.1.4 Network Information .....	39
6.1.5 Online Information .....	39
6.1.6 Record Information .....	39
6.2 Disk Management .....	39
6.3 Upgrade .....	40
6.4 Logoff .....	40
<b>7 Remote Surveillance .....</b>	<b>41</b>
7.1 IE Remote Surveillance .....	41
7.1.1 On LAN .....	41
7.1.2 On WAN .....	41
7.2 Remote Surveillance through Apple PC .....	42
7.2.1 On LAN .....	42
7.2.2 On WAN .....	44
7.3 The Remote Live Preview .....	44
7.4 Remote Playback & Backup .....	47

7.4.1 Remote Playback .....	47
7.4.2 Remote Backup .....	50
7.5 Remote System Configuration.....	50
7.6 Tools .....	51
7.7 Remote Management.....	51
<b>Appendix A FAQ.....</b>	<b>52</b>
<b>Appendix B Calculate Recording Capacity.....</b>	<b>56</b>
<b>Appendix C Compatible Devices.....</b>	<b>57</b>
<b>Appendix D 8-CH Specifications.....</b>	<b>58</b>

<http://www.e-camere.ro/dvr/PROsee/PD-DOCT>

# 1 Introduction

## 1.1 DVR Introduction

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This model DVR (Digital Video Recorder) is designed specially for CCTV system. It adopts high performance video processing chips and embedded Linux system. Meanwhile, it utilizes many most advanced technologies, such as standard H.264 with low bit rate, Dual stream, SATA interface, VGA output mouse supported, IE browser supported with full remote control, mobile view(by phones), etc., which ensure its powerful functions and high stability. Due to these distinctive characteristics, it is widely used in banks, telecommunication, transportation, factories, warehouse, and irrigation and so on.

## 1.2 Main Features

---

### COMPRESSION FORMAT

- Standard H.264 compression with low bit rate and better image quality

### LIVE SURVEILLANCE

- Supports HDMI/ VGA/BNC output
- Supports channel security by hiding live display
- Display the local record state and basic information
- Supports USB to make full control

### RECORD MEDIA

- Supports one SATA HDD to record for a longer time without any limitation

### BACKUP

- Supports USB 2.0 devices to backup
- Supports saving recorded files with AVI standard format to a remote computer through internet

### RECORD & PLAYBACK

- Record modes: Schedule, Motion detection alarm recording
- Supports recycle after HDD full
- Resolution, frame rate and picture quality are adjustable
- Supports 8 CH-D1 real-time recording and playback
- 2 audio channels available
- Three record search modes: time search, event search and image search
- 8 screen playback simultaneously
- Supports deleting and locking the recorded files one by one
- Supports remote playback in Network Client through LAN or internet

### ALARM

- Supports schedule for motion detection
- Supports pre-recording and post recording

## SECURITY

- Customize user right: log search, system setup, two way audio, file management, disk management, remote login, live view, manual record, playback, and remote live view
- Supports 1 administrator and 63 users.
- Supports event log recording and checking, events unlimited

## NETWORK

- Supports TCP/IP, DHCP, PPPoE, DDNS protocol
- Supports IE browser to do remote view
- Supports setup client connection amount
- Supports dual stream. Network stream is adjustable independently to fit the network bandwidth and environment.
- Supports picture snap and color adjustment in remote live
- Supports remote time and event search, and channel playback with picture snap
- Supports remote full menu setup, changing all the DVR parameters remotely
- Supports mobile surveillance by phones with iPhone, Android & Blackberry OS
- Supports CMS/NVMS to manage multi devices on internet

## 2 Hardware Installation

### 2.1 Install Hard Drive

Check the unit and the accessories after getting the DVR. Please don't power up the unit till the physical installation is complete.

**Notice:** 1. This series support one SATA hard drives. Please use the hard drive the manufacturers recommend specially for security and safe field.

2. Please calculate HDD capacity according to the recording setting. Please refer to "Appendix B Calculate Recording Capacity".

**Step 1:** Unscrew and open the top cover.

**Step 2:** Connect the power and data cables. Place the HDD onto the bottom case as Fig 2-1.

**Step 3:** Screw the HDD as Fig 2-2.



Fig 2-1 Connect HDD



Fig 2-2 Screw HDD

**Note:** For convenience installation, please connect the power and data cables first and then wind the screws to fix the HDD.

### 2.2 Front Panel Descriptions

**Notice:** The front panel descriptions are only for reference; please make the object as the standard.

One kind of front panel

Name	Description
REC	When recording, the light is blue
Net	When access to network, the light is blue
Power	Power indicator, when connection, the light is blue
Fn	Switch the output between VGA and BNC

The other kind of front panel



Name	Description
Power indicator	Power Indicator, when connected, the light is blue.
HDD indicator	The light turns blue when reading/writing HDD.
Net indicator	The light turns blue when it is able to access the network.
Backup indicator	The light turns blue when backing up files and data.
Play indicator	The light turns blue when playing video.
REC indicator	The light turns blue when recording
Record button	Record manually
Play button	Enter play interface
REW button	Rewind key
FF button	Fast forward
MENU/+ button	1. Enter menu in live 2. Increase the value in setup
BACKUP/- button	1. Decrease the value in setup 2. Enter backup mode in live
STOP/ESC button	1. Quit play mode 2. Exit the current interface or status
Direction button/ Multi-screen	Change direction to select items Change screen display mode like 1/4/9/16 channel
Enter button	Confirm selection
IR	For remote controller

### 2.3 Rear Panel Instructions

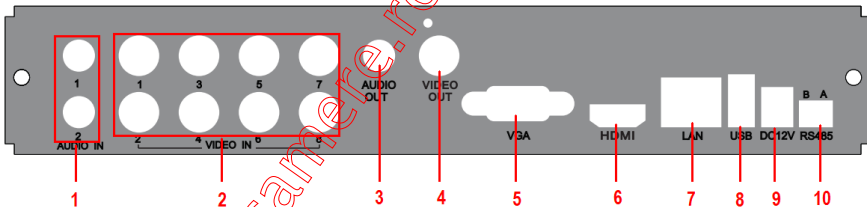


Fig 2-3 Rear Panel for 8-ch

Item	Name	Description
1	Audio in	2-CH Audio inputs
2	Video in	Video input channels from 1-8
3	Audio out	Audio output, connect to the sound box
4	Video out	Connect to monitor
5	VGA port	VGA output, connect to monitor
6	HDMI port	Connect to high-definition display device
7	LAN	Network port
8	USB port	Connect USB mouse or connect external USB devices
9	DC12V	POWER INPUT
10	RS485	Connect to speed dome or keyboard (A is TX+, B is TX-)

## 2.4 Remote Controller

It uses two AAA size batteries.

**Step 1:** Open the battery cover of the remote controller.

**Step 2:** Place batteries. Please take care the polarity (+ and -).

**Step 3:** Replace the battery cover.

If it still doesn't work, please change a new remote controller to try, or contact your dealers.

The interface of remote controller is shown in Fig 2-4 Remote Controller.

*Key points to check in case the remote doesn't work.*

1. Check batteries polarity.
2. Check the remaining charge in the batteries.
3. Check IR controller sensor for any masking.
4. Check the ID of the remote with respect to the DVR.



Fig 2-4 Remote Controller

Button	Function
<b>REC</b>	Record manually
<b>Search</b>	To enter search mode.
<b>MEUN</b>	To enter menu.
<b>Exit</b>	To exit the current interface.
<b>ENTER</b>	To confirm the choice or setup.
<b>Direction button</b>	To move cursor in setup
<b>ZOOM</b>	To zoom in
<b>PIP</b>	To set picture in picture
<b>▶▶▶▶▶▶▶▶▶▶</b>	To control playback. Play/Pause/Stop/Previous
<b>■◀◀◀◀◀◀◀◀◀</b>	Section/Next Section/Rewind/Fast Forward
<b>Multi</b>	To choose multi screen display mode.
<b>Next</b>	To switch between single picture and picture group
<b>SEQ</b>	To enter into auto dwell mode
<b>INFO</b>	Get information about DVR like firmware version, HDD information

## 2.5 Control with Mouse

### 2.5.1 Connect Mouse

It supports USB mouse through the ports on the rear panel.

If mouse is not detected or doesn't work, check below steps:

1. Make sure the mouse is plugged in the USB mouse port.
2. Try with a good know mouse.

## 2.5.2 Use Mouse

### During live:

Double-click on any camera window to see the full screen. Double-click again to return to the previous screen.

Right click to reveal the control menu on the screen. Right click again to hide the menu.

### In Configuration:

Click to enter a particular option. Right click to cancel the option or to return to the previous menu.

In order to input a value in a particular screen, move cursor to the input box and click. An input window will appear as Fig 2-5. It supports digits, alphabets and symbols input. Click Shift button to input Capital letters and symbols; click Shift button again to return.

It supports mouse drag. Take setting up motion detection area for example: Click customized, hold down the left button and drag to set motion detection area.

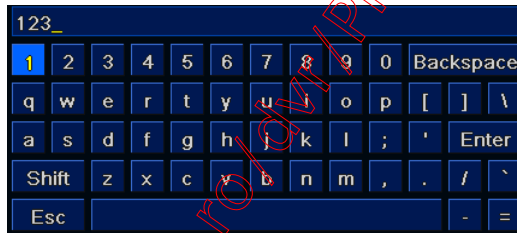


Fig 2-5 Digital Numbers and Letters Input Window

### In Playback:

Click to choose the options. Right click to return to live mode.

### In Backup:

Click to choose the options. Right click to return to previous picture.

---

*Note: Mouse is the default tool for all operations unless an exception, as indicated.*

---

## 3 Basic Function Instruction

### 3.1 Power On/Off

Before you power on the unit, please make sure all the connection is good.

#### 3.1.1 Power On

**Step 1:** Connect with the source power.

**Step 2:** The device will boot and the power LED would turn blue.

**Step 3:** A WIZZARD window will pop up and show some information about time zone, time setup, network configuration, record configuration and disk management. User can setup here and refer to the concrete setup steps from the corresponding chapters. If users don't want to setup Wizard, please click Exit button to exit.

---

*Note: Long press Fn/ESC key can switch the output between BNC and VGA.*

---

#### 3.1.2 Power Off


User can power off the device by using remote controller, keyboard and mouse.

**By remote controller:**

**Step 1:** Press Power button. This will take you to a Shut down window. The unit will power off after a while by clicking OK button.

**Step 2:** Disconnect the power

**By keyboard and mouse:**

**Step 1:** Enter into  Menu and then select "Shut Down" icon to pop up the Shut down window.

**Step 2:** Click OK. Then the unit will power off after a while.

**Step 3:** Disconnect the power.

### 3.2 Login

User can login or log off the DVR system. Once logged off the user cannot do any other operation except changing the multi-screen display.

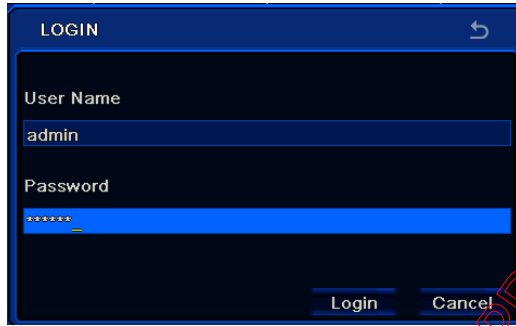


Fig 3-1 Login

**Notice:** The default user name and password is “admin” and “123456”.  
For complete operational steps for changing password, adding or deleting users, please refer to section 4.7 User Management Configuration.

### 3.3 Live Preview

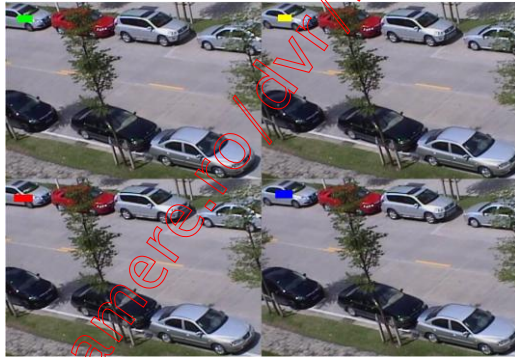


Fig 3-2 Live Preview Interface

Symbol	Meaning
Green	Manual record
Yellow	Motion detection record
Blue	Schedule record

### 3.4 Live Playback

Click Play button to playback the record. Refer to Fig 3-3. User can do complete operation by clicking the buttons on screen.



Fig 3-3 Live Playback

## 4 Main Menu Setup Guide

Click right mouse or press FN button on the front panel and then the control bar will display at the bottom of the screen. Refer to Fig 4-1:

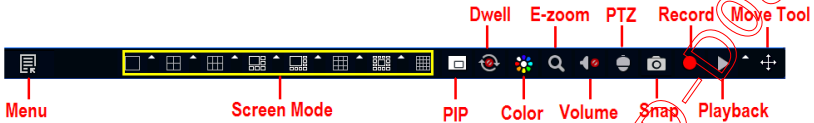


Fig 4-1 Main Menu Toolbar

**Screen mode:** Click to select screen mode like 1/4/6/9 channels. Images can drag to any place to display in the live interface.

**PIP:** Click this button to select a channel and then click “None” button to select and save another channel. After that, you will see a picture in picture.

**Dwell:** Dwell means to display live images from different cameras in a sequence. The images may be displayed as a single channel or in a grid fashion from different cameras. Dwell mode is enabled only when the chosen display mode is not able to display all the available cameras.

**Color:** If this button is enabled, you can adjust the color of live pictures.


**E-Zoom:** Single channel large screen electronic amplification.


**Audio:** Enable sound.

**PTZ:** Click this button to control rotation position, speed and auto scan of the PTZ connected to the IP camera.

**Snap:** Use this button to take snapshots. These pictures will automatically be saved in the HDD.

**Record:** Click this button to start/stop recording.

**Playback:** Click this button to playback the record files. Click  icon beside the playback icon to select playback time. For example, if 2 minutes is selected and then click playback button, it will start to play from the past 2 minutes.

User can click  button and drag it anywhere with the left mouse.

Click Main Menu button to pop up a window as Fig 4-2. You can also press MENU button on the front panel or operate with remote controller to display the main menu. Clicking Setup icon will pop-up the configuration menu:

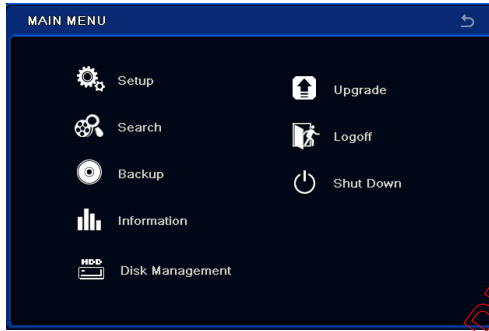


Fig 4-2 Setup

## 4.1 Basic Configuration

Basic configuration includes three sub menus: system, date & time and DST.

### 4.1.1 System

**Step 1:** Enter into Menu→Setup→Basic →System interface. Refer to Fig 4-3:

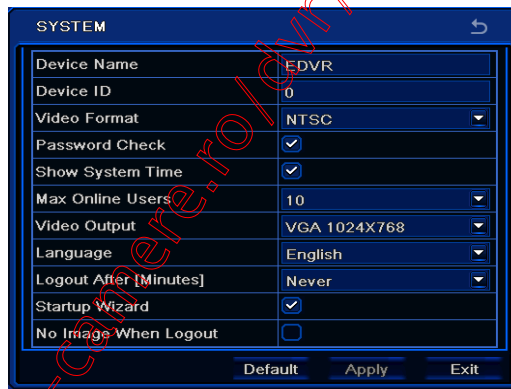


Fig 4-3 Basic Configuration-System

**Step 2:** In this interface you can setup the device name, device ID, video format, max network users, VGA resolution, language and so on. The definitions for every parameters display as below:

**Device Name:** The name of the device. It may display on the client end or CMS that help user to recognize the device remotely.

**Device ID:** This ID is used to map the DVR with IR remote controller and speed dome cameras.

**Video Format:** Two modes: PAL and NTSC. User can select the video format according to that of camera.

**Password Check:** If this option is enabled, the user would need to input the user name and the password for performing corresponding operations.



**Show System Time:** If selected, the current time will be displayed during live monitoring.

**Max Online Users:** To set the max number of concurrent user logins in the DVR.

**Video Output:** The resolution of live display interface, range from: VGA800\*600, VGA1280\*1024 and HDMI.

---

*Note:* Switching between VGA and HDMI will change the menu output mode. Please connect to relevant monitor.

---

**Language:** Setup the menu language.

---

*Note:* After changing the language and video output, the device needs to login again.

---

**Logout After (Minutes):** A user can setup the screen interval time (30s, 60s, 180s, 300s). If there is no any operation within the setting period, the device will auto logout and return to login interface.

**Show Wizard:** If selected, the GUI would launch the startup wizard on every boot, allowing the user to do basic setup.

**No Image When Logout:** If selected, there will be no image showing when logging out.

## 4.1.2 Time & Date

**Step 1:** Enter into Menu→Setup→Basic →Date & Time interface. Refer to Fig 4-4:



Fig 4-4 Basic Configuration-Date & Time

**Step 2:** Set the date format, time format, time zone in this interface; checkmark “sync time with NTP server” to refresh NTP server date. You can also adjust system date manually.

**Step 3:** Click “Apply” button to save the setting.

## 4.1.3 DST

**Step 1:** Enter into Menu→Setup→Basic →DST interface. Refer to Fig 4-5:

**Step 2:** In this interface, enable daylight saving time, time offset, mode, start & end

month/week/date, etc.

**Step 3:** Click “Apply” button to save the setting.

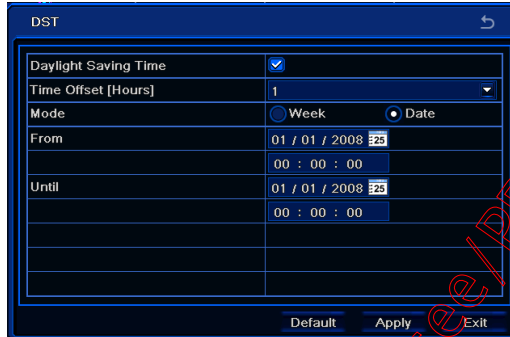


Fig 4-5 Basic Configuration-DST

## 4.2 Live Configuration

Live configuration includes four submenus: live, main monitor, spot and mask.

### 4.2.1 Live

In this interface, you can setup camera name and adjust colors.

**To setup camera name:**

**Step 1:** Enter into Menu→Setup→Live. Refer to Fig 4-6:



Fig 4-6 Live Configuration→Live

**Step 2:** A software keyboard will pop up by clicking camera name area. Click the letters and (or) digital numbers on the keyboard to input the name you want to display in live image.

**Step 3:** Checkmark the camera name in the show name area.

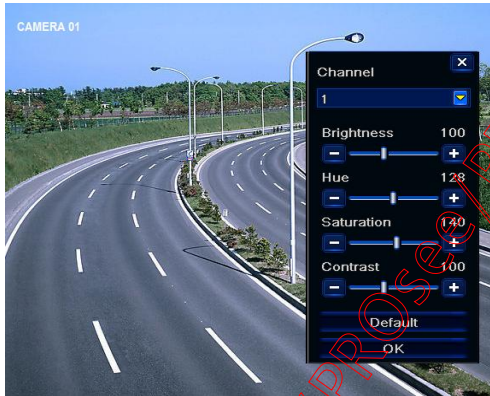
All channels will show the camera name by checking “All” checkbox.

**Step 4:** Click “Apply” to save the setting.

**To setup color:**

**Step 1:** Click “Setting” button for a particular camera/channel to see a window as below:

**Step 2:** In this interface, you can adjust brightness, hue, saturation and contrast in live. Click “OK” button to save the setting.

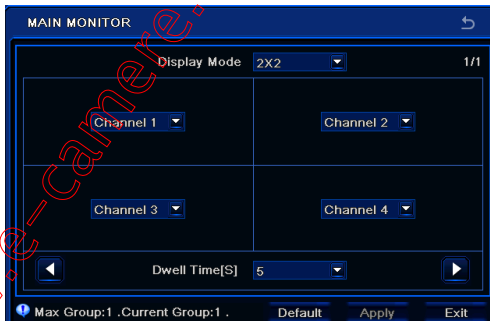


## 4.2.2 Main Monitor

The main monitor settings allow you to set camera sequence in live display mode.

Operate the following steps to set main monitor:

**Step 1:** Enter into Menu→Setup→Live →Main Monitor interface. Refer to Fig 4-7:



**Fig 4-7 Live Configuration-Main Monitor**

**Step 2:** Select display mode and channel.

**Step 3:** Select dwell time. Click ◀ button to setup the previous channel groups of dwell picture. Click ▶ button to set the latter channel groups of dwell picture.

**Step 4:** Click “Apply” to save the setting.

**Step 5:** Click “Dwell” button on the menu bar in the live interface. Then the live image will display in sequence according to your settings.

## 4.2.3 Spot

**Step 1:** Enter into Menu→Setup→Live →Main Monitor interface. Refer to Fig 4-8:

**Step 2:** Select channel.

**Step 3:** Select dwell time. Click ◀ button to setup the previous channel groups of dwell picture. Click ▶ button to set the latter channel groups of dwell picture.

**Step 4:** Click “Apply” to save the setting.

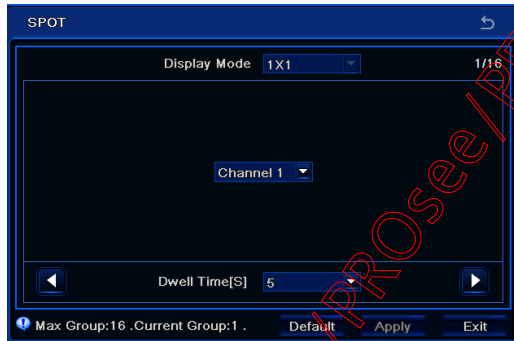


Fig 4-8 Spot

## 4.2.4 Mask

If there is something you don't want to display in the live image. You can set mask. For a given channel a maximum of three areas can be masked.

**To setup mask area:**

**Step 1:** Enter into Menu→Setup→Live →Mask interface.

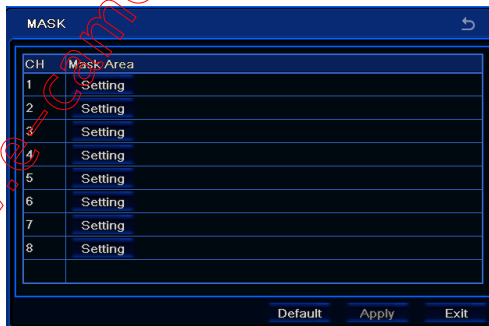


Fig 4-9 Live Configuration-Mask

**Step 2:** Click Setting button to go into live image.

**Step 3:** Press and drag the left mouse button to set mask area as shown below.

**Step 4:** Right click to exit the mask setting interface.

**Step 5:** Click Apply button to save the setting.

**To delete mask area**

**Step 1:** Click Setting button in the mask interface.

**Step 2:** Select a certain masked area and double click to delete that masked area.

**Step 3:** Then click Apply button to save the setting.



**Setup Mask Area**

### 4.3 Record Configuration

Record configuration includes six sub menus: enable, record bit rate, time, recycle record, stamp and snap.

Before Configuration, please make sure your DVR has been installed with HDD and has completed its initialization.

#### 4.3.1 Enable

**Step 1:** Enter into Menu→Setup→Record→Enable interface. Refer to Fig 4-10:



**Fig 4-10 Record Configuration-Enable**

Parameter	Meaning
Record	To enable/disable recording for the channel
Audio	To enable/disable audio recording for the channel

**Step 2:** Checkmark record and audio.

**Step 3:** Select All to setup the same settings for all channels.

### 4.3.2 Record Bitrate

**Step 1:** Enter into Menu→Setup→Record →Record Bitrate. Refer to Fig 4-11:

**Step 2:** Setup rate, resolution, quality, encode and max bit stream.

**Step 3:** Select “All” to set the same settings for all channels.

**Step 4:** Click “Apply” button to save the setting.

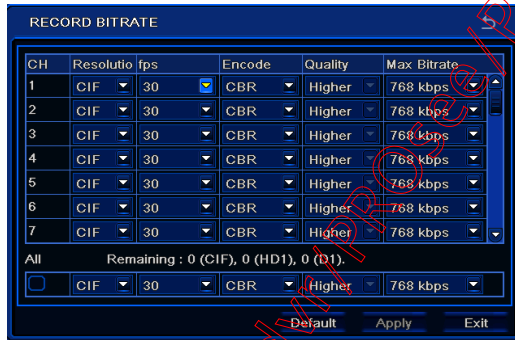


Fig 4-11 Record Configuration-Record Bitrate

Parameter	Meaning
<b>Rate</b>	1~30fps(NTSC)/1~25(PAL)
<b>Resolution</b>	CIF, HD1, D1
<b>Quality</b>	The higher the value is, the clearer the recorded image is. Six options: lowest, lower, low, medium, higher and highest.
<b>Encode</b>	VBR and CBR
<b>Max bit stream</b>	Range from: 256 kbps~2048kbps

### 4.3.3 Time

**Step 1:** Enter into Menu→Setup→Record → Time interface to set recording time. Refer to Fig 4-12:

**Step 2:** Set Pre-alarm record time and post-alarm record time. Select “All” to set the same settings for all channels.

**Pre-alarm Record Time:** Set the time in seconds to pre-record before the actual recording begins.

**Post-alarm Record Time:** Set the time in seconds to post-record after the actual recording has finished, five options: 10s, 15s, 20s, 30s, 60s, 120s, 180s and 300s.

**Expire Time:** Set the expiration time for recorded video. If the set date is overdue, the

recorded files will be deleted automatically.

**Step 3:** Click “Apply” to save the setting.



**Fig 4-12 Record Configuration-Time**

#### 4.3.4 Stamp

This provides an option to enable or disable the Camera Name and the Time stamp on the video. The user can also choose a position for the stamp on the screen.

To setup stamp as follows:

**Step 1:** Enter into Menu → Setup → Record → Stamp interface. Refer to Fig 4-13:



**Fig 4-13 Record Configuration-Stamp**

**Step 2:** Checkmark camera name and time stamp. Click Setting button to setup the position of the stamp. You can drag the camera name and time stamp at random positions.



Before drag



After drag

**Step 3:** Select “All” to setup all channels with the same parameters.

### 4.3.5 Recycle Record

This option is used to recycle the HDD space once it is full. If enabled, the system will automatically delete the old records and recycle the space if it is completely utilized. The setting steps are as follows:

**Step 1:** Enter into Menu→Setup→Record →Recycle Record interface;

**Step 2:** Checkmark recycle record to activate auto recycling. If the option is disabled or not selected, the DVR would stop recording once HDD is full.

**Step 3:** Click “Apply” button to save the setting.

### 4.3.6 Snap

In this interface, user can set up Resolution, quality, snap interval, snap number.



## 4.4 Schedule Configuration

Schedule configuration includes two sub menus: schedule and motion.

### 4.4.1 Schedule

This tab allows defining schedule for normal recording for seven days of a week, 24 hours of a day. Every row denotes an hourly timeline for a day. Click the grid to do relevant setup. A highlighted area denotes selected timeline. Operate the following steps to set schedule:

**Step 1:** Enter into Menu→Setup→Schedule interface. Refer to Fig 4-14:

**Step 2:** Select channel and click “” button to add a certain day schedule. Click “” button to delete the selected schedule.

If you want to apply the schedule setting of a certain channel to other or all channels, you need to select channel and click “Copy” button.



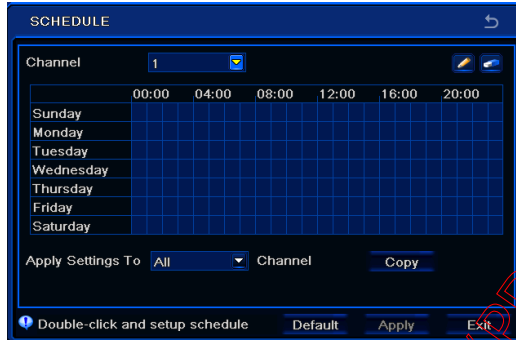


Fig 4-14 Schedule Configuration-Schedule

You can also set week schedule by double-clicking in the grinding area. This will take you to see a dialog box as Fig 4-15.

**Step 1:** Select a day and click “Add” button to schedule start time and end time. Then click  to save.

**Step 2:** Select other days and add schedule or copy settings from one schedule to the others under the Apply Settings To item.

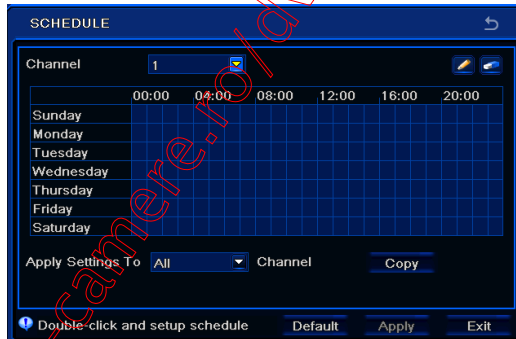


Fig 4-15 Schedule-Week Schedule

#### 4.4.2 Motion Schedule

This tab allows to set schedule for motion based recording. The setting steps are as follows:

**Step 1:** Enter into Menu→Setup→Schedule →Motion tab.

**Step 2:** The setup steps for schedule for motion based recording are similar to normal schedule setup. You can refer to 4.4.1 Schedule for details.

**Note:** The default schedule of motion based recording is 24 x 7. If you want to activate motion based recording, you must enable motion alarm and setup schedule for motion alarm (see Chapter 4.5.1 Motion Alarm for more details).

## 4.5 Alarm Configuration

Alarm configuration includes four sub menus: motion, video loss, other alarm and alarm out.

### 4.5.1 Motion Alarm

Motion includes two sub menus: motion and schedule. The steps to set motion alarm are as follows:

**Step 1:** Enter into Menu→Setup→Alarm →Motion. Refer to Fig 4-16:

**Step 2:** Enable motion alarm, set alarm hold time which refers to the time till which the system will wait for further detection of motion. e.g. If the holding time is set to 10 seconds, once the system detects a motion, it will go into alarm but would not detect any other motion alarm (specific to channel) until 10 seconds. If there is other motion detected during this period it is considered it as continuous movement, otherwise it will be considered as a single motion.



Fig 4-16 Alarm Configuration-Motion

**Step 3:** Click “Setting” button under the Trigger area. Then a window will pop up as below:



Fig 4-17 Alarm Configuration-Motion Trigger

**Buzzer:** If selected, the local buzzer would be activated on an alarm.

**Show Full Screen:** If selected, there will pop up the chosen channel on the monitor on an alarm trigger.






**Email:** If selected, the DVR will send an email alert to the preconfigured email address in case of a motion based alarm from the particular input.

**Snap:** If selected, the system will snap images of the checked channels on an alarm and save them in the HDD automatically.

**Step 4:** Enter into To Record tab. Select recording channels. It would be recorded in case of an alarm. Click OK button to save the setting.


**Step 5:** Enter into To PTZ tab. Set preset, cruise and track options for a PTZ in case of a motion based alarm. Single or multiple PTZ units could be programmed to perform this function on the same alarm.

**Step 6:** After clicking Area button, a dialog box will pop-up as Fig 4-18.

**Step 7:** In the Area interface, you can drag slide bar to set the sensitivity value (1-8). The higher the value is the more sensitive it is to motion. Since the sensitivity is influenced by color and time (day or night), you can adjust its value according to the practical conditions. Left click the grid and drag to delete area. Click  icon to set the whole area as detection area. Click  icon to clear the set detection area. Click  icon to test the sensitivity as per the local conditions. Once motion is sensed, it displays a figure icon. Click  icon, to save the setting. Click  icon to exit the current interface.



**Fig 4-18 Motion-Area**

**Note:** Prior to setting motion detection field it is recommended that you click  icon to clear the existing field and set afresh.

**Step 8:** Select “All” to set the same settings for all channels.

**Step 9:** Click “Apply” button to save the setting.

**Step 10:** Enter into Schedule tab. The setting steps for schedule for motion based alarm are similar to normal schedule setup (see Chapter 4.4.1 for more details).

## 4.5.2 Video Loss

This DVR can be set up to detect video loss. The setting steps are as follows:

**Step 1:** Enter into Menu→Setup→Alarm →Video Loss. Refer to Fig 4-19:

**Step 2:** The setup steps of video loss trigger are similar to motion trigger setting. (See Chapter 4.5.1 Motion → Trigger setting for more details).

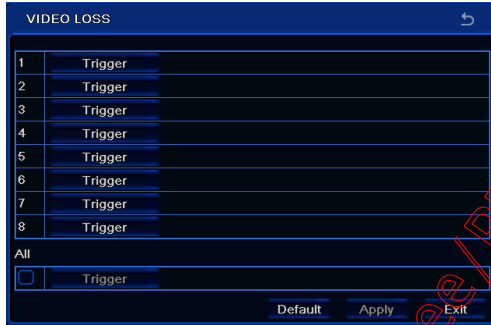


Fig 4-19 Alarm Configuration-Video Loss

### 4.5.3 Other Alarm

This tab gives a choice to configure alarm for Disk Full, IP Conflict, the Disconnect event, Disk Attenuation or Disk Lost.

**Step 1:** Enter into Menu → Setup → Other Alarm. Refer to Fig 4-20:

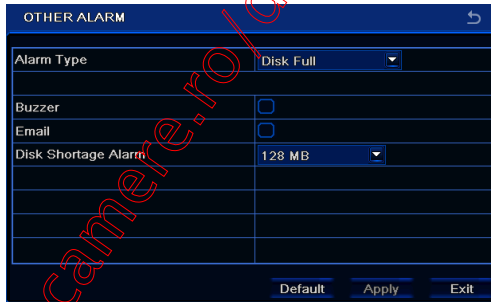


Fig 4-20 Other Alarm

**Step 2:** Use the dropdown menu and select the event or the alarm.

**Step 3:** Check the required trigger options.

If the selected event is “Disk Full”, then use the drop down box for “Disk Shortage Alarm” to choose a threshold value for remaining HDD space. If the threshold value is reached, the system will trigger the Disk Full Alarm.

**Step 4:** Click “Apply” to save the setting.

### 4.5.4 Alarm Out

**To setup alarm out:**

**Step 1:** Enter into Menu → Setup → Alarm Out. Refer to Fig 4-21:



Fig 4-21 Alarm Out

**Step 2:** Checkmark Buzzer and set buzzer alarm hold time. This would trigger the buzzer when the system is on an alarm.

## 4.6 Network Configuration

Network configuration includes five submenus: network, sub stream, Email, server and other settings. Network settings must be configured if DVR is used for monitoring over network.

### 4.6.1 Network

To set up network:

**Step 1:** Enter into Menu → Setup → Network → Network tab. Refer to Fig 4-22:

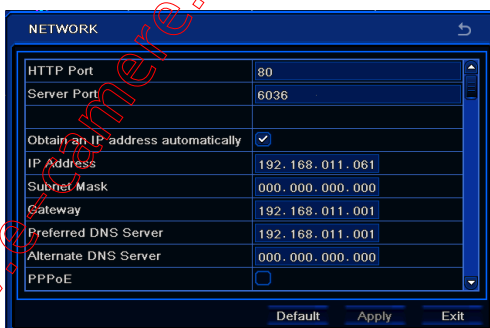


Fig 4-22 Network Configuration-Network

**Step 2:** Set HTTP port. The default HTTP port is 80. If the value is changed, you shall add the port number when typing IP address in IE address blank. e.g. If HTTP port is set to 82 and IP address is http://192.168.0.25, you should input the following IP address: http://192.168.0.25:82 into IE browser.

**Step 3:** Set server port. The default server port is 6036.

**Step 4:** Connect internet. There are three ways to connect internet.

- If you have a DHCP server running and would like your DVR to automatically obtain an

IP address and other network settings, check the checkbox beside "Obtain an IP address automatically". Then the device will distribute IP address, subnet mask, and gateway IP and DNS server.

- If you want to configure your own settings, disable “Obtain an IP address automatically” item and input the IP address, subnet mask, gateway IP and DNS server.
- If you connect internet through PPPoE, disable “Obtain an IP address automatically” item and check PPPoE checkbox and then enter username and password. Once the setup is completed, your DVR will automatically dial up into your network.

**Step 5:** Test the effectiveness of the network by clicking “Test” button after you set up the network.

**Step 6:** If the network is well connected, please click “Apply” button to save the setting.

### 4.6.2 Sub Stream

To setup sub stream:

**Step 1:** Enter into Menu→Setup→Network →Sub Stream interface. Refer to Fig 4-23:

**Step 2:** Select fps, resolution, quality, encode and max bit rate

**Step 3:** Select “All” to set the same settings for all channels.



Fig 4-23 Network Configuration-Sub Stream

Parameter	Meaning
<b>FPS</b>	Range from: 1-25
<b>Resolution</b>	Support CIF
<b>Quality</b>	The quality of the clients' image. The higher the value is, the clearer the record image. Six options: lowest, lower, low, medium, higher and highest.
<b>Encode</b>	VBR and CBR
<b>Max bit rate</b>	Range from: 32~768kbps

### 4.6.3 Email

#### To set up Email:

**Step 1:** Enter into Menu→Setup→ Network→Email interface. Refer to Fig 4-24:

**Step 2:** Set SMTP Server and port.

**SMTP Server/Port:** The name and port number of SMTP server. You can setup SSL check (such as Gmail) according to actual needs.

**Step 3:** Set sender's address and password.

**Step 4:** Set receiver's email address and click "Test" button to test the validity of the mailbox.

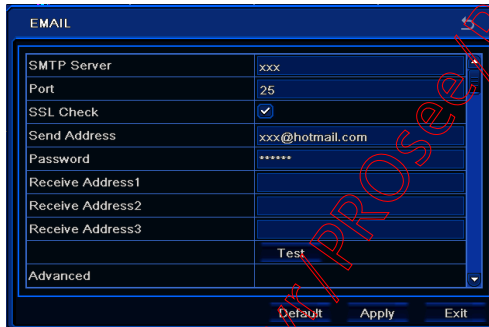


Fig 4-24 Network Configuration-Email

**Attaching image:** If selected, the system will attach images when sending emails.

### 4.6.4 Network Server

This function is mainly used for connecting ECMS/NVMS. The setting steps are as follows:

**Step 1:** In the server interface, select "Enable" as shown in the Fig 4-25.



Fig 4-25 Network Configuration-Server

**Step 2:** Check the IP address and port of the transfer media server in the ECMS/NVMS. The default server port for auto report is 2009. If it is modified, please enter into the transfer media interface to check.

**Step 3:** Enable the auto report in the ECMS/NVMS when adding a new device. Then input the remaining information of the device in the ECMS/NVMS. After that, the system will auto allot a Device ID. Please check it in the ECMS/NVMS.

**Step 4:** Input the above-mentioned server IP, server port and device ID in the server interface. Then click “Apply” button to save the setting. Now, the ECMS/NVMS system will automatically connect this device.

#### 4.6.5 Other Settings

If your DVR is set to use PPPoE as its default network connection, you may setup DDNS to be used in connection. The setting steps are as follows:

**Step 1:** Enable DDNS server.

**Step 2:** Select DDNS server.

**Step 3:** Enter user name, password and host domain name of the registered website.

**Step 4:** Click “Test” button to test the effectiveness of the relevant information.

**Step 5:** Click “Apply” button to save the setting.

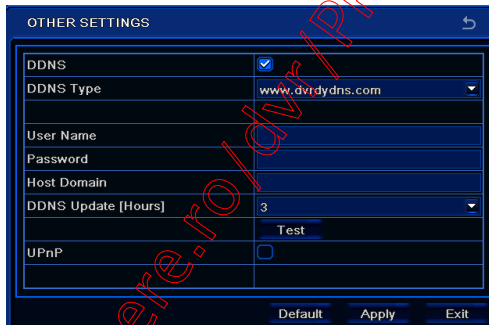


Fig 4-26 Network Configuration-Other Settings

**Note:** The domain name selected by user is a banding domain name of DVR. User should logon the website which provided by the server supplier to register a user name and password and then apply for a domain name online. After the successful application, user can access the device from the IE client by inputting that domain name.

**Enable UPnP:** Select UPnP here and then enable UPnP function in your router. Therefore, there is no need for you to forward LAN IP address and port in the router in connection of internet. After that, you can check the WAN IP address in the router.

**Domain name Registration** ( Take [www.dvrddns.com](http://www.dvrddns.com) for example )

**Step 1:** Input [www.dvrddns.com](http://www.dvrddns.com) in the IE address bar to visit its website. Then click “Registration” button to register as shown below.



Step 2: Create domain name.

Step 3: After you successfully request your domain name, you will see your domain in the list.

NAME	STATUS	DOMAIN
654321ABC		654321abc.dvrddns.com

➤ **DVR Setting**

Connect DVR to the Network Client.

**Step 1:** Enter into Main menu → Network → Other Settings, checkmark DDNS, select “dvrddns” at the DDNS Server pull down list box and input user name and password.

**Step 2:** Enter into configuration interface of the router to map the server port and IP address (if the user enables UPnP function, he can skip this step). Click Save button to save the setting

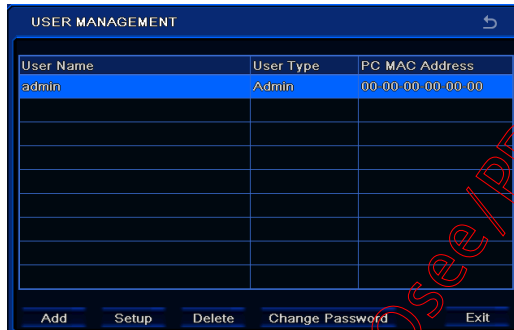
**Step 3:** Login IE browser and input registered domain name “http://www.xxx.dvrddns.com”, connect to DVR client.

DDNS server	
DDNS server	Website provided by dynamic domain name supplier. The optional: www.meibu.com , www.dyndns.com, www.no-ip.com, www.dvrddns.com, and mintdns type.
User name	User name for log in the website of domain name supplier
Password	Password for log in the website of domain name supplier
Host domain	The domain name user registered at the supplier’s website.
Update interval	The interval time of upgrading DVR IP address

## 4.7 User Management Configuration

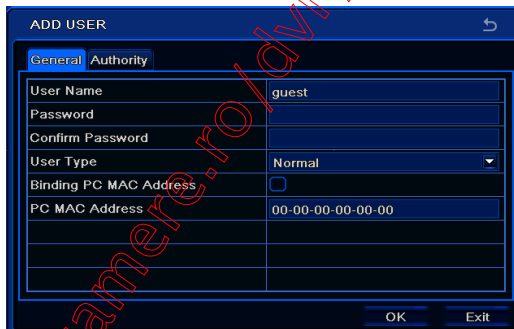
This tab allows you to add normal or advanced users. To add user and setup user authority:

**Step 1:** Enter into Menu→Setup→Users. Refer to Fig 4-27:



**Fig 4-27 User Management Configuration**

**Step 2:** Click Add button to display a dialog box as Fig 4-28:



**Fig 4-28 Add-General**

**Step 3:** In General tab, input username, password and select user type. You can also check “Binding PC MAC Address” and input this address.

**Step 4:** Click “OK” to save the setting.

---

***Note:** When the default value of binding PC MAC Address is 0, the user is not bound with the specified computer. If the bind option is used, the user would be able to log into the DVR only through the specific computer (carrying the MAC address).*

---

**Step 5:** Select Authority tab and then assign the operation rights for particular user. Refer to Fig 4-28.

**Step 6:** Click OK to save the setting.

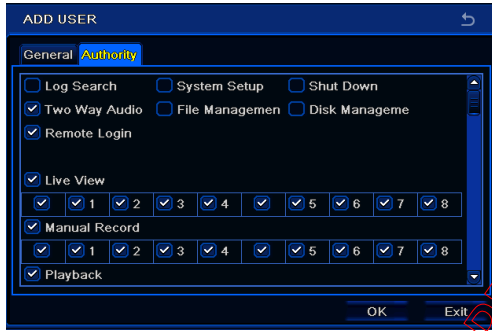


Fig 4-29 Add User-Authority

**To delete user:**

**Step 1:** Enter into Menu→Setup→Users interface.

**Step 2:** Select the added user you want to delete and then click “Delete” button.

**To modify user:**

**Step 1:** Enter into Menu→Setup→Users interface.

**Step 2:** Select the added user you want to modify and then click “Modify” button to do the relevant operation.

**To change user password**

**Step 1:** Enter into Menu→Setup→Users interface.

**Step 2:** Select the added user you want to change its password and then click “Change Password” button.

## 4.8 PTZ Configuration

P.T.Z configuration includes two submenus: serial port and advanced.

Serial port settings are as follows:

**Step 1:** Enter into Menu→Setup → P.T.Z →Serial Port interface. Refer to Fig 4-30:

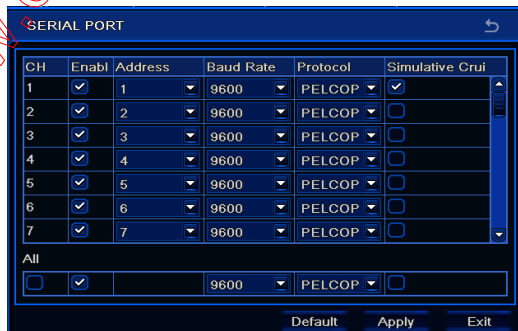


Fig 4-30 P.T.Z Configuration-Serial Port

Parameter	Meaning
Address	The address of the PTZ device
Baud rate	Baud rate of the PTZ device. Range form: 110, 300, 600, 1200, 2400, 4800, 9600, 19200, 34800, 57600, 115200, 230400, 460800, 921600.
Protocol	Communication protocol of the PTZ device. Range from: NULL, PELCOP, PELCOD, LILIN, MINKING, NEON, STAR, VIDO, DSCP, VISCA, SAMSUNG, RM110, HY, N-control.
Simulative Cruise	If enabled, no matter whether the PTZ device supports cruise or not, the presets will cruise.

**Step 2:** Select “Enable” and setup the value of address, baud rate and protocol according to the settings of the speed dome.

**Step 3:** Select “All” to set the same settings for all channels.

Advanced settings include preset setting, cruise setting and track setting. Enter into Menu → Setup → P.T.Z → Advanced. Refer to Fig 4-31:

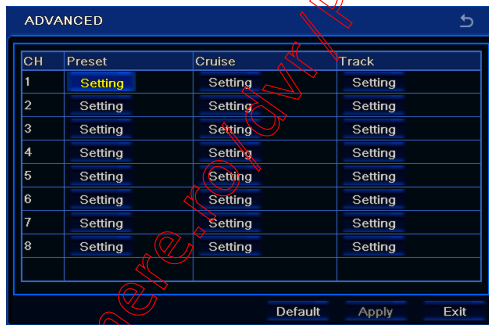


Fig 4-31 P.T.Z configuration-advanced

**To set up preset:**

**Step 1:** In the Advanced interface, click preset “Setting” button to see a dialog box as Fig 4-32:





Fig 4-32 Advanced-Preset Setting

**Step 2:** In the preset setting tab, enable preset, set the preset name and then click preset “Setting” button.



**Fig 4-33** Preset Setting



**Step 3:** Control the dome by rotating up, up left, down, right down, left, left down, right and up right and adjust the rotate speed and the value of zoom, focus and iris of the dome.

**Step 4:** Select the serial number of the preset point. Click  button to enable the PTZ wiper and click  button to enable the PTZ light.

---

*Note: PTZ must support wiper and light button and these two buttons are just available when selecting PELCOP or PELCQD.*

---

**Step 5:** Click Save button to save the setting. Click  icon to hide the tool bar. Right click to view this bar again. Click  icon to exit the current interface.

**Step 6:** Return to the Advanced-Preset Setting interface and click OK button to save the setting.

### To set up cruise:

**Step 1:** In the Advanced interface, click cruise “Setting” button to see a window as shown in Fig 4-34:



**Fig 4-34** Cruise Setting

**Step 2:** Click Add button to add cruise line in the list box (8 cruise lines can be added at most).

**Step 3:** Select a cruise line and click Setup button to see a dialog box as Fig 4-35:



Fig 4-35 Modifying Cruise Line

**Step 4:** Click icon to set the speed and time of preset point. Select a preset point and then click Delete icon to delete that preset point. Click Modify icon to modify the setting of a preset point. User can click those icons to adjust the position of preset point. Click Preview button to preview the cruise line. Click OK button to save the setting.

**To set up track:**

**Step1:** In the Advanced interface, click track “Setting” button to see a dialog box as Fig 4-36:




Fig 4-36 Track Setting

**Step 2:** Control the dome by rotating up, up left, down, right down, left, left down, right and up right and adjust the rotate speed and the value of zoom, focus and iris of the dome.

**Step 3:** Click Start Record button to record the move track of PTZ. Click this button again to stop record.

**Step 4:** Click Start track button to play recorded track. Click this button again to stop playing.

**Step 5:** Click  icon to exit the current interface.

After the completion of settings, please remember to click “Apply” to save the setting.

## 4.9 Advanced

Advanced configuration includes three submenus: reset, import/export and Block/Allow list.

### 4.9.1 Reset

Reset all settings the device will reboot.

### 4.9.2 Import/Export

User can export the data files into mobile storage devices as backup function, and then import specified data files from mobile storage device to DVR.

### 4.9.3 Block/Allow List



**Fig 4-37 Block/Allow List**

Here authorized user can prohibit computer users within a certain IP address range from accessing to DVR or allow computer users within a certain IP address range to access DVR. E.g. if an admin user doesn't want computer users within IP address range from 192.168.000.002 to 192.168.000.004 to access the DVR, he can check Block list option, and then input such IP address range. If it is required that computer users within a certain IP address range access DVR, they can check Allow List option and then do the required setting.

## 5 Search, Playback & Backup

Search configuration includes four submenus: time search, event search, file management and image.

### 5.1 Time Search

**Step 1:** Enter into Menu→Search →Time Search. Refer to Fig 5-1:

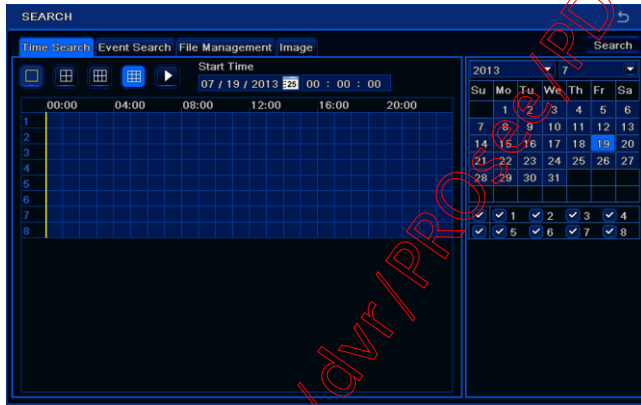

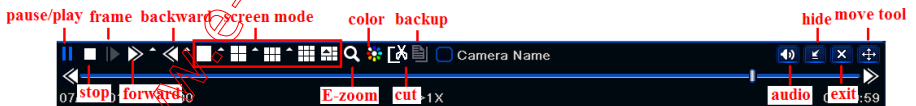


Fig 5-1 Search Configuration-Time Search



**Step 2:** Select date and channels on the right hand side and press the ‘Search’ button. A date with highlighted borderline indicates presence of data.

**Step 3:** Set the start time by clicking a particular grid or by entering the specific value in the start time field.

**Step 4:** Select the channel display mode and click Play  button to play record. Use the playback toolbar to control the playback.



➤ To set backup during a certain period in the playback interface:

Select the start time by dragging the slider and click  icon. Then select the end time and click this icon again to confirm the record period. Next, click  icon to backup the record during this period.

### 5.2 Event Search

**Step 1:** Enter into Menu→Search→Event Search button. Refer to Fig 5-2:





Fig 5-2 Search Configuration-Event Search

- Step 2:** Select date and channels on the right hand side. A data with highlighted borderline indicates presence of data.
- Step 3:** Checkmark Motion.
- Step 4:** Click Search button to display the searched event information in the event list box.
- Step 5:** Double check a certain record file to playback.

### 5.3 File Management

**Step 1:** Enter into Menu→Search→File Management interface. Refer to Fig 5-3:



Fig 5-3 Search Configuration-File Management

- Step 2:** Select date and channels. The date with highlighted borderline indicates presence of data.
- Step 3:** Click Search button to display the searched files in the file list box.
- Step 4:** Use “All” button to lock/unlock or delete all files in the file management column.

**Step 5:** Double click an unlocked item to play.

**Lock:** Select a file and click Lock button to lock this file, after that, that file will not be deleted or covered.

**Unlock:** Select a locked file and click “Lock” button to unlock this file

**Delete:** Select an unlocked file and click “Delete” button to delete this file.

## 5.4 Search by Image

**Step 1:** Enter into Menu → Search → Image tab.

**Step 2:** Select data and channels on the right hand side.

**Step 3:** Press “Search” button to search for a recorded image.

**Step 4:** Once an alarm image has been identified, the user can double click the image to play recording.

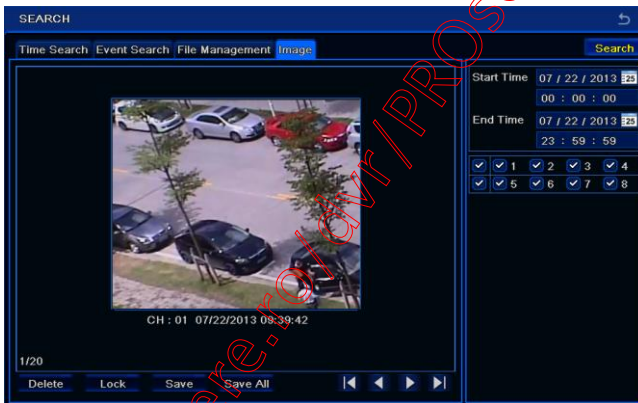


Fig 5-4 Search Configuration-Image

**Lock:** Select the image and click “Lock” button to lock this image.

**Save:** Click “Save” button to copy the image on the HDD.

**Save All:** Click “Save All” button to copy all images on the HDD.

## 5.5 Backup

This unit supports backup by USB Flash. You can also make backup by IE browser via internet (see section 7.3.2 Remote backup).

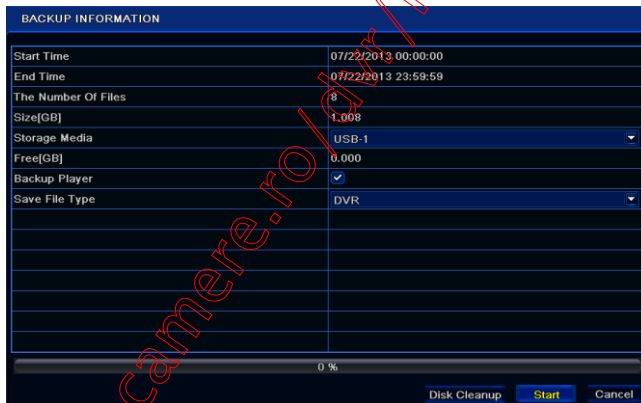
**Step 1:** Enter into backup configuration. Refer to Fig 5-5:

**Step 2:** Set the start & end time, select channels and click Search button to display the searched data in the data backup list box.



Fig 5-5 Backup Configuration

**Step 3:** Select a required file or checkmark “All” to select all data files. Click Backup button to display Backup information window.



**Step 4:** In the backup information interface, you can check the relevant information of backup files, storage type, save file type, etc. Then click Start button to start backup.

**Note:** If the backup files are saved in DVR format, please check backup player. Only this player can play these files in DVR format. If the backup files are saved in AVI format, you can play these files with common media player.

## 6 Manage DVR

### 6.1 Check System Information

Check system information includes six submenus: system, event, log, network, online user and record.

#### 6.1.1 System Information

---

In this interface, you can check the hardware version, MCU version, kernel version, device ID, etc.

#### 6.1.2 Event Information

---

In this interface, you can search for events like motion and video loss. The utility provides an interface to have a date based and a channel based search. This report can further be saved on a USB flash drive as an html file using the export button.

#### 6.1.3 Log Information

---

In this interface, you can search for relevant logs as per set date and event which includes Operation, Setup, Playback, Backup, Search, Check Information and Error. This report can further be saved on a USB flash drive as an html file using the export button.

#### 6.1.4 Network Information

---

In this interface, you can check relevant parameters of network.

#### 6.1.5 Online Information

---

In this interface, you can check the details of the connected online users.

**Refresh:** Refresh the current interface.

**Disconnect:** Disconnect the online users to access DVR. If this function is used by the admin, the particular PC will not be able to access the device for five minutes.

#### 6.1.6 Record Information

---

In this interface, a user can check resolution, ftp and record status including motion recording, or schedule recording.

## 6.2 Disk Management

**To format the disk**

**Step 1:** Enter into disk management interface

*Note: please format the hard disk before record.*

---

---

**Step 2:** Click Refresh button to refresh the disk information in the list box.

**Step 3:** Select a hard disk and click Format button to start format.

*Note: All recorded files in the hard disk will be lost after formatting.*

---

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#### **To check other information of disk**

After you enter into Disk Management → Advanced tab, you can check model, S/N, firmware, health status of the disk in this interface. You also can monitor the temperature, internal circuit, dielectric material of the disk, analysis the potential problems of the disk and warn so as to protect its data.

### **6.3 Upgrade**

At present, it only supports USB update. Get the software from your vendor when there is a new software version.

The upgrade steps are as follows:

**Step 1:** Copy the upgrade software which gets from vendor into the USB storage device.

**Step 2:** Connect the USB flash drive to the USB port.

**Step 3:** Enter Menu → Upgrade tab. You will see the upgrade software name displaying in the upgrade list box.


**Step 4:** Select that software and then click Upgrade button. The system will be upgraded automatically.

*Note: Please wait for a while when the system reboots. Any power interruption is not allowed during upgrading.*

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### **6.4 Logoff**

A log off dialogue box will pop up by clicking Log off icon. Then click OK button to confirm to log off. If you want to log in again, click  icon to enter user name and password to re-login.

## 7 Remote Surveillance

### 7.1 IE Remote Surveillance

In order to view the DVR from a network it must be connected to a LAN/WAN or internet. The network setup should be done accordingly. Please refer to 4.6 Network Setup. This DVR supports IE browser, on Windows XP and Vista platform.

#### 7.1.1 On LAN

**Step 1:** Enter into the DVR's Main Menu → Setup → Network interface to input IP address, Subnet Mask, etc. If using DHCP, please enable DHCP in both the DVR and the router.

**Step 2:** Enter Record Setup to set network video parameters like resolution, frame rate etc.

**Step 3:** Open IE on a computer on the same network. Input the IP address of the DVR in IE address bar and press enter.

**Step 4:** IE will download ActiveX component automatically. Enter the username and password in the subsequent window

---

*Notice: If HTTP port is not 80, other number instead, you need to add the port number after IP address. For example, set HTTP port as 82, you shall input IP address like 192.168.0.25:82 in the IE browser bar. User name and password here are the same with that used on the DVR. The default username and password is admin and 123456.*

---

#### 7.1.2 On WAN

There are two ways for the DVR to connect to internet.

##### 1. Connect the DVR to internet through router or virtual server

**Step 1:** Enter into the DVR's Main Menu → Setup → Network interface to input IP address, Subnet Mask, etc. If using DHCP, please enable DHCP in both the DVR and router.

**Step 2:** Forward IP address and port number in Virtual Server setup of the router or virtual server. Configure the firewall to allow accessing the DVR. (If the user has enabled the UPnP function in both the DVR and router, he can skip this step.)

**Step 3:** If users want to utilize dynamic domain name, please apply for a domain name in a DNS server supported by the DVR or router. Then add to the DVR or router. This unit supports www.meibu.com, www.dyndns.com, www.dvrtdns.com, www.no-ip.com and mintdns type.

**Step 4:** Open IE browser, input IP address, or dynamic domain name and enter. If HTTP port is not 80, add the port number after IP address or domain name.

**Step 5:** IE will download ActiveX automatically. Then a window pops up and asks for user name and password. Input name and password correctly, and enter to view.

---

*Note: If you cannot download and install ActiveX control, please refer to FAQ Q8.*

---

**2. Connect the DVR to internet directly**

**Step 1:** Enter into the DVR’s Main Menu→Setup→Network interface to enable PPPoE and then input user name and password received from your ISP. Next, click ‘Apply’. The DVR will connect to the server and would give a confirmation message.

**Step 2:** When accessing the remote interface of DVR, user can input WAN IP to access directly (user can enter into Main menu→Information→Network interface to check IP address). The browser will download Active X control.

**Step 3:** The following setting steps are as the same as Step 4 and Step 5 in Point 1.

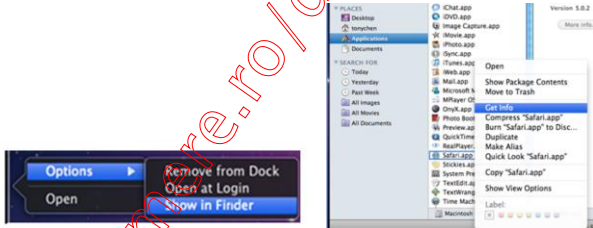
**7.2 Remote Surveillance through Apple PC**

*Note: Because the current plug-in version of client end just only supports 32-bit mode, so the safari browser shall start 32-bit mode. If the browser is the earlier MACOS version, the default setting is 32-bit mode and the setting can be skipped.*

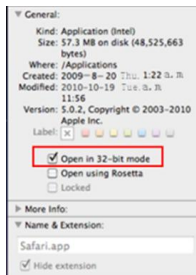
The setting steps are as follows:

**Step 1:** Right click safari icon and select “Show in Finder”.

**Step 2:** Select Applications→Right click “Safari. App”→Select “Get Info”.



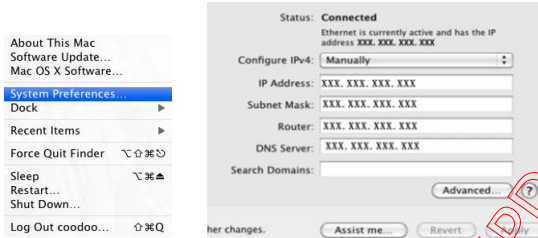
**Step 3:** Select “Open in 32-bit mode”.



**7.2.1 On LAN**

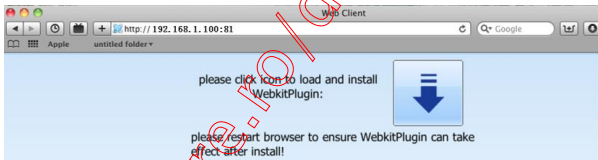
**Step 1:** After starting Apple computer, click Apple icon. The following window will pop up. Please select “System Preferences”→ “Internet & Wireless”→ “Network”.

**Step 2:** Go into Network interface and then click “Ethernet Connected” to check the internet connection of Apple PC.

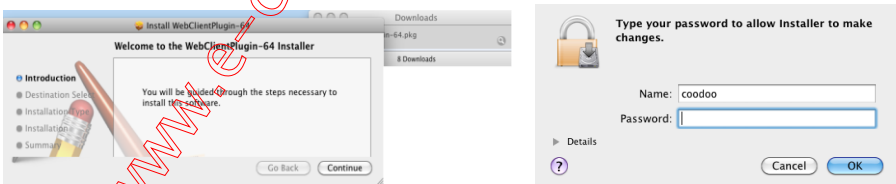


**Step 3:** After acquiring the IP address, Subnet Mask and so on, please enter into the DVR’s Main Menu→Setup→Network interface to manually input IP address, Subnet Mask and Gateway according to the configuration of PC. The network segment should be the same as the PC. If using DHCP, please enable DHCP in the DVR and router.

**Step 4:** After the above information is completed, you can enter LAN IP and http port in the Safari browser. For example: input http://192.168.1.100:81 (here 192.168.1.100 is LAN IP of DVR, 81 is the http port of DVR), and click “ ” button. Then the browser will download Active X control as shown below:



**Step 5:** Click icon and then select the Active X control, the welcome interface will be shown. Click “Continue”→“Install” button , the following window will pop up :



Input the name and password of Apple PC and then click “OK” to install this Active X control.

**Step 6:** After finishing installing the Active X control, please quit from the Safari browser. Right click Safari icon on the desktop and then select “Quit” button to quit the browser. Then restart Safari browser. Input the IP address and http port to enter into the login interface of DVR.



## 7.2.2 On WAN

There are also two ways for DVR to connect to Internet.

### 1. Connect the DVR to internet through router or virtual server

**Step 1:** The network setups are the same as step one to step four of point 1 on WAN of IE remote surveillance.

**Step 2:** Enter WAN IP and http port in the Safari browser to install the Active control. The concrete steps are the same as step 5 and 6 of Chapter 7.2.1.

### 2. Connect the DVR to internet directly.

**Step 1:** The network setups are the same as step one of point 2 on WAN of IE remote surveillance.

**Step 2:** Enter WAN IP and http port in the Safari browser to install the Active control. The concrete steps are the same as step 5 and 6 of Chapter 7.2.1.

## 7.3 The Remote Live Preview

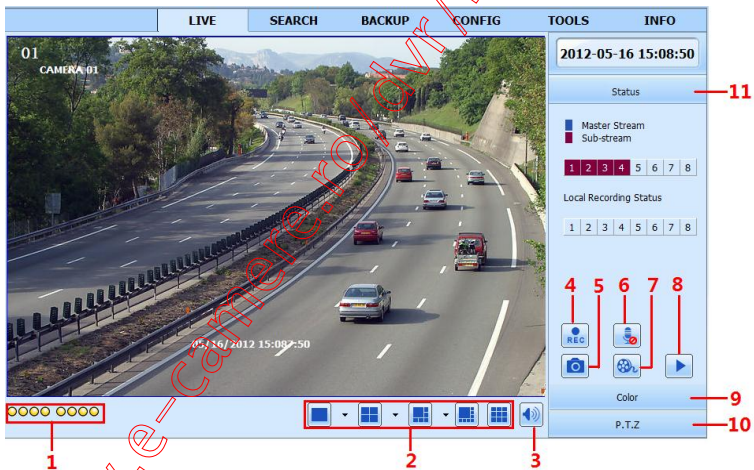




Fig 7-1 Remote Live Preview Interface

Symbol and function definitions:


1	Channel indicator	2	Screen display mode
3	Audio	4	Start recording
5	Snapping picture	6	Bidirectional talk
7	Start IE record	8	Playback
9	Color	10	Adjust color
11	Master/sub stream status		

**Note:** Click  button to start recording. The record file will be saved in user's PC.

**Screen display mode:**

Click the  icon beside the screen display mode to select channels. A maximum of 8 channels can be selected. Then click OK button to confirm the setting.


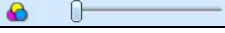
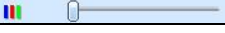
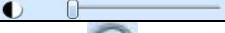


**Snap pictures**

Click “Snap”  icon to automatically capture pictures and save those pictures in the computer.

You can set up the save path for those picture in the Remote Preview interface → Configuration → Local configuration.

**Color adjustment:**

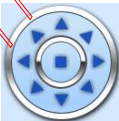










Drag the slide bar to adjust Brightness, Contrast, Hue, and Saturation. Click Default to reset them to original value.

Buttons	Description
	Drag the scroll bar to adjust the brightness of channel
	Drag the scroll bar to adjust the contrast of channel
	Drag the scroll bar to adjust the saturation of channel
	Drag the scroll bar to adjust the hue of channel
	Click this button to recover the default value of brightness, contrast, saturation and hue.
	Save the adjustment

**PTZ control**

Please connect speed dome to the device via RS485 firstly, make sure the protocol of the speed dome is supported by the device and set the relative parameters manually. User can control the dome up, down, right, left or stop rotating on Control Center, adjust rotation speed, Iris and zoom, focus on the dome, and set the presets, etc.

Buttons definition

Buttons	Description
	 to rotate the dome upwards.  to rotate the dome diagonally up-left.  to rotate the dome diagonally up-right  to rotate the dome downwards.  to rotate the dome diagonally down-right  to rotate the dome diagonally down-left  to rotate the dome towards left.  to rotate the dome towards right  to stop rotating the dome.
	Drag the scroll bar to adjust rotating speed of the dome.

	'Iris' button. Click  button near 'Iris' button to increase light of the dome. Click  button near 'Iris' button to decrease light of the dome.
	'Zoom' button. Click  button near 'Zoom' button to zoom in the locale picture of this camera. Click  button near 'Zoom' button to zoom out the locale picture of this camera.
	'Focus' button. Click  button near 'Focus' button to have long focus. Click  button near 'Focus' button to have short focus.
	Go to the Preset
	Select and do auto cruise
	Track
	Auto scan
	Wiper button
	Light button

Click the right mouse on the live interface. This will take you to a pull-down menu.

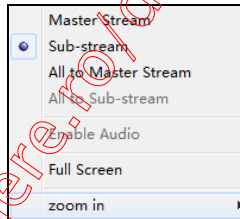


Fig 7-2 Right Key Sub Menu

**Stream:** This DVR supports master stream and sub stream. Master stream has higher frame rate, max 25FPS ( PAL ) /30 FPS ( NTSC ) for every channel, but it needs higher network bandwidth simultaneously. Sub stream has low frame rate, max 6FPS ( PAL ) /7FPS ( NTSC ) for every channel, it requires low network bandwidth. Therefore, you can select the stream according to your bandwidth.

**All to master/sub stream:** Set all channel to master stream or sub stream.


**Enable audio:** Enable or disable audio

**Full screen:** In full screen status, the live preview picture will display with full screen and the tool bar will be hid. Double click left mouse or click right mouse to return.

**Zoom in:** Single channel large screen electronic amplification. Click the channel which needs to be zoomed. Right click to select zoom in button to zoom in the image. Double click or right click to exit.

## 7.4 Remote Playback & Backup

### 7.4.1 Remote Playback

Click  button to go into record playback interface. Refer to Fig 7-3:  
Select the record date and channels and double-click the file name in the record file list box.  
Then you can play that file and preview the picture.

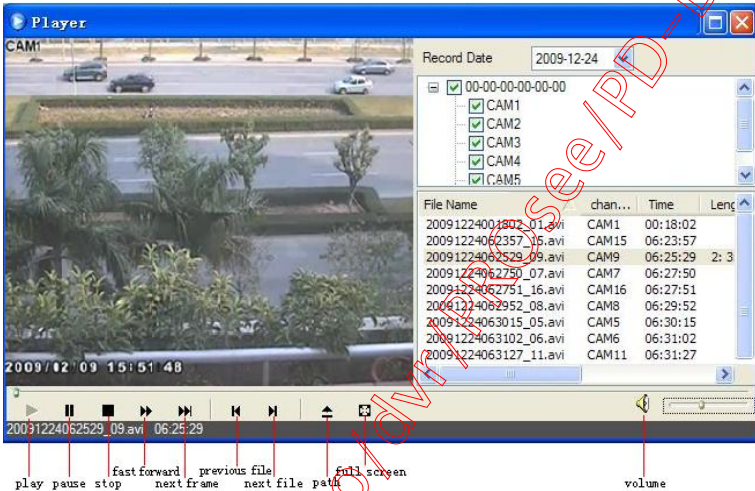


Fig 7-3 Play Record File Interface

This DVR supports remote time search, event search and file management.

#### By Time Search:

**Step 1:** Enter into Search → Time Search. Refer to Fig 7-4:

**Step 2:** The highlight date in the area ② indicates recorded data. Select the date in area ② and record channels in area ③.

**Step 3:** Click “Search” button. The record data will be displayed in the data information list box.

**Step 4:** Set the data playing time and display mode in the area ① as required.

**Step 5:** Click “Play” button to playback.

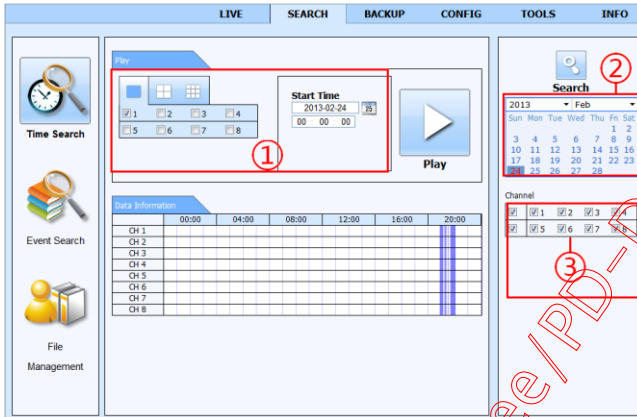


Fig 7-4 Time Search Interface

**Step 6:** Click the relevant buttons in the interface for operation, like FF, pause, change channel mode, etc. Refer to Fig 7-5:

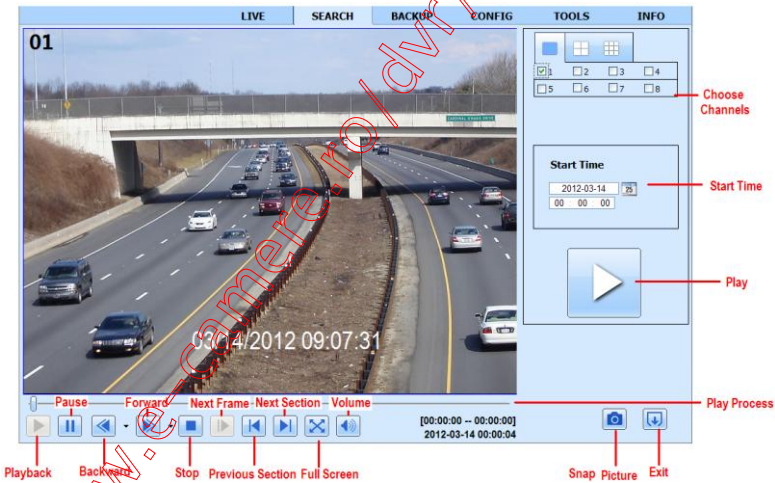


Fig 7-5 Time Search Playback

**By Event Search:**

**Step 1:** Enter into Search→Event Search interface. Refer to Fig 7-6:

**Step 2:** Click the highlight date and select record channels.

**Step 3:** Checkmark the event type: motion.

**Step 4:** Click “Search” button.

**Step 5:** Double-click certain item to play.

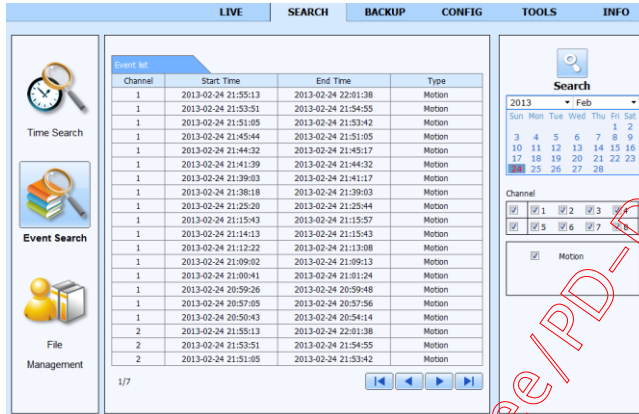


Fig 7-6 Event Search Interface

**File Management**

**Step 1:** Enter into Search→File Management interface. Refer to Fig 7-7:

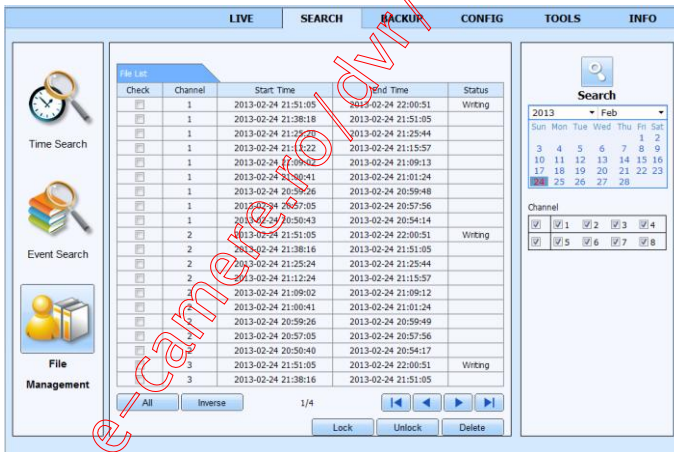


Fig 7-7 File Management Interface

**Step 2:** Select highlighted date and channels.

**Step 3:** Click “Search” button to search the recorded files.

**Lock:** Select certain file item in the file list box and then click “Lock” button to lock this file that can not be deleted or overlaid.

**Unlock:** Select a locked file and then click “Unlock” button to unlock this file.

**Delete:** Select an unlock file and then click “Delete” button to delete this file from file list.

## 7.4.2 Remote Backup

Click Backup button to enter into backup interface. Please refer to Fig 7-8:

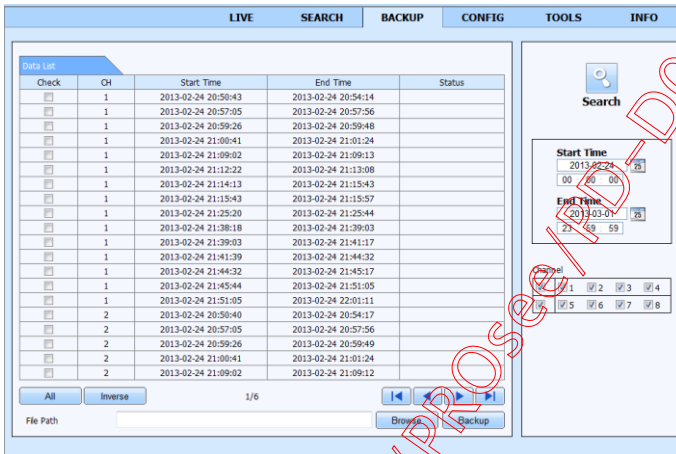


Fig 7-8 Remote Backup Interface

**Step 1:** Select channels, set the start and end time and then click “search” button to display the file information in the file list box.

**Step 2:** Select backup files and click “Browse” button to set the save path. Then click “Backup” button to start backup. The backup files will be saved on user’s PC.

## 7.5 Remote System Configuration

You can do remote setup of the device which includes functions like basic configuration, live configuration, record configuration, schedule configuration, alarm configuration, network configuration, and user configuration. You should select an option from the menu list on the left and then setup the relative parameters. Only one user can do configuration setup at a given point of time. Click Config tab to enter into the below interface

The sub menu list and the options in every menu are similar to that of the DVR. Please refer to Chapter 4 Main Menu Setup Guide for more details.

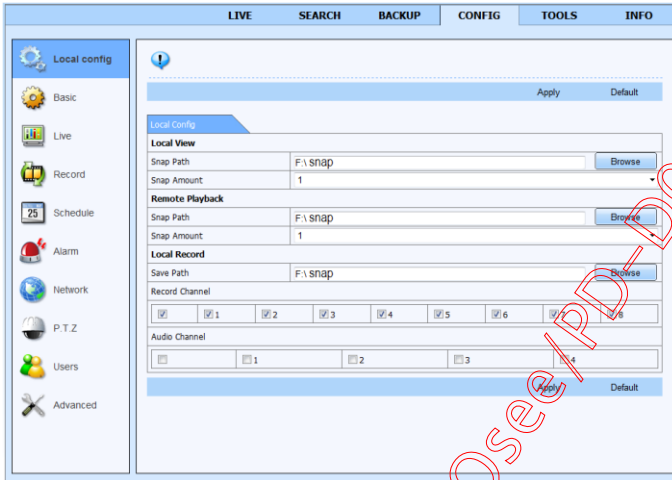


Fig 7-9 Remote Menu Setup

## 7.6 Tools

Click on the tool's tab to access the Disk Management tool. The user can view the status of the hard drive(s), can view/change the read/write properties and can also format the hard drive(s).

## 7.7 Remote Management

The Info interface provides a web based interface to access the general information pertaining to the DVR's settings. The interface includes five submenus: System, Event, Log, Network and Online users.

---

**Note:** There may be subtle differences with respect to functions of remote surveillance between through IE and through Apple PC. Here we only take IE remote access for example.

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## Appendix A FAQ

### Q1. Why the DVR doesn't turn on after connecting to the power?

- a. The power adapter could have gone bad. Please change a new power adapter.
- b. The power from the adapter may be not enough for operating the DVR. Please use the power adaptor supplied along with the DVR.
- c. It could be a hardware problem.

### Q2. There is not menu displayed and only has live image display.

- a. Check whether the monitor is connected to the main video out and not the spot out. The monitor might be connected to VGA port whereas the DVR may be set for output through BNC or vice versa. Long press Fn/ESC key to toggle the output modes.

### Q3. The DVR LED turns on, however there is no output.

- a. The power from the adapter may be not enough for operating the DVR. Please use the power adaptor supplied along with the DVR.
- b. It could be a wiring issue. Please check the connection for the same.
- c. Check the monitor settings.

### Q4. Why are no images displayed on few or all channels of the DVR?

- a. It could be a wiring issue. Please check the cable and the ports of the cameras and DVR.
- b. The problem can also be related to cameras. Please check the same.
- c. Please make sure that the channels are not programmed as hidden channels and check the status from admin login.

### Q5. The HDD cannot be found.

- a. The power from the adapter may be not enough for operating the DVR. Please use the power adaptor supplied along with the DVR.
- b. It could be wiring issue. Please check the power and data cables of the HDD.
- c. The HDD could have gone bad. Change a new one.

### Q6. The DVR cannot record.

- a. Make sure the HDD was formatted prior to use.
- b. Maybe the user hasn't enabled the record function or has done incorrect setup. Please refer to Chapter 5.
- c. Maybe HDD is full and thus the DVR is not able to record. Check HDD information from Disk Management and if required, please enable the recycle function.
- d. The HDD could have gone bad. Please change another one.

### Q7. Mouse doesn't work.

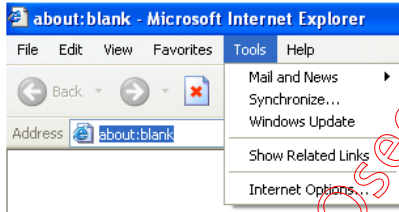
- a. The mouse should be connected to the USB port at the rear side.

- b. After connecting the mouse, allow the DVR to detect the mouse for seconds. If not detected, try restarting the DVR.
- c. The mouse may be incompatible. Please change a mouse.

### Q8. ActiveX control cannot be downloaded.

- a. IE browser blocks ActiveX. Please do setup as per the steps mentioned below.

**Step1:** Open IE browser. Click Tools→Internet Options.



**Step 2:** Select Security→Custom Level. Refer to Fig 8-1

**Step 3:** Enable all the sub options under “ActiveX controls and plug-ins”. Refer to Fig 8-2  
Then click Ok to finish setup.

- b. Other plug-ins or anti-virus blocks ActiveX. Please uninstall or do the required settings.

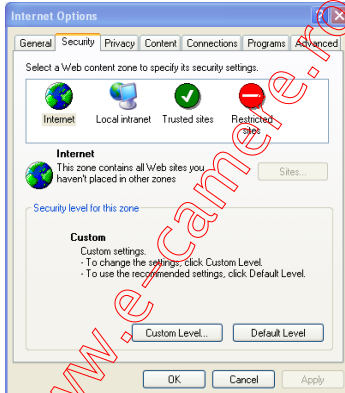


Fig 8-1

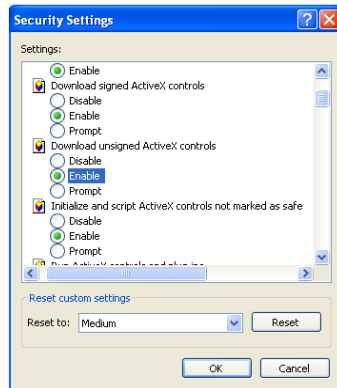


Fig 8-2

### Q9: DVR displays “please wait...”all the time.

- a. HDD power cable and data cable may not be well connected. Please check the connections for HDD.
- b. It is also possible that the DVR was forced to stop because HDD has a bad sector and it may have caused the system to halt. Check with a good known HDD or try formatting the existing HDD.

**Q10: How to input password and digital numbers?**

Click the password or the input box a small keyboard will pop up. Please select characters to be input (the initial password is 123456), or you can use the digital keys on the front panel, or the digital keys on the remote controller.

**Q11: A hard disk is being identified as a new device however it was being used with another DVR of same model. Should it be formatted prior use?**

It is possible to migrate an HDD from one DVR to another provided that the DVRs are of the same model and that the HDD being migrated would be used as the sole disk in the new DVR. However in cases where the new DVR already contains a HDD, the migrated disk being installed would have to be formatted. In general migrating disks from one DVR to another is not recommended.

**Q12: What is the minimum configuration required for remote monitoring?**

PC Module	Parameters
CPU	Intel Celeron 2.4G
Motherboard	Intel 845
HDD	80G
RAM	512M
VGA	NVIDIA GeForce MX440/FX5200 ATIRADEON 7500/X300
OS	Windows 2000 (SP4 above) /Windows XP(SP2 above) /VISTA
DirectX	9.0

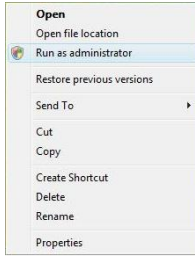
**Q13: How to handle the situation that the codec Control is blocked when downloading in the VISTA or Win7 system?**

This problem can be fixed in two ways:

- Enter Control Panel → User Account and Family Safety → User Account Control (refer to the following figure) and click Turn User Account on or off. Cancel Use User Account Control (UAC) to help protect your computer.





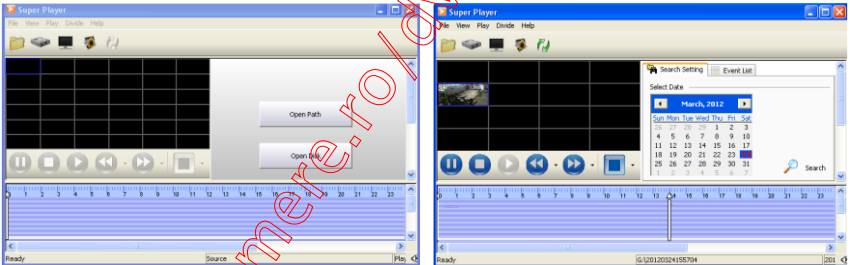
- Right click IE browser (refer to the following figure) and select Run as administrator to run browser.



**Q14. How to play the backup file?**

Insert your USB device where the backup files are saved in the USB port of PC. If your files are saved in DVR format, you must have already downloaded the backup player box before doing backup. Then double click to open your USB disk to find your backup files and backup

player. Double click  icon to install backup player. After you install it, open this player and click “Open Path” button to open your backup file. Next, click  play button to play the backup file. Double click the image and then right click to enable audio. If you save your backup files in AVI format, you can directly open your file by using the media player which supports this format.



<http://www.e-camere.com/dvr-software/DVR-Backup-Player-D08SH>

## Appendix B Calculate Recording Capacity

Users can calculate the size of hard disk according to the saving time and DVR recording settings. The DVR uses fixed video bit rate. The below are the details at different settings.

Resolution	Frame Rate Totally(FPS)	Video Quality	Bit Rate (kbps)	Used Space (MB/h)
D1	30(NTSC)/ 25(PAL)	Highest	2M	900
		Higher	1.5M	675
		Medium	1M	450
		Low	768K	338
		Lower	512K	225
		Lowest	256K	112

The calculation format is: **Total Recording capacity = Used space per hour (MB/h) (coverage rate of hard disk) × recording time (hour) × channel numbers**

For instance, one customer uses NTSC cameras, set resolution to WD1, video quality to Lowest, frame rate to 30 fps for enabling total 8 channels. He wants the unit to record continuously in a month. Below is the calculation:

$$\text{Total Recording capacity} = 112 \text{ (mb/h)} \times 24 \text{ (hours/day)} \times 30 \text{ (days)} \times 8 \text{ (channels)} = 645120 \text{ (MB)} = 630 \text{ (GB)}$$

Therefore, customers just install one SATA HDD with 1TB, it can almost record for one month.

## Appendix C Compatible Devices

### 1. Compatible USB drive after test.

Brand	Capacity
SSK	512MB, 1G, 2GB
Netac	4GB
Kingston	2GB
Aigo	2GB
Smatter vider	1GB
SanDisk	4GB

### 2. Compatible HDD list

Brand	Capacity
Seagate Barracuda	80G/160G/250G/320G /1.5T/2TB
Seagate SV35.3	1T
Seagate Pipeline HD.2	500G
Maxtor Diamondmax	160G
HITACHI Deskstar	80G/160G
WD WD1600JS	160G
Samsung HD161HJ	160G

## Appendix D 8-CH Specifications

Compression format	H.264 Main Profile
Video output	BNC×1, VGA×1, HDMI×1
Video Input	Composite : 1.0V p-p/75Ω BNC×8
HDMI/VGA Resolution	1920*1080/1280*1024 / 800*600
Record Resolution	704x576/352x288(PAL); 704x480/352x24(NTSC)
Display Frame Rate	200FPS (PAL), 240FPS (NTSC)
Record Frame Rate	200FPS (PAL), 240FPS (NTSC)
Audio Input	RCA X2
Audio output	RCA X1
Record Mode	Manual / Timer / Motion detection
Simplex/Duplex/Triplex	Pentaplex
Network Interface	RJ45 (LAN, INTERNET)
PTZ control	Yes
Communication interface	RS485, USB2.0 x 2 (one for backup, another for USB mouse)
Disk info	SATA x 1
Remote controller	YES
Power Supply	DC12V
Temperature	0°C-50°C
Humidity	10%-90%



<http://www.e-camere.ro/dvr/PROsee/PD-D08SH>