

# **DVR User Manual**

For H.264 4/8-channel digital video recorder  
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## **CAUTION**

- Please read this user manual carefully to ensure that you can use the device correctly and safely
- We do not warrant all the content is correct. 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 not in use 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
- Do not block any ventilation openings. And ensure well ventilation around the machine
- Do not power off the DVR at normal recording condition! The correct operation to shut off DVR is to stop recording firstly, and then 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
- Refer all servicing to qualified service personnel. No any parts repaired by yourself without technical aid or approval.
- This manual is suitable for 4/8-channel digital video recorders. All examples and pictures used in the manual are from 8-channel DVR.

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# 1 Introduction

## 1.1 DVR Introduction

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

- Support HD VGA output
- Support channel security by hiding live display
- Display the local record state and basic information
- Support USB to make full control

### RECORD MEDIA

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

### BACKUP

- Support USB 2.0 devices to backup

- Support saving recorded files with AVI standard format to a remote computer through internet

### **RECORD & PLAYBACK**

- Record modes: Manual, Schedule, Motion detection and Sensor alarm recording
- Support recycle after HDD full
- Resolution, frame rate and picture quality are adjustable
- 128MB for every video file packaging
- 4/8 audio channels available
- Two record search mode: time search and event search
- Support deleting and locking the recorded files one by one
- Support remote playback in Network Client through LAN or internet

### **ALARM**

- 1 channel alarm output and 4/8 channel alarm input available
- Support schedule for motion detection and sensor alarm
- Support pre-recording and post recording
- Support linked channels recording once motion or alarm triggered on certain channel
- Support linked PTZ preset , auto cruise and track of the corresponding channel

### **PTZ CONTROL**

- Support various PTZ protocols
- Support 128 PTZ presets and 8 auto cruise tracks
- Support remote PTZ control through internet

### **SECURITY**

- Customize user right: log search, system setup, two way audio, file management, disk management, remote login, live view, manual record, playback, PTZ control and remote live view




- Support 1 administrator and 15 users.
- Support event log recording and checking, events unlimited

#### **NETWORK**

- Support TCP/IP, DHCP, PPPoE, DDNS protocol
- Support IE browser to do remote view
- Support setup client connection amount
- Support dual stream. Network stream is adjustable independently to fit the network bandwidth and environment.
- Support picture snap and color adjustment in remote live
- Support remote time and event search, and channel playback with picture snap
- Support remote PTZ control with preset and auto cruise
- Support remote full menu setup, changing all the DVR parameters remotely
- Support mobile surveillance by smart phones , symbian, WinCE, Iphone , Gphone, Blackberry 3G network available
- Support CMS to manage multi devices on internet


## 2 Hardware Installation

 **Notice:** Check the unit and the accessories after getting the DVR.

*Please disconnect the power before being connected to other devices. Don't hot plug in/out*

### 2.1 Install Hard Drive

#### 2.1.1 Install Hard Drive

 **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”.

Step1: Unscrew and Open the top cover

Step2: Connect the power and data cables. Place the HDD onto the bottom case as below.



**Fig 2.1 Connect HDD**

Step3: Screw the HDD as below.








**Note:** For the convenience to install, please connect the power and data cables firstly, and then screw to fix.






**Fig 2.2 Screw HDD**

## 2.2 Front Panel Instructions

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

Item	Type	Icon	Name	Description
1	Compound button		REC	Record manually
			MENU/+	1. Enter menu in live 2. Increase the value in setup
			BACKUP/-	1. Decrease the value in setup 2. Enter backup mode in live
			SEARCH	Enter search mode
			PLAY /PAUSE	1. Enter play interface 2. Suspend playback
			FF	Fast forward
			REW	Rewind

Item	Type	Icon	Name	Description
			STOP/ESC	1. Quit play mode 2. Exit the current interface or status
2	Input button	Direction button		Change direction to select items
		Multi-screen		Change screen display mode like 1/4/9 channel
		Enter button		Confirm selection
3	USB		USB port	To connect external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse
4	POWER		POWER	Shot switch off

## 2.3 Rear Panel Instructions

### 2.3.1 Rear Panel Interface

The rear Panel interface for 4-ch is shown as Fig 2.3:

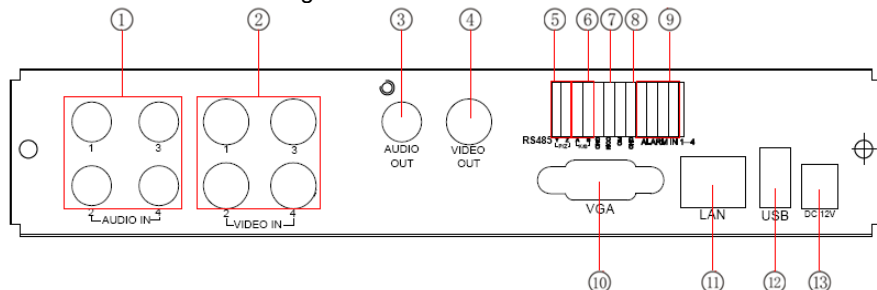


Fig 2.3 Rear Panel for 4-ch

Item	Name	Description
1	Audio in	4 CH Audio input
2	Video in	Video input channels from 1-4
3	Audio out	Audio output, connect to the sound box
4	Video out	Connect to monitor
5	P/Z	Connect to speed dome
6	K/B	Connect to keyboard
7	ALARM OUT	1-ch relay output. Connect to external alarm
8	+ 5V and GND	+5 V and Grounding
9	ALARM IN	Connect to external sensor1-4
10	VGA port	VGA output, connect to monitor
11	LAN	Network port
12	USB port	Connect USB mouse or connect external USB devices
13	DC12V	POWER INPUT

Tab 2.1 Definitions of Front Panel Buttons

The rear Panel interface for 8-ch is shown as Fig 2.4:

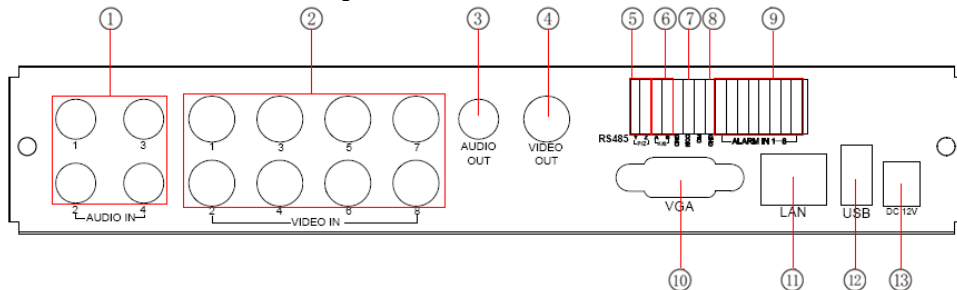


Fig 2.4 Rear Panel for 8-ch

Item	Name	Description
1	Audio in	4 CH Audio input
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	P/Z	Connect to speed dome
6	K/B	Connect to keyboard
7	ALARM OUT	1-ch relay output. Connect to external alarm
8	+ 5V and GND	+5 V and Grounding
9	ALARM IN	Connect to external sensor1-8
10	VGA port	VGA output, connect to monitor
11	LAN	Network port
12	USB port	Connect USB mouse or connect external USB devices
13	DC12V	POWER INPUT

Tab 2.2 Definitions of Front Panel Buttons


## 2.4 Remote Controller

It uses two AAA size batteries and works after loading batteries as following:

Step1: Open the battery cover of the Remote Controller

Step2: Place batteries. Please take care the poles (+ and -)

Step3: Replace the battery cover

 **Notice:** Frequently defect checking as following

1. Check batteries poles
2. Check the remaining charge in the batteries
3. Check IR controller sensor is mask

*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 Fig2.5 Remote Controller.

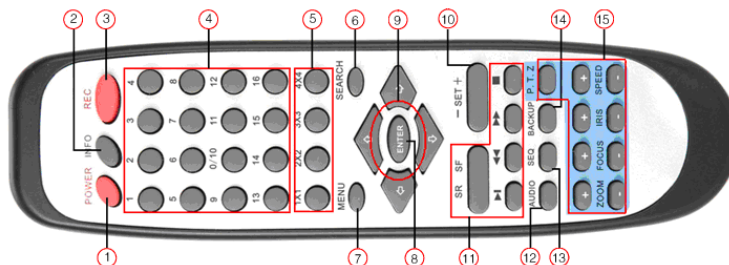


Fig 2.5 Remote Controller

Item	Name	Function
1	Power Button	Soft switch off to stop firmware running. Do it before power off.
2	INFO Button	Get information about the DVR like firmware version, HDD information
3	REC Button	To record manually
4	Digital Button	Input digital or choose camera
5	Multi Screen Button	To choose multi screen display mode
6	SEARCH Button	To enter search mode
7	MENU Button	To enter menu
8	ENTER Button	To confirm the choice or setup
9	Direction Button	Move cursor in setup or pan/title PTZ
10	+/- Button	To increase or decrease the value in setup
11	Playback Control Button	To control playback, Fast forward/rewind/stop/single frame play
12	AUDIO Button	To enable audio output in live mode
13	Auto Dwell Button	To enter auto dwell mode
14	BACKUP Button	To enter backup mode
15	PTZ Control Button	To control PTZ camera: Move camera/ZOOM/FOCUS/IRIS/SPEED control

**Operation processes with remote controller to control multi-DVR**

The device ID of the DVR is 0. When use of remote controller to control single DVR, it's not necessarily to reset the device ID, user can do operation directly; when control multiple DVR with remote controller, please refer to below steps:

Step1: Activate remote controller to control DVR: enable DVR: turn the IR sensor of the remote controller to the IR receiver that on the front panel, press the number key 8 twice, then input device ID (Range from: 0-65535; the default device ID is 0.) with other digital number: 0-9, after that, press ENTER button to confirm.

Step2: User can check the device ID by enter into System configuration→Basic configuration→device ID. User also can set other DVRs with the same device ID. For more convenient to operate, we don't recommend user to set the device ID too long.

Step3: Cancel controller to control DVR: turn the IR sensor of the remote controller to the IR receiver that on the front panel, press the number key 8 twice, then input the device ID that needs to be cancelled from controlling, press ENTER button to confirm. After that, the DVR will not be controlled by remote controller.

## **2.5 Control with Mouse**

### **2.5.1 Connect Mouse**

It supports USB mouse through the ports on the rear panel, please refer to Fig 2.5 Remote Controller.



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

1. Make sure the mouse plugs in the USB mouse port not the USB port
2. Change a mouse to try

### **2.5.2 Use Mouse**

The structure of the main menu is shown in Fig 2.5 Remote Controller.

**In live:**

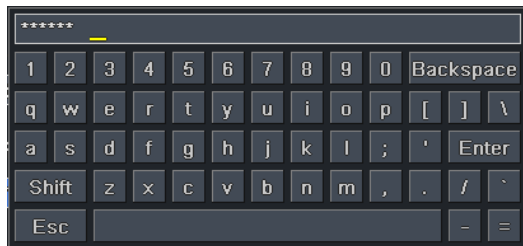
Double-click left button on one camera to be full screen display. Double-click again to return to the previous screen display. Click right button to show the control bar at the bottom of the screen as Fig 2.5 Remote Controller. Here are all control and setup. Click right mouse again to hide the control bar.

**In setup:**

Click left button to enter. Click right button to cancel setup, or return to the previous.



If want to input the value, move cursor to the blank and click. An input window will appear as Fig2.6. It supports digitals, letters and symbols input.



**Fig 2.6 Digital Numbers and Letters Input Window**

Users can change some value by the wheel, such as time. Move cursor onto the value, and roll the wheel when the value blinks.

It supports mouse drag. I.e. Set motion detection area: click customized, hold left button and drag to set motion detection area. Set schedule: hold left button and drag to set schedule time

**In playback:**

Click left button to choose the options. Click right button to return to live mode.

**In backup:**

Click left button to choose the options. Click right button to return to previous picture.

**In PTZ control:**

Click left button to choose the buttons to control the PTZ. Click right button to return to live.

 **Notice:** *Mouse is the default tool in all the operation below unless Exceptional indication.*

## 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

Step1: connect with the source power; switch on the power button near the power port in the rear panel

Step2: the device will be loaded, and the power indicator will display blue

Step3: before start, a WIZZARD window will be 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.

After the device power on, if there is no menu or only has live image display, user can long press ESC button to switch.

 **Notice:** this serial device can only display menu on VGA monitor or BNC monitor at one time, if there is live image display without menu display, please check up whether other device has menu display firstly, or long press ESC key to wait for login dialog box to appear. Long press 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:**

Step1: press Power button, the Shut down window will appear, click OK, the unit will power off after a while.

Step2: disconnect the power

##### **By keyboard and mouse:**

Step1: enter into  Menu, then select "System Shut Down" icon, the Shut down window will appear

Step2: click OK, the unit will power off after a while.

Step3: disconnect the power

## 3.2 Login

User can login and logout the DVR system. User cannot do any other operations except changing the multi-screen display once logout.



Fig 3-1 Login

- ☞ **Notice:** the default user name and password is "admin" and 123456"
- ☞ The concrete operation steps for change password, add or delete user please refer to 4.7 User management configuration for more details.

## 3.3 Live preview

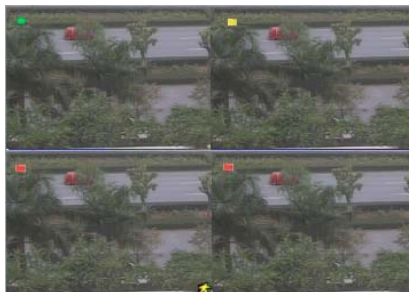



Fig 3-2 live preview interface

The explanation of symbol in the live preview interface:

symbol	meaning	symbol	meaning
Green	Manual record or time record	Red	Alarm record
Yellow	Motion detection record	Figure icon	Move event

### 3.3.1 Live playback

Click Play  button to playback the record. Refer to Figure3-3. User can do concrete operation by click the buttons on screen.

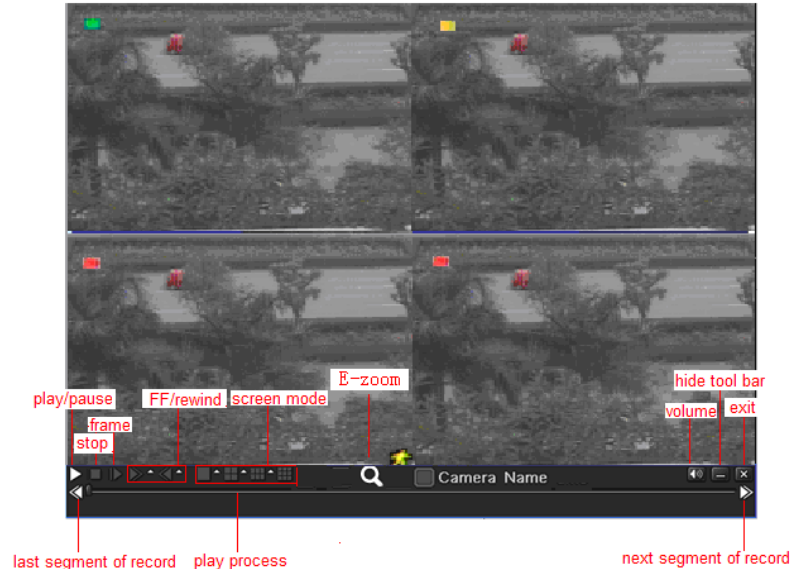


Fig 3-3 live playback

## 4 Main menu setup guide

Click right mouse or press ESC button on the front panel, the control bar will display on the bottom of the screen, refer to Fig 4-1:

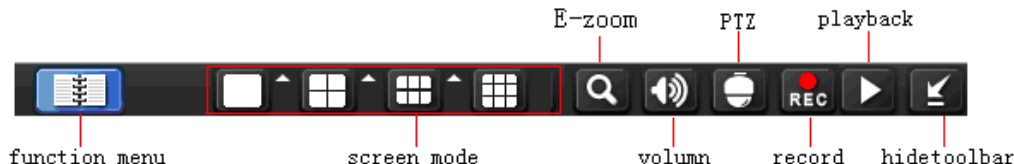





Fig 4-1 menu toolbar

Click the  icon beside the screen display mode, a channel select dialog will appear as below:



Take 8-channel DVR for example: user can tick off channels form 1-ch to 8-ch at random to display the live pictures, 6 channels can be selected at most. Then click  button to confirm the setting.

Click Menu  button, the interface will pop-up as Fig 4-2; press MENU button on the front panel or operate with remote controller also can display the main menu.

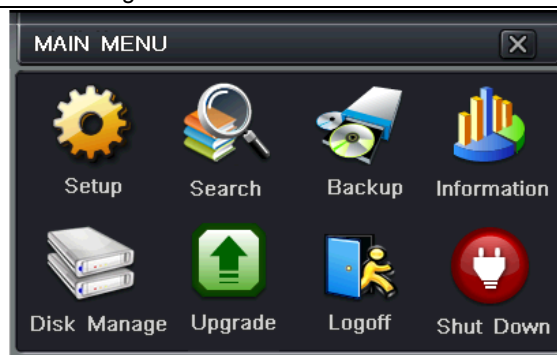
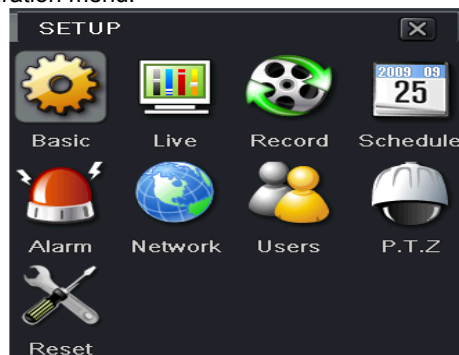


Fig 4-2 main menu

Click Setup icon will pop-up the configuration menu:



## 4.1 Basic configuration

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

### 4.1.1 System

Step1: enter into system configuration→basic configuration→system; refer to Fig 4-3:

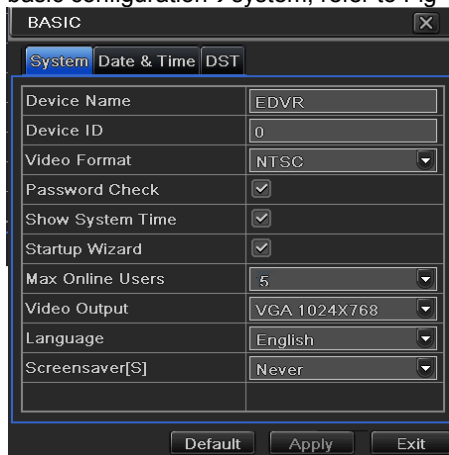


Fig 4-3 basic configuration-basic

Step2: in this interface user can setup the device name, device ID, video format, max online users, Video Output and language, Screensaver 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.

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

**Password check:** enable this option, user needs to input user name and password can do corresponding operations with the relevant right in system configuration.

**Show system time:** display time in live.

**Startup wizard:** tick off this item, there will display an opening wizard with time zone and time setup information

**Max online uses:** set the max user amount of network connection

**Video output:** the resolution of live display interface, range from: VGA800\*600、VGA1024\*768、VGA1280\*1024and CVBS

**Note :** When switch between VGA and CVBS will change the menu output mode, please connect to relevant monitor.

**Language:** setup the menu language.

**Note:** after changed the language and video output, the device needs to login again.

**Screensaver:** user can setup the screensaver 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.

#### 4.1.2 Time & date

Step1: enter into system configuration→basic configuration→time & date; refer to Fig 4-4:

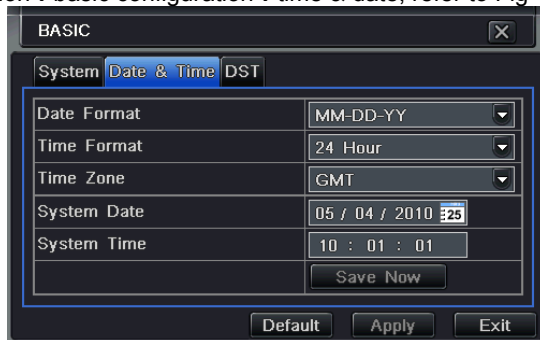


Fig 4-4 basic configuration-time & date

Step2: set the date format, time format, time zone in this interface; user also can adjust system date manually

Step3: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.



### 4.1.3 DST

Step1: enter into system configuration→basic configuration→DST; refer to Fig 4-5:

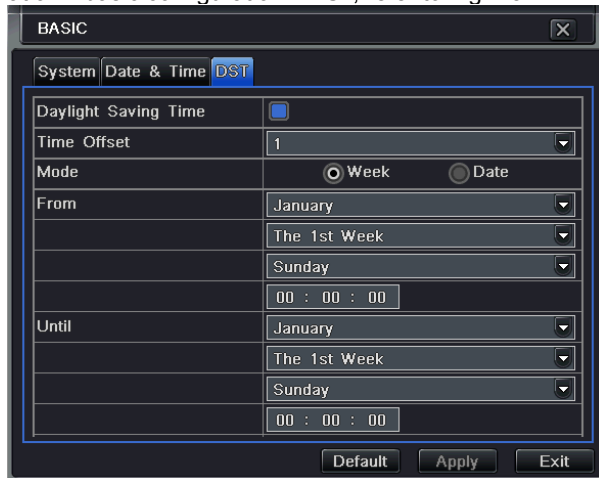


Fig 4-5 basic configuration-DST

Step2: in this interface, enable daylight saving time, time offset, mode, start & end month/week/date, etc.

Step3: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

## 4.2 Live configuration

Live configuration includes three submenus: live, spot and mask.

### 4.2.1 Live

In this interface, user can setup camera name, adjust colors: brightness, hue, saturation and contrast.

Step1: enter into system configuration→live configuration→live; refer to Fig 4-6:

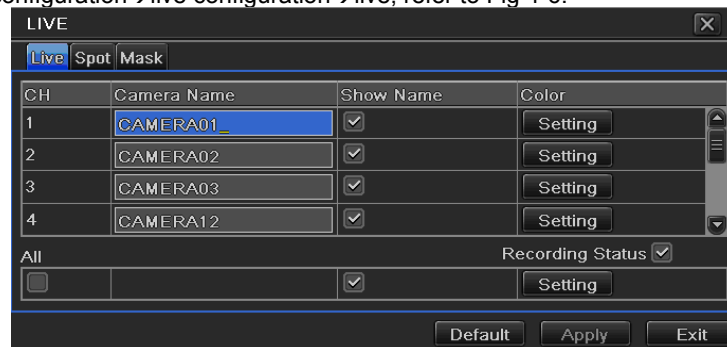


Fig 4-6 live configuration→live

Step2: tick off camera name; click “setting” button, a window will pop-up as Fig 4-7:



Fig 4-7 live-color adjustment

Step3: in this interface, user can adjust brightness, hue, saturation and contrast in live; click “default” button to resort default setting, click “OK” button to save the setting.

Step4: user can setup all channels with same parameters, tick off “all”, then do relevant setup.

**Recording Status:** After ticking off this button, a little square icon will show on live preview interface when recording.

Step5: click “Default” to resort default setting; click “Apply” to save the setting; click “Exit” to exit current interface.

**Note:** Click Camera Name, a soft keyboard will pop up. User can self-define the camera name. Click Shift button, user can input Capital letters. Click Shift button again, user can input Chinese characters.

## 4.2.2 Spot

Step1: enter into system configuration→live configuration→Spot; refer to Fig 4-8:

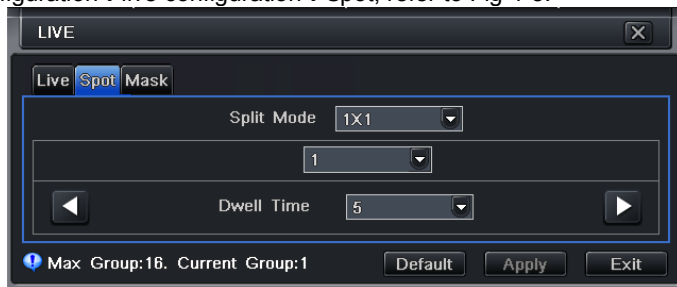




Fig 4-8 live configuration-Spot

Step2: select split mode: 1×1and channel

Step3: dwell time: the time interval for a certain dwell picture display switching to next dwell picture display

Step4: selected the split mode, then setup current picture group. Click  button to setup the previous channel groups of dwell picture, click  button to set the latter channel groups of dwell picture.

Step5: click “Default” to resort default setting; click “Apply” to save the setting; click “Exit” to exit current interface

### 4.2.3 Mask

User can setup private mask area on the live image picture, max three areas.

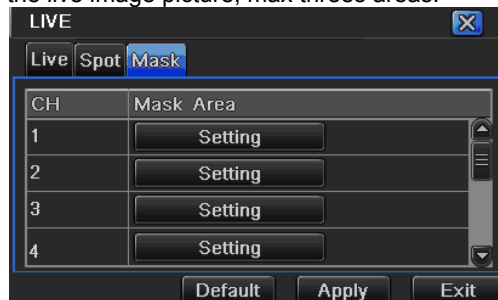


Fig 4-9 live configuration-mask

**Setup mask area:** click Setting button, enter into live image to press left mouse and drag mouse to set mask area, refer to below picture. Click Apply button to save the setting.

**Delete mask area:** select a certain mask area, click left mouse to delete that mask area, click Apply button to save the setting.



Setup mask area



Live image mask area

## 4.3 Record configuration

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

### 4.3.1 Enable

Step1: enter into system configuration→record configuration→enable; refer to Fig 4-10:



Fig 4-10 record configuration-enable

Step2: tick off record and audio.

Step3: user can setup all channels with same parameters, tick off “all”, then to do relevant setup.

Step4: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

#### Definitions and descriptions of Record:

Parameter	Meaning
Record	Record switch of every channels
Audio	Enable live record audio

### 4.3.2 Record Bit rate

Step1: enter into system configuration→record configuration→record bit rate; refer to Fig 4-11:



Fig 4-11 record configuration-record bit rate

Step2: setup rate, resolution, quality

Step3: user can setup all channels with same parameters, tick off "All", then to do relevant setup.

Step4: Click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

**Note:** if the rate value set is over high the maximum resources of the device, the value will be adjusted automatically.

**Definitions and descriptions of Record Bit rate:**

Parameter	Meaning
Rate	Range from: 1-30 (NTSC) 1-25(PAL)
Resolution	Support CIF and D1
Quality	The quality of recorded images. The higher the value is, the clearer the recorded image is. Six options: lowest, lower, low, medium, higher and highest.

### 4.3.3 Time

Step1: enter into system configuration→record configuration→ time; refer to Fig 4-12:



Fig 4-12 record configuration-time

**Pre-alarm record time:** the record time before event happen i.e. record time before motion detection or sensor alarm is triggered.

**Post-alarm record:** set the post recording time after the alarm is finished, five options: 10s, 15s, 20s, 30s and 60s.

**Expire time:** the hold time of saved records. If the set date is overdue, the record files will be deleted automatically.

Step2: user can setup all channels with same parameters, tick off “all”, then to do relevant setup.

Step3: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.



### 4.3.4 Stamp

**Stamp** : User can overlap the channel name and time stamp on video.

Step1: enter into system configuration→ record configuration→ stamp; refer to Fig 4-13:

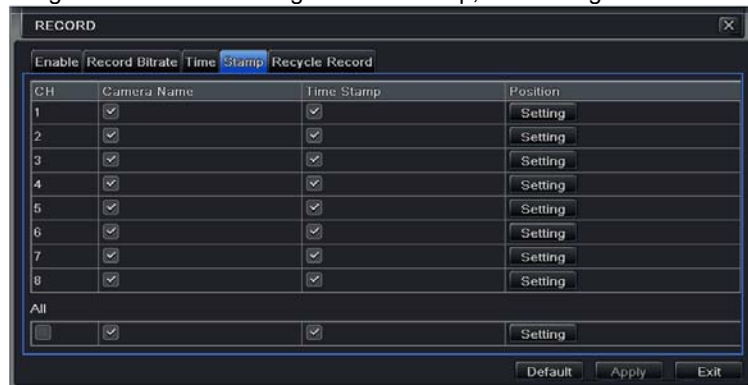
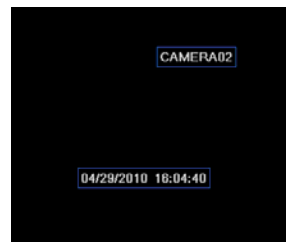


Fig 4-13 record configuration-stamp

Step2: tick off camera name, time stamp; click Set button, user can use cursor to drag the camera name and time stamp in random positions, refer to below Figures:



Before drag



after drag

Step3: user can setup all channels with same parameters, tick off “all”, then to do relevant setup.

Step4: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

### **4.3.5 Recycle record**

Step1: enter into system configuration→record configuration→recycle record;

Step2: tick off recycle record, the recycle record function will enable, it will cover the earlier recorded files and keep recoding when HDD is full; if disenable this function, it will stop recording when HDD is full.

Step3: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

## **4.4 Schedule configuration**

Schedule configuration includes three sub menus: schedule, motion and sensor.

### **4.4.1 Schedule**

The column means the seven days of a week from Monday to Sunday, the row means 24 hours of a day. Click the grid to do relevant setup. Blue means checked area, gray means unchecked area.

Step1: enter into system configuration→schedule configuration→schedule; refer to Fig 4-14:

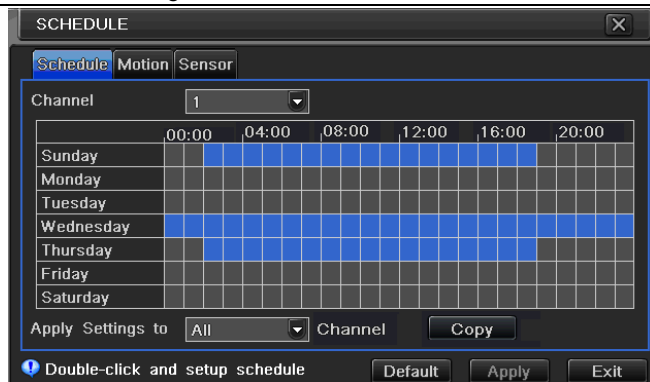


Fig 4-14 schedule configuration-schedule

Step2: select channel, double-click and a dialog box will pop-up as Fig 4-15, user can edit week schedule:

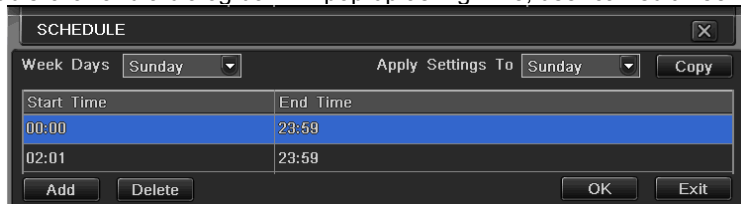


Fig 4-15 schedule-week schedule

① Click “add” button to add a certain day schedule; click “delete” button to delete the selected schedule;

Copy: user can copy the specify schedule to other dates.

Click “OK” button to save the setting, click “Exit” button to exit current interface.

② User can apply the schedule setting of certain channel to other or all channels, just only select channel and click “Copy” button.

Step3: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

#### 4.4.2 Motion

Step1: enter into system configuration→schedule configuration→motion; refer to Fig 4-16:

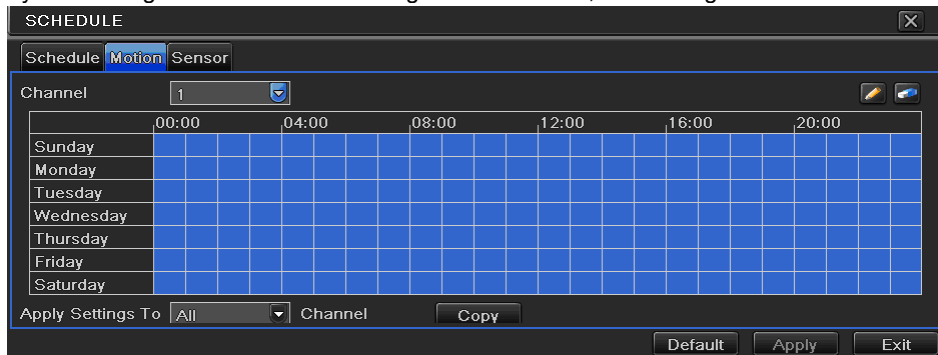


Fig 4-16 schedule configuration-motion

Step2: the setup steps of motion are familiar with schedule; user can refer to 4.4.1 Schedule for details.

**Note:** the default schedule of motion detection is full-selected, that is, the color of schedule setting interface is blue.

#### 4.4.3 Sensor

Step1: enter into system configuration→schedule configuration→alarm; refer to Fig 4-17:

Step2: the setup steps of alarm are familiar with schedule; user can refer to 4.4.1 Schedule for details.

**Note:** the default schedule of sensor is full-selected, that is, the color of schedule setting interface is blue.

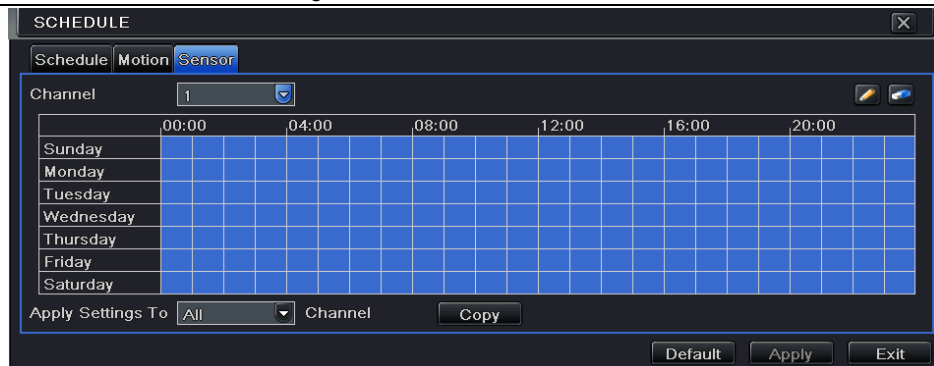


Fig 4-17 schedule configuration-sensor

## 4.5 Alarm configuration

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

### 4.5.1 Sensor

Sensor includes three sub menus: basic, alarm handling and schedule.

#### ① Basic

Step1: enter into system configuration→alarm configuration→sensor→basic; refer to Fig 4-18:



Fig 4-18 alarm configuration-sensor-basic

Step2: enable sensor alarm, set the alarm type according to triggered alarm type. Two option: NO and NC.

Step3: user can setup all channels with same parameters, tick off "all", then to do relevant setup.

Step4: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

## ② Alarm handling

Step1: enter into system configuration→alarm configuration→sensor→alarm handling; refer to Fig 4-19:

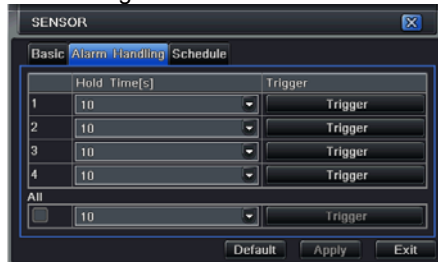


Fig 4-19 alarm configuration-sensor-alarm handling

Step2: select hold time, click Trigger button, and a dialog box will pop-up as Fig 4-20:



Fig 4-20 alarm handling-trigger

Step3: tick off Buzzer, there will be triggered buzzer alarm out;

**Full screen alarm:** when triggered alarm, there will pop up full screen alarm;

**Email:** tick of this function, when an alarm triggered, a notification email will be sent to user's designed email box including trigger events, time, snap pictures, device name, ID camera name etc.

**To alarm out:** tick off the channel, there will be triggered alarm out in the designated channel. Click OK button to save the setting; click Exit button to exit the current interface.

**To record:** tick off recoding channels, it will record the camera when alarm triggered. Click OK button to save the setting; click Exit button to exit the current interface.

**To P.T.Z:** set linked preset and cruise for alarm. User can select any channel and multi channels as linked channels. Click OK button to save the setting; click Exit button to exit the current interface.

Step4: user can setup all channels with same parameters, tick off "all", then to do relevant setup.

Step5: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

### ③ Schedule

Step1: enter into system configuration→alarm configuration→sensor→schedule; refer to Fig 4-21:



Fig 4-21 sensor-schedule

Step2: the setup steps of sensor schedule are familiar with schedule; user can refer to 4.4.1 Schedule for details.

**Note: the default schedule of sensor is full-selected, that is, the color of schedule setting interface is blue.**

## 4.5.2 Motion

Motion includes two sub menus: motion and schedule.

### ① Motion

Step1: enter into system configuration→alarm configuration→motion; refer to Fig 4-22:

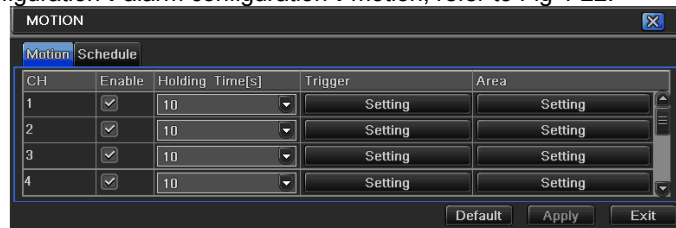


Fig 4-22 alarm configuration-motion








Step2: enable motion alarm, set alarm hold time which means time interval between two adjacent detective motions. If there is other motion detected during the interval period which is considered continuous movement; otherwise, it will be considered that those two adjacent detective motions are two different motion events. Click Trigger button, a window box will pop-up:

Step3: the setup steps of motion trigger are familiar with alarm handling; user can refer to Chapter 4.5.1 Sensor → alarm handling for more details.

Step4: click Area button, a dialog box will pop-up as Fig 4-23:



Fig 4-23 motion-area

Step5: in the Area interface, user can drag slide bar to set the sensitivity value (1-8), the default value is 4. The higher the value is the higher sensitivity you get. Due to the sensitivity is influenced by color and time (day or night), user can adjust its value according to the practical conditions; click  icon, set the whole area as detection area; click  icon, the set detection area will be cleared; click  icon, user can test whether the sensitivity value and motion area are suitable accordingly (refer to following picture) ; Click  icon, to save the setting; click  icon, exit current interface.



**Note:** when user drag mouse to set motion detection area, they have to click  icon to clear all set detection area firstly, and then make the operation.

Step6: user can setup all channels with same parameters, tick off “all”, then to do relevant setup.

Step7: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

## ② Schedule

Step1: enter into system configuration→alarm configuration→schedule; refer to Fig 4-24:

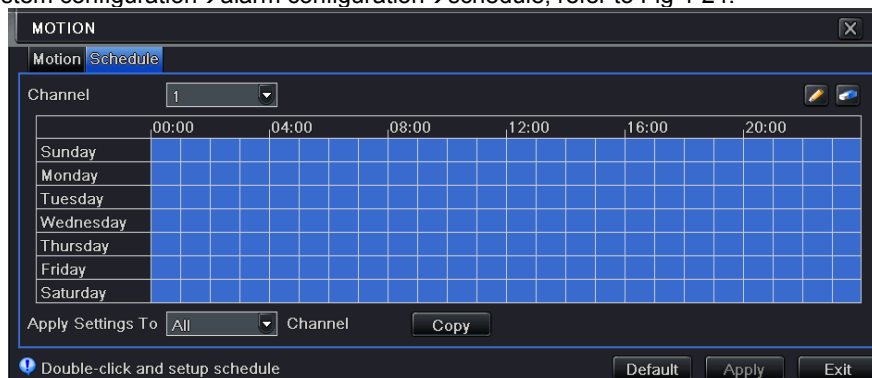


Fig3-24 alarm configuration-schedule

Step2: the setup steps of alarm schedule are familiar with schedule; user can refer to 4.4.1 Schedule for details.

## 4.5.3 Video loss

Step1: enter into system configuration→alarm configuration→video loss; refer to Fig 4-25:



Fig 4-25 alarm configuration-video loss

Step2: the setup steps of video loss trigger are familiar with alarm handling; user can refer to Chapter 4.5.1 Sensor →alarm handling for more details.

Step3: user can setup all channels with same parameters, tick off “all”, then to do relevant setup.

Step4: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

#### 4.5.4 Other alarm

Step1: enter into system configuration→other alarm; refer to Fig 4-26:

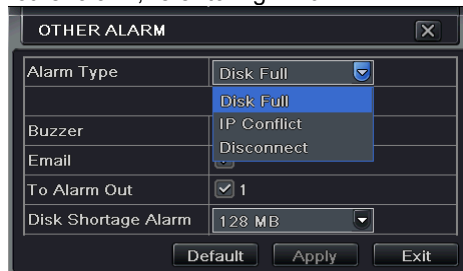


Fig4-26 other alarm

Step 2: Disk Full: If the disk is full, the device will auto send an email to users designated mailbox to notify the conflict details.

**IP conflict:** if there is an IP address conflict within the same network, the device will auto send an email to users designated mailbox to notify the conflict details.

**Disconnect:** if the disconnect happen, the device will auto send disconnection information to users designated mailbox.

Step3: the setup steps of Buzzer, Email, To Alarm Out are familiar with alarm handling; user can refer to Chapter 4.5.1 Sensor →alarm handling for more details.

Step 4: select a hard disk in the pull down list box, when the disk capacity is lower than that value, there will appear some text information on the lower right of the live image.

Step 5: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

### 4.5.5 Alarm out

Alarm out includes three sub menus: alarm out, schedule and buzzer

① Alarm out

Step1: enter into system configuration→alarm out; refer to Fig 4-27:

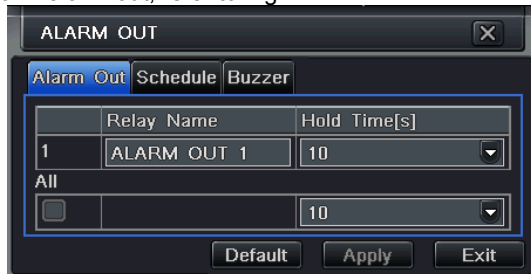


Fig 4-27 system configuration-alarm out

Step2: in this interface, set relay alarm out name, select hold time which means the interval time between the two adjacent alarms.

Step3: user can setup all channels with same parameters, tick off “all”, then to do relevant setup.

Step4: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

#### ② Schedule

Step1: enter into system configuration→schedule;

Step2: the setup steps of alarm out schedule are familiar with schedule; user can refer to 4.4.1 Schedule for details.

**Note: the default schedule of motion detection is full-selected, that is, the color of schedule setting interface is blue.**

#### ③ Buzzer

Step1: enter into system configuration→buzzer;

Step2: tick off Buzzer, set buzzer alarm hold time

## 4.6 Network configuration

Network configuration includes four submenus: network, sub-stream, email and other settings.

### 4.6.1 Network

Step1: enter into system configuration→network configuration→network; refer to Fig4-28:

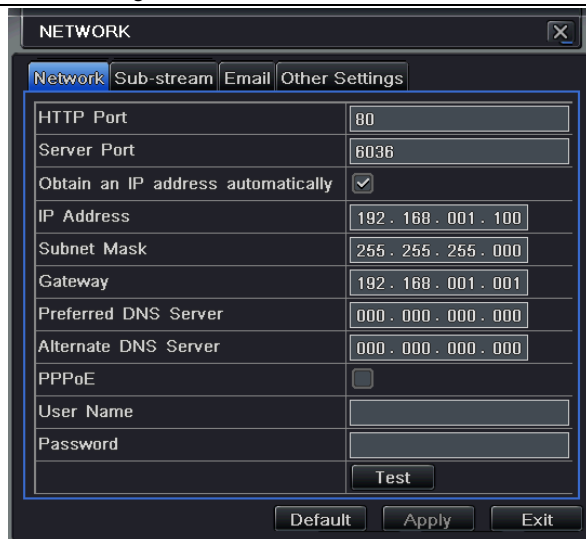


Fig 4-28 network configuration-network

Step2: **HTTP port**: the default value is 80. If the value changed, user needs to add the port number when typing IP address in IE address blank .i.e. set HTTP port to 82, IP address: <http://192.168.0.25>, user needs to input that address: <http://192.168.0.25:82> into IE browser.

Server port: communication port

Step3: Tick off the "Obtain IP address automatically", the device will distribute IP address, subnet mask, gateway IP and DNS service;

Step4: enable PPPoE, user can directly connect the DVR to internet via ADSL, then input the user name and password; click TEST button to test the effectiveness of the relevant information.

**Definitions and descriptions of network configuration:**

Parameter	Meaning
HTTP port	The port number of accessing IE browser. The default port is 80
Server port	The port number of data. The default port is 6036
<b>Static IP</b>	
IP address	The IP address of the server
Subnet mask	The subnet mask of the server
Gateway	The gateway of the server
DNS server	The address of DNS server
<b>PPPoE</b>	
User name	User name of broad band dial-up
Password	Password of broad band dial-up

#### 4.6.2 Sub stream

Step1: enter into system configuration→network configuration→sub stream; refer to Fig 4-29:

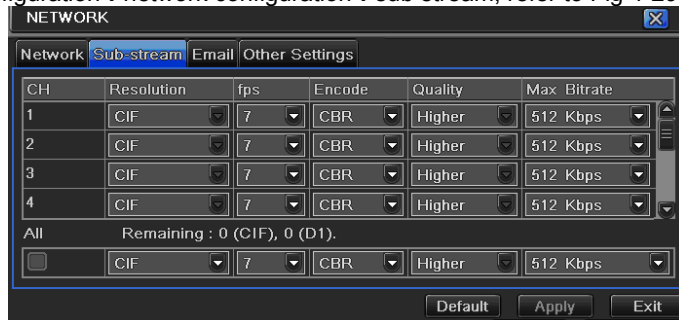


Fig 4-29 network configuration-sub stream

Step2: select fps, resolution, quality, encode and max bit rate

Step3: user can setup all channels with same parameters, tick off "all", then to do relevant setup.

Step4: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

**Note: After selecting Resolution and Fps, the rest fps will be shown.**

**Definitions and descriptions of Sub stream:**

Parameter	Meaning
FPS	Range from: 1-25
Resolution	Support CIF and D1
Quality	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.
Encode	VBR and CBR
Max bit rate	Range from: 64 Kbps、128 Kbps、256 Kbps、512 Kbps、768 Kbps、1Mbps、2 Mbps

### 4.6.3 Email

Step1: enter into system configuration→network configuration→email; refer to Fig 4-30:

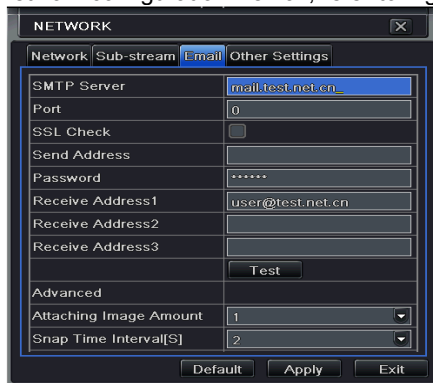


Fig 4-30 network configuration-email



**SMTP Server/Port:** the name and port number of SMTP server.

Tick off "This server requires a secure connection (SSL)"; user can setup mail servers (such as Gmail) according to actual needs,

**Send address/password:** sender's email address/password

**Receive address:** receiver's email address. Here user can add at least three mail addresses.

Click TEST button to test the validity of the mailbox.

**Attaching image amount:** user can attach at most three images at one time.

**Snap Time Interval(s):** User can select snap time interval.

#### 4.6.4 Other settings

Step1: enable DDNS server: user needs to input user name, password and host domain name of the registered website, click TEST to test the effectiveness of the relevant information.

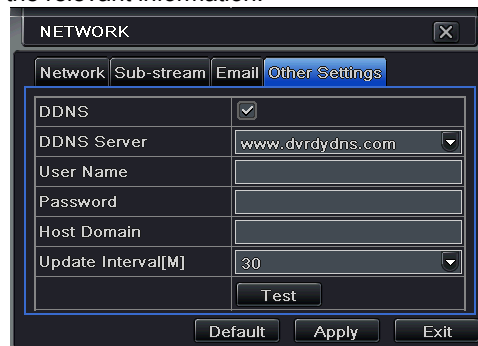


Fig 4-31 network configuration-other settings

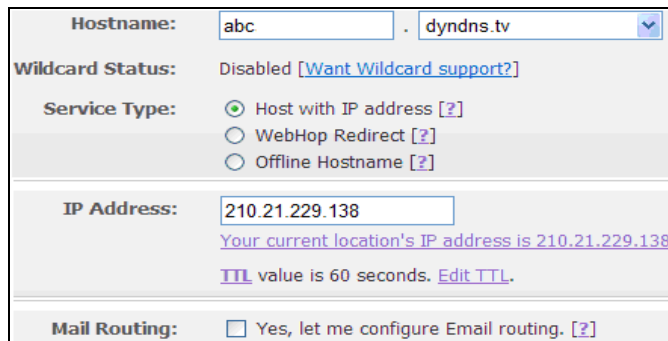
STEP2: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit the current interface.

**Note:** The domain name server that 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 firstly, and then apply a domain name on line for the server. After the successful apply, user can access the server from the IE client by inputting that domain name.

### 1. Domain name Registration (Take [www.dyndns.com](http://www.dyndns.com) for example)

Note: Users can self-define the hostname, username and password.

Input [www.dyndns.com](http://www.dyndns.com) in the IE address bar, user can access the domain name registration interface. Click “Sign up Free” and then select the first picture, click “Sign up” to register. For example: Hostname is “[abc.dyndns.tv](http://abc.dyndns.tv)”. The picture is shown as follows:



The screenshot shows a web form for DynDNS registration. It includes fields for Hostname (abc), Wildcard Status (Disabled), Service Type (Host with IP address selected), IP Address (210.21.229.138), and Mail Routing (Yes, let me configure Email routing). There are also links for help and editing.

Hostname:	abc	. dyndns.tv
Wildcard Status:	Disabled <a href="#">[Want Wildcard support?]</a>	
Service Type:	<input checked="" type="radio"/> Host with IP address <a href="#">[?]</a> <input type="radio"/> WebHop Redirect <a href="#">[?]</a> <input type="radio"/> Offline Hostname <a href="#">[?]</a>	
IP Address:	210.21.229.138 <a href="#">Your current location's IP address is 210.21.229.138</a> <a href="#">TTL</a> value is 60 seconds. <a href="#">Edit TTL</a> .	
Mail Routing:	<input type="checkbox"/> Yes, let me configure Email routing. <a href="#">[?]</a>	

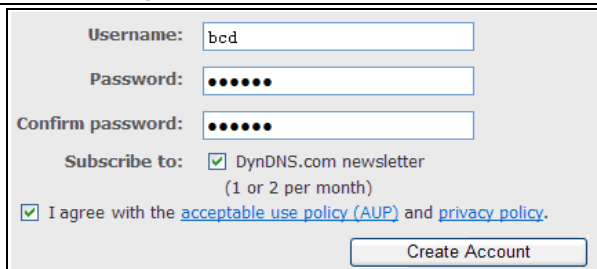
After user fill in the blank, click “Add to cart”, Dynamic DNS Hosts dialog box will be displayed.



The screenshot shows a dialog box titled "Dynamic DNS Hosts". It contains a list with one entry: "abc.dyndns.tv". To the right of the entry is a minus sign and a "remove" button.

Dynamic DNS Hosts	
<a href="#">abc.dyndns.tv</a>	- remove

Then create user account. For example, the username is “bcd”, password is “123456”.

A screenshot of a web form for creating a user account. The form has a light gray background and a thin black border. It contains the following fields and elements: a 'Username:' label followed by a text input field containing 'bcd'; a 'Password:' label followed by a password input field with seven dots; a 'Confirm password:' label followed by a password input field with seven dots; a 'Subscribe to:' label followed by a checked checkbox and the text 'DynDNS.com newsletter (1 or 2 per month)'; a checked checkbox followed by the text 'I agree with the [acceptable use policy \(AUP\)](#) and [privacy policy](#).'; and a 'Create Account' button at the bottom right.

Click "Create Account" button to create user account.

## 2. DVR Setting

### (1) Domain name

According to the domain name registration of "DDNS", the domain name for DVR is "abc.dyndns.tv"

### (2) Username and password

According to the above registration, username is "bcd".

According to the above registration, password is "123456"

## 3. Application

Connect DVR to the Network Client.

- ① Enter into Basic configuration→Network→other settings, tick off DDNS, select "Dyn dns" at the DDNS Sever pull down list box and input user name and password.
- ② Enter into configuration interface of the router, map the server port and IP address. Click Save button to save the setting
- ③ Login IE browser and input registered domain name "http://www.abc.dyndns.tv", connect to DVR client.

**Note:** If the value changed, user needs to add the port number when typing IP address in IE address blank .i.e. set HTTP port to 82, IP address: http://192.168.0.25, user needs to input that address: http://192.168.0.25:82 into IE browser.

Definitions and descriptions of network configuration:

DDNS server	
DDNS server	Website provided by dynamic domain name supplier. The optional: www.dns2p.net , www.meibu.com , www.dyndns.com and www.no-ip.com
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

Step1: enter into system configuration→user management configuration; refer to Fig 4-32:

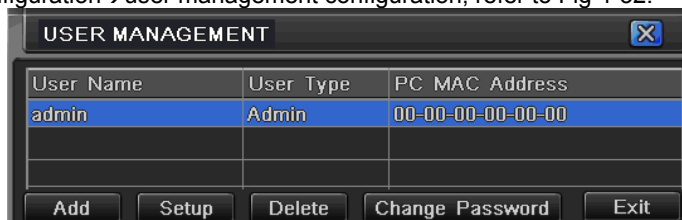


Fig 4-32 user management configuration

Step2: click Add button, a dialog box will pop-up as Fig 4-33:

The screenshot shows a 'ADD USER' dialog box with a 'General' tab selected. The dialog contains the following fields and controls:

User Name	guest
Password	
Confirm Password	
User Type	Normal
Binding PC MAC Address	<input type="checkbox"/>
PC MAC Address	00-00-00-00-00-00

At the bottom right of the dialog are 'OK' and 'Exit' buttons.

Fig 4-33 add-general

General: Input user name, password; select user type: normal and advance, input the MAC address of the PC; click OK button, this user will be added into the user list box; click Exit button to exit the current interface.

**Note:** when the default value of binding PC MAC address is 0, the user is not bind with the specify computer; the, the user can log in DVR on the binding computer after set the specific binding MAC address. The admin user can add 64 users at most.

## 4.8 P.T.Z configuration

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

### ① Serial port

Step1: enter into system configuration→P.T.Z configuration→serial port; refer to Fig 4-34:

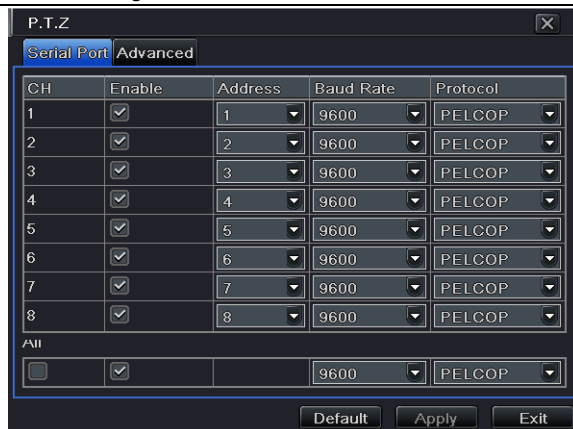


Fig 4-34 P.T.Z configuration-serial port

Step2: tick off Enable, setup the value of address, baud rate and protocol according to the settings of the speed dome.

Step3: user can setup all channels with same parameters, tick off "all", then to do relevant setup.

Step4: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

#### Definitions and descriptions of 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、21600.
Protocol	Communication protocol of the PTZ device. Range from: NULL、PELCOP、PELCOD、LILIN、MINKING、NEON、STAR、VIDO、DSCP、VISCA、SAMSUNG、RM110、HY

## ② Advance

Step1: enter into system configuration→ P.T.Z configuration→advance; refer to Fig 4-35:

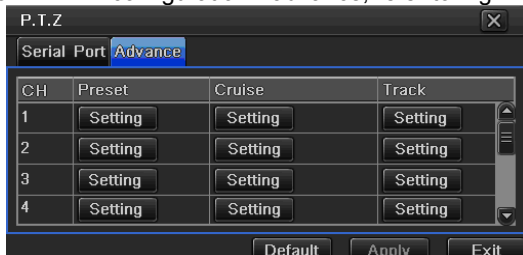


Fig 4-35 P.T.Z configuration-advance

Step2: in the Advance interface, click preset "Setting" button, a dialog box will pop-up as Fig 4-36:





Fig 4-36 advance-preset setting

a. in the preset set interface, click Setting button, a dialog will pop-up as Fig 4-37:



Fig 4-37 preset set-setting

- b. user can control the dome rotates up, up left, down, right down, left, left down, right and up right and stop rotating; adjust the rotate speed and the value of zoom, focus and iris of the dome;
- c. select the serial number of the preset point. Click Save button to save the settings, click  icon to hide the tool bar, right-key can remerge it; click  icon to exit the current interface.
- d. in the preset interface, click OK button to save the setting; click Exit button to exit current interface.
- Step3: in the Advance interface, click cruise "Setting" button, a dialog box will pop-up as Fig 4-38:

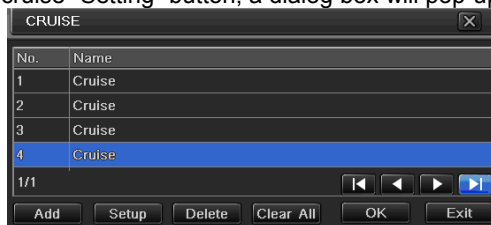


Fig 4-38 cruise set

- a. click Add button to add cruise line in the list box (max 8 cruise line can be added); select a cruise line, click Setup button, a window box will pop-up as Fig 4-39:

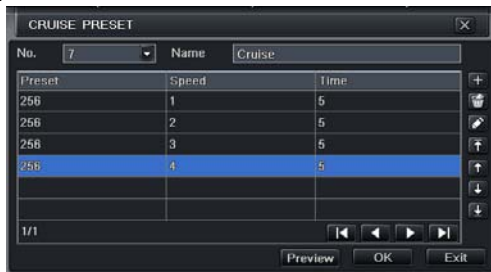









Fig 4-39 cruise set-modify cruise line



b. click Add icon  to set the speed and time of preset point; select a preset point, 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, click Exit button to exit current interface.

c. select a preset point in the cruise line list box, click Delete button to delete that cruise line; click Clear all button to clear all cruise line from the list box; click OK button to save the setting; click Exit button to exit current interface.

Step4: in the Advance interface, click track "Setting" button, a dialog box will pop-up as Fig 4-40:

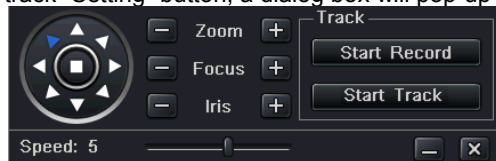




Fig 4-40 track setting

a. user can control the dome rotates up, up left, down, right down, left, left down, right and up right and stop rotating; adjust the rotate speed and the value of zoom, focus and iris of the dome; click Start Record button to record the move track of PTZ, click this button again can stop record; click Start track button to play recorded track, click this button again can stop play.

b. click  icon to hide the tool bar, right-key can remerge it; click  icon to exit the current interface.

Step5: in the Advance interface, click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

Note: PTZ supports mouse operation. User can move the mouse to control PTZ and drag the picture.

## 4.9 Reset

Reset all settings, the device will reboot.

## 5 Record search & playback and backup

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

### 5.1 Time search

Step1: enter into Search configuration→time search; refer to Fig 5-1:

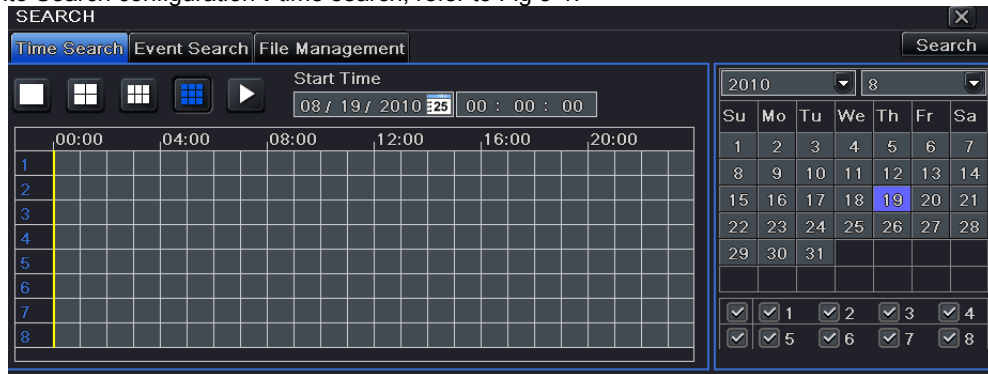


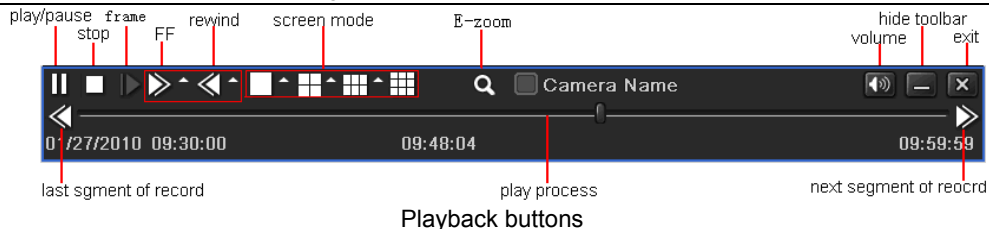
Fig 5-1 Search configuration-time search

Step2: select channel, screen display mode, the highlight date in the calendar means have record data

Step3: select a date, press Search button, click the time grid to set the play start time or input play record time manually. The selected time match the blue grid.

**Note: the vertical column means hours, horizontal column means channels.**

Step4: click Play  button to playback record; click the relevant buttons on the screen to do operation:



Playback buttons

**Note:** when the monitor resolution is VGA800\*600, the time search interface will appear a hide button, click this button, the whole interface can be expanded.

## 5.2 Event search

Step1: enter into Search configuration→event search; refer to Fig 5-2:

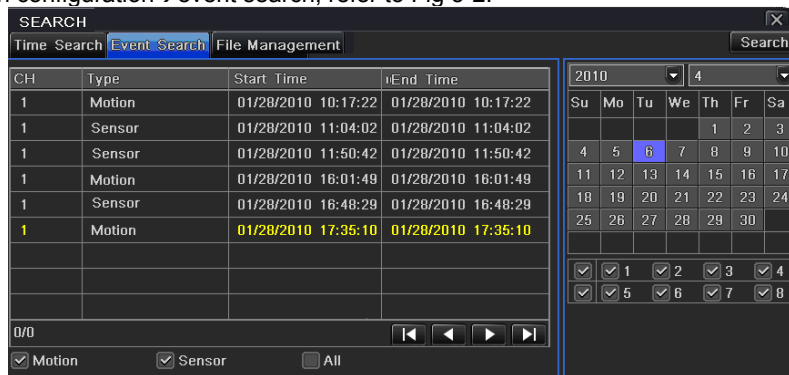


Fig 5-2 Search configuration-event search

Step2: click Search button, the searched event information will displayed in the event list box, user can select date, channel,

tick off Motion, Sensor or All accordingly.

Step3: double check a certain record file to playback.

**Note:** when the monitor resolution is VGA800\*600, the event search interface will appear a hide button, click this button, the whole interface can be expanded.

## 5.3 File management

Step1: enter into Search configuration→file management; refer to Fig 5-3:

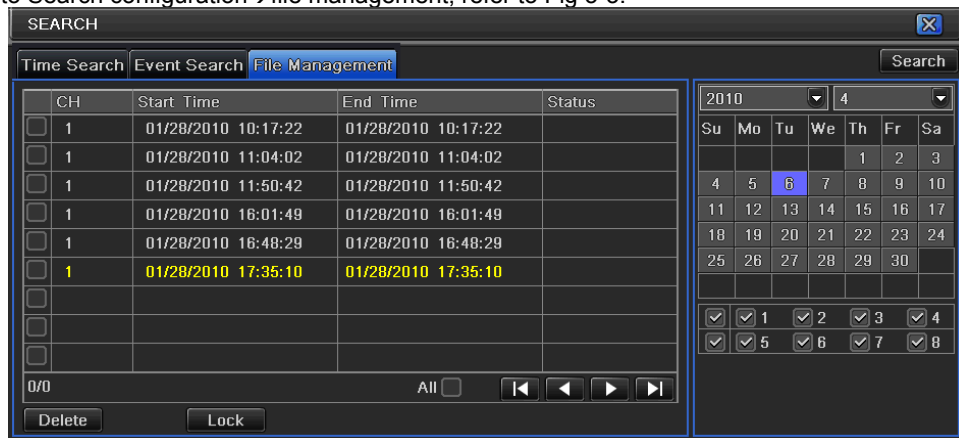


Fig 5-3 Search configuration-file management

Step2: click Search button, the searched files will be displayed in the file list box, user can select date, channels accordingly.

- ① Lock: checked a file, click Lock button to lock this file, after that, that file will not be deleted or covered.
- ② Unlock: checked a locked file, click Lock button to unlock this file

③ Delete: checked an unlocked file, click Delete button to delete this file.

Step3: tick off "All" button; user can lock/unlock or delete all files in the file management column.

Step4: double click an unlocked item to playback.

**Note: when the monitor resolution is VGA800\*600, the file management interface will appear a hide button, click this button, the whole interface can be expanded.**

## 5.4 Backup

This unit supports backup by USB device, through the USB port on the front panel. User also can make backup by IE browser via internet. Refer to 7.3.2 Remote backup.

Step1: enter into backup configuration; refer to Fig 5-4:



Fig 5-4 backup configuration

Step2: set the start & end time, select channels, click Search button, the searched data will be displayed in the data backup list box

Step3: checked a data file or tick off "All" to select all data files, click Backup button, a dialog box will pop-up as Fig 5-5:

BACKUP INFORMATION	
Start Time	08/09/2010 00:00:00
End Time	08/09/2010 23:59:59
The Number Of Files	16
Size[GB]	2.008
Storage Media	CD/DVR-ROM
Free[GB]	0.000
Backup Player	<input checked="" type="checkbox"/>
Save File Type	DVR
0 %	
<input type="button" value="Start"/> <input type="button" value="Cancel"/>	

Fig 5-5 backup information

Step4: in the backup information interface, user can check the relevant information of backup files, storage type, save file type, etc. click Start button to starting backup.

**Note:** when the monitor resolution is VGA800\*600, the file management interface will appear a hide button, click this button, the whole interface can be expanded.

## 6 Manage DVR

### 6.1 Check system information

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

#### 6.1.1 System information

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

#### 6.1.2 Event information

In this interface, user can check record events according to set date.

#### 6.1.3 Log information

In this interface, user can check relevant log information according to set date.

#### 6.1.4 Network information

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

#### 6.1.5 Online information

In this interface, user can check the details of the current connection of online users.

### 6.2 Disk management

Step1: enter into disk management interface.

**Note: please format the hard disk before record. If not being formatted, it will show the status of the disk-free space, and total space show OM at the bottom of screen.**

Step2: click Refresh button to refresh the disk information of the list box; set the property of the disk then click Apply button to save the setting

Step3: checked a hard disk, click Format button to start format.

**Note: all recorded files in the hard disk will be lost after formatted.**

## 6.3 Upgrade

At present, it only supports USB update. Get the software from your vendor when there is a new software version, and make sure it is corresponding with the DVR. User can check the USB information in Disk management.

**Upgrade method:** the user needs to copy the upgrade software which gets from vendor into the USB storage device and then connect to the USB port. Enter Menu→Upgrade, the upgrade software name is displayed in the upgrade list box, select that software and then click upgrade button. It will upgrade automatically. Please wait for a while when the system is rebooted. Never cut off power during upgrading.

## 6.4 Logoff

Click Log off icon, a log off dialogue box will popup, click OK button, the device will log off. If user wants to log in again, click



icon to enter into user name and password to re-login.



## **7 Remote Surveillance**

### **7.1 Accessing DVR**

If making remote view, the DVR must connect with LAN or internet. Then enable network server in the unit. Please refer to 4.6 Network Configuration.

This unit supports IE browser, not any client software installed. In addition, it supports XP and Vista.

#### **7.1.1 On LAN**

Step1: Input IP address, Subnet, Gateway. If using DHCP, please enable DHCP in both the DVR and router. Enter Menu—Information—Network, and user can check the network configuration of DVR.

Step2: Enter Video to set network video parameters like resolution, frame rate etc.

Step3: Open IE browser on a computer on the same LAN. Input the IP address of the DVR in IE address blank and enter.

Step4: IE will download ActiveX automatically. Then a window pops up and asks for user name and password.

Step5: Input name and password correctly, and enter. It will show the picture as below.

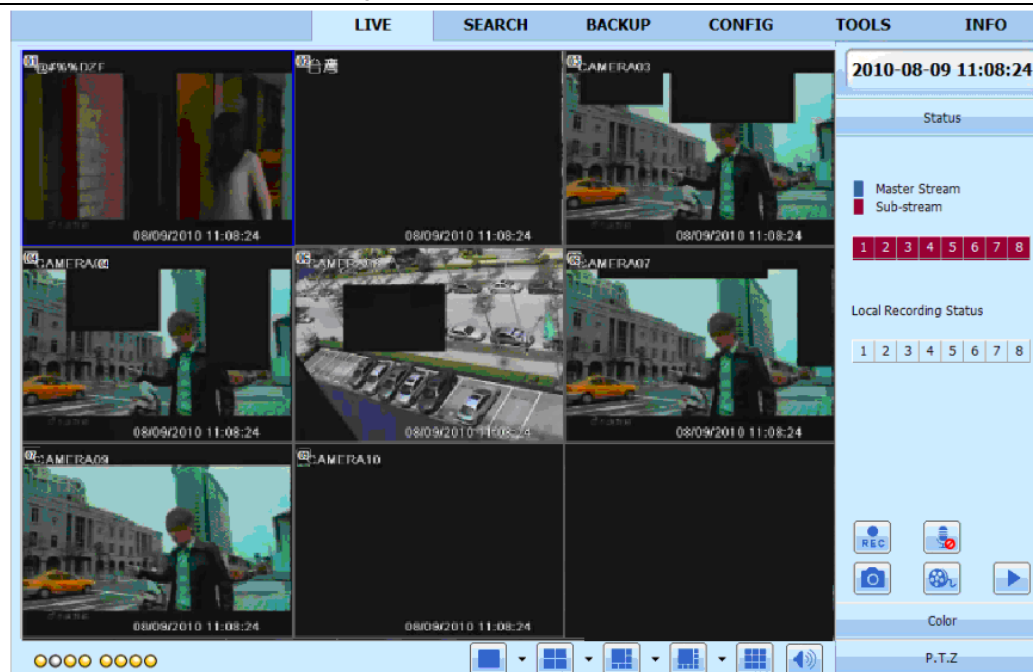


Fig 7.1 View with IE browser

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

### 7.1.2 On WAN

There are two ways that the DVR is connected to internet.

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

Step1: Input IP address, Subnet, Gateway. If using DHCP, please enable DHCP in both the DVR and router.

Step2: Enter Video to set network video parameters like resolution, frame rate etc.

Step3: Forward IP address and port number in Virtual Server setup of the router or virtual server. Close firewall.



**Notice:** Forwarding block may be different in different routers and server, please check your router manual.

If users want to utilize dynamic domain name, need apply for a domain name in a DDNS server supported by the DVR or router. Then add to the DVR or router.

Now this unit only supports [www.dns2p.com](http://www.dns2p.com) , [www.meibu.com](http://www.meibu.com) , [www.dyndns.com](http://www.dyndns.com), and [www.no-ip.com](http://www.no-ip.com)

About the router, please check in the router manual.

Step5: 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.

Step6: IE will download ActiveX automatically. Then a window pops up and asks for user name and password.

Step7: Input name and password correctly, and enter to view.



**Notice:** If you cannot download and install ActiveX, please refer to Appendix A FAQ Q8.

2. Connect the DVR to internet directly.

Step1: Input IP address, Subnet, Gateway gotten from your ISP. If using ADSL, please input user name and password, and click OK. The DVR will connect the server and show "connection succeeds".

Step2: The following steps are the same as Step 4-7 of the connection way above.

## 7.2 The remote live preview interface as below:

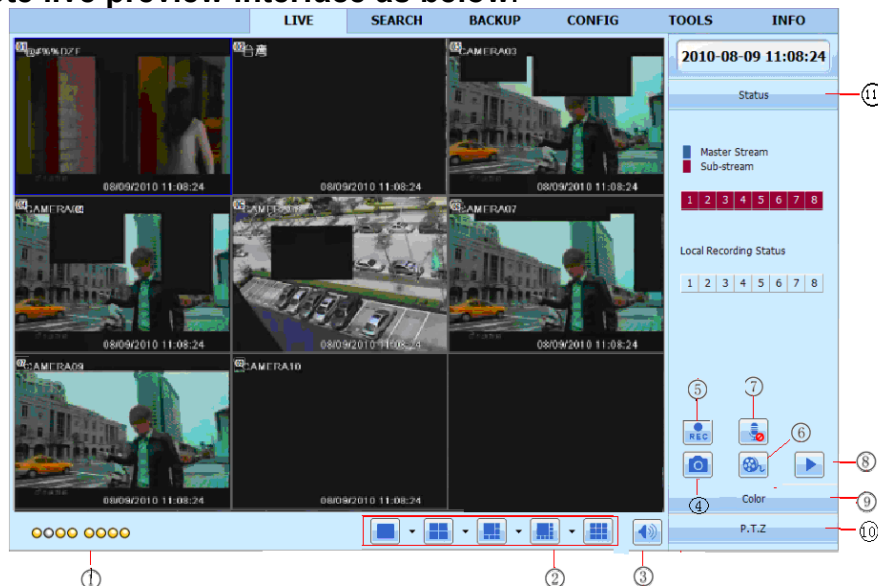


Fig 7-2 Remote live preview interface

### Symbol and function Definitions:

①	Channel indicator	②	Screen display mode	③	Volume
④	Snapping picture	⑤	Start manual record	⑥	Start IE record
⑦	Bidirectional talk	⑧	Playback	⑨	Color
⑩	PTZ control	⑪	Master/sub stream status		



**Note:** click  button to record manual and the record file will be saved in user's PC.

Screen display mode:

Click the  icon beside the screen display mode, channel select dialog will appear as below:



**Fig 7-3 Channel select dialog**

Take 8-channel DVR for example: user can tick off channels form 1-ch to 8-ch at random to display the live pictures, 6 channels can be selected at most. Then click OK button to confirm the setting.

### Snap pictures


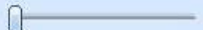

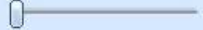



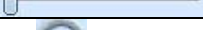




Click "Snap"  icon, the system will automatically capture pictures and save those pictures in the computer.

User should 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

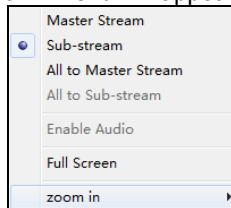
**PTZ control**

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
	▲ means the dome rotate up. ▼ means the dome rotate up left. ▼ means the dome rotate up right. ▼ means the dome rotate down. ▲ means the dome rotate left down. ▲ means the dome rotate right down. ▲ means the dome rotate left. ▲ means the dome rotate right. ■ means the dome stop rotating.
	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.
 <input type="text"/> ▼	Go to the Preset
 <input type="text"/> ▼ 	Select and do auto cruise
	Track
	Auto scan

Click the right mouse on the live interface, a pull-down menu will appear as below



**Fig 7-4 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, users can select the stream according to their bandwidth.

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

**Enable audio:** enable or disable audio

**Full screen:** the live preview picture will display with full screen, the tool bar will be hidden; double click left mouse or click right mouse to return

**Zoom in:** Single channel large screen electronic amplification

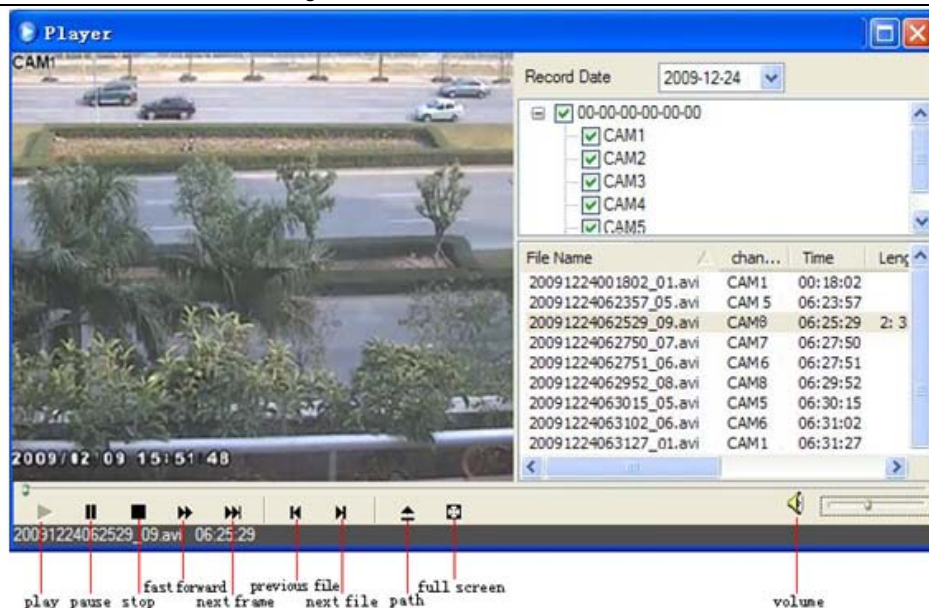
Left click the channel which needs to amplify; Click the right mouse, select Zoom in button and then click the left mouse to amplify the image. Press left mouse to drag the cursor, user can view the image. Double-click the left mouse to exit. Click the right mouse to return to the main interface.

## 7.3 Remote playback & backup

### 7.3.1 Remote playback

Click  button to enter into record playback interface, refer to Fig 7-5:

Select the record date and channels; double-click the file name in the record file list box, user can play that file and preview the picture.



**Fig 7-5 Play record file interface**

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

**By Time Search:**

**Step1:** Enter into Search→time search; refer to Fig 7-6:



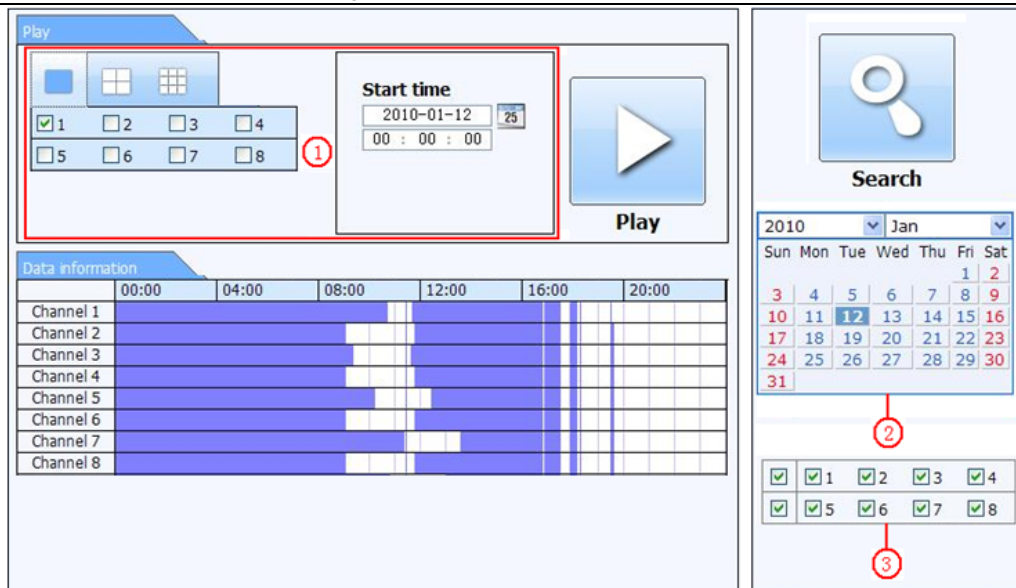


Fig 7-6 time search interface

**Step2:** click “Search” button. The record data will be displayed in the data information list box; the highlight date in the area② means have record data, click those data; select the record channels in area③

**Step3:** User can set the data playing time and display mode in the area① as required

**Step4:** Select certain item from the data information list box, click “play” button to playback

**Step5:** Click the relevant buttons in the interface; user can do some operations such as: FF, pause, change channel mode, research, etc. refer to Fig 7-7:

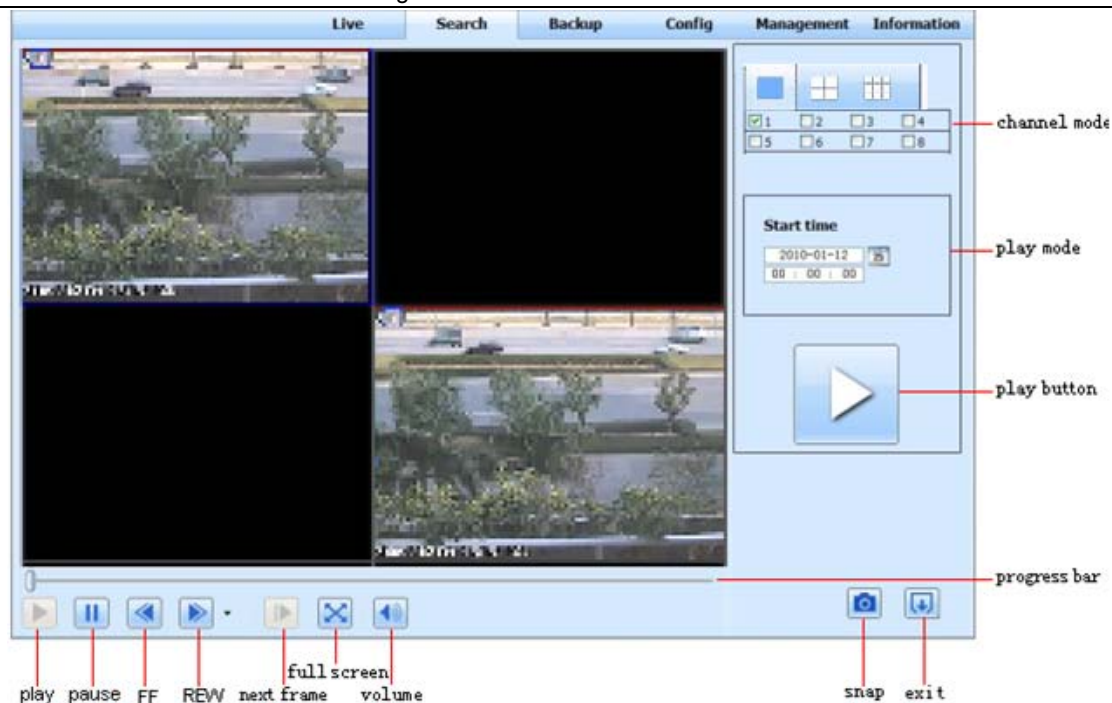


Fig 7-7 Time search playback

**By Event Search:**

**Step1:** Enter into Search→event search; refer to Fig 7-8:

Event list

CH	Start time	End time	Type
1	2010-01-09 00:01:07	2010-01-09 00:02:16	motion
1	2010-01-09 00:03:28	2010-01-09 01:24:11	manual
1	2010-01-09 00:08:36	2010-01-09 00:09:31	motion
1	2010-01-09 00:10:10	2010-01-09 00:10:58	motion
1	2010-01-09 00:11:30	2010-01-09 00:12:15	motion
1	2010-01-09 00:14:48	2010-01-09 00:15:43	motion
1	2010-01-09 00:15:45	2010-01-09 00:17:09	motion
1	2010-01-09 01:24:11	2010-01-09 02:46:11	manual
1	2010-01-09 02:46:11	2010-01-09 03:19:45	manual
1	2010-01-09 17:39:52	2010-01-09 17:57:12	manual
2	2010-01-09 00:01:07	2010-01-09 00:01:53	motion
2	2010-01-09 00:02:18	2010-01-09 00:03:01	motion
2	2010-01-09 00:03:01	2010-01-09 00:04:12	motion
2	2010-01-09 00:03:32	2010-01-09 00:54:27	manual
2	2010-01-09 00:14:22	2010-01-09 00:15:03	motion
2	2010-01-09 00:21:54	2010-01-09 00:22:35	motion
2	2010-01-09 00:23:51	2010-01-09 00:24:33	motion
2	2010-01-09 00:25:12	2010-01-09 00:25:54	motion
2	2010-01-09 00:26:57	2010-01-09 00:28:43	motion
2	2010-01-09 00:31:48	2010-01-09 00:32:30	motion

1/31

◀◀

▶▶

Search

2010

▼

Jan

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Sun

Mon

Tue

Wed

Thu

Fri

Sat

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☒ 1
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☒ 3
☒ 4

☒ 5
☒ 6
☒ 7
☒ 8

☒ Motion
☒ Sensor

Fig 7-8 event search interface

**Step2:** click the highlight date and select record channels and then tick off the event type: motion and sensor, click “search” button

**Step3:** the events will be display in the event list box, double-click certain item to playback

## File Management

**Step1:** Enter into Search→file management; refer to Fig 7-9:

The interface is divided into two main sections. The left section, titled 'File list', contains a table with columns: Check, Channel, Start time, End time, and Status. The right section contains a search panel with a magnifying glass icon, a 'Search' label, a date selector (2010 Jan), a calendar, and a list of checked items (1, 2, 3, 4, 5, 6, 7, 8).

Check	Channel	Start time	End time	Status
<input type="checkbox"/>	1	2010-01-09 00:01:07	2010-01-09 00:02:16	motion
<input type="checkbox"/>	1	2010-01-09 00:03:28	2010-01-09 01:24:11	manual
<input type="checkbox"/>	1	2010-01-09 00:08:36	2010-01-09 00:09:31	motion
<input type="checkbox"/>	1	2010-01-09 00:10:10	2010-01-09 00:10:58	motion
<input type="checkbox"/>	1	2010-01-09 00:11:30	2010-01-09 00:12:15	motion
<input type="checkbox"/>	1	2010-01-09 00:14:48	2010-01-09 00:15:43	motion
<input checked="" type="checkbox"/>	1	2010-01-09 00:15:45	2010-01-09 00:17:09	motion
<input type="checkbox"/>	1	2010-01-09 01:24:11	2010-01-09 02:46:11	manual
<input type="checkbox"/>	1	2010-01-09 02:46:11	2010-01-09 03:19:45	manual
<input type="checkbox"/>	1	2010-01-09 17:39:52	2010-01-09 17:57:12	manual
<input type="checkbox"/>	2	2010-01-09 00:01:07	2010-01-09 00:01:53	motion
<input type="checkbox"/>	2	2010-01-09 00:02:18	2010-01-09 00:03:01	motion
<input type="checkbox"/>	2	2010-01-09 00:03:01	2010-01-09 00:04:12	motion
<input type="checkbox"/>	2	2010-01-09 00:03:32	2010-01-09 00:04:27	manual
<input type="checkbox"/>	2	2010-01-09 00:14:22	2010-01-09 00:15:03	motion
<input type="checkbox"/>	2	2010-01-09 00:21:54	2010-01-09 00:22:35	motion
<input type="checkbox"/>	2	2010-01-09 00:23:51	2010-01-09 00:24:33	motion
<input type="checkbox"/>	2	2010-01-09 00:25:12	2010-01-09 00:25:54	motion
<input type="checkbox"/>	2	2010-01-09 00:26:57	2010-01-09 00:28:43	motion
<input type="checkbox"/>	2	2010-01-09 00:31:48	2010-01-09 00:32:30	motion

Below the table are buttons: All, None, Inverse, 0/0, and navigation arrows. At the bottom are buttons: Lock, Unlock, Delete.

Fig 7-9 file management interface

**Lock:** select certain file item in the file list box, click “Lock” button to lock this file that ca not be deleted or overlaid

**Unlock:** select a locked file, click “unlock” button to unlock this file

**Delete:** select an unlock file, click “delete” button to delete this file from file list

### 7.3.2 Remote backup

Click Backup button to enter into backup interface, refers to Fig 7-10:

The interface is divided into two main panels. The left panel contains a 'File list' table with columns for selection, CH, Start time, End time, and Status. Below the table are buttons for 'All', 'Null', and 'Invert', a 'File path' input field, and 'Browse' and 'Backup' buttons. The right panel features a 'Search' button with a magnifying glass icon, 'Start time' and 'End time' selection fields, and a grid of checkboxes for selecting specific files.

	CH	Start time	End time	Status
<input type="checkbox"/>	1	2010-01-09 00:01:07	2010-01-09 00:02:16	
<input type="checkbox"/>	1	2010-01-09 00:03:28	2010-01-09 01:24:11	
<input type="checkbox"/>	1	2010-01-09 01:24:11	2010-01-09 02:46:11	
<input type="checkbox"/>	1	2010-01-09 02:46:11	2010-01-09 03:19:45	
<input type="checkbox"/>	1	2010-01-09 17:39:52	2010-01-09 17:57:12	
<input type="checkbox"/>	2	2010-01-09 00:01:07	2010-01-09 00:01:53	
<input checked="" type="checkbox"/>	2	2010-01-09 00:02:18	2010-01-09 00:03:01	
<input type="checkbox"/>	2	2010-01-09 00:03:01	2010-01-09 00:54:27	
<input type="checkbox"/>	2	2010-01-09 00:54:27	2010-01-09 01:47:11	
<input type="checkbox"/>	2	2010-01-09 01:47:12	2010-01-09 03:09:10	
<input type="checkbox"/>	2	2010-01-09 03:09:10	2010-01-09 03:19:45	
<input type="checkbox"/>	2	2010-01-09 15:11:08	2010-01-09 15:11:54	
<input type="checkbox"/>	2	2010-01-09 15:16:17	2010-01-09 15:17:03	
<input type="checkbox"/>	2	2010-01-09 15:19:30	2010-01-09 15:20:17	
<input type="checkbox"/>	2	2010-01-09 15:21:54	2010-01-09 15:22:41	
<input type="checkbox"/>	2	2010-01-09 15:23:20	2010-01-09 15:24:04	
<input type="checkbox"/>	2	2010-01-09 15:28:09	2010-01-09 15:28:53	
<input type="checkbox"/>	2	2010-01-09 15:37:23	2010-01-09 15:38:09	
<input type="checkbox"/>	2	2010-01-09 15:46:09	2010-01-09 15:46:52	
<input type="checkbox"/>	2	2010-01-09 15:53:33	2010-01-09 15:54:19	

Search

Start time  
2010-01-12 25  
00 : 00 : 00

End time  
2010-01-12 25  
23 : 59 : 59

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

File path

Backup

Fig 7-10 remote backup interface

Step1: select channels, set the start and end time, then click "search" button, the file information will be displayed in the file list box

Step2: select backup files, click "browse" button to set the save path, and then click "backup" button to start backup. The backup files will be saved on user's PC.

## 7.4 Remote System Configuration

User can remote setup the parameters of the device. Functions of remote configurations include: basic configuration, live configuration, record configuration, schedule configuration, alarm configuration, network configuration, PTZ configuration and user configuration. User should firstly select an item in the menu list on the left, and then setup the relative parameters. When one user setup parameters of a certain item, others cannot setup this one. Click Config to enter into the below interface refer to Fig 7-11:

The screenshot displays the 'CONFIG' tab of the remote system configuration interface. On the left, a 'main menu' bar contains tabs for LIVE, SEARCH, BACKUP, CONFIG, TOOLS, and INFO. Below this, a 'sub menu' is visible, listing various configuration options: Local config, Basic, Live, Record, Schedule, Alarm, Network, P.T.Z, and Users. The 'Local config' option is selected, leading to the 'Local Config' sub-menu. This sub-menu contains several sections: 'Local View' with 'Snap Path' (E:\) and 'Snap Amount' (4); 'Remote Playback' with 'Snap Path' (C:\Users\kevin\Documents) and 'Snap Amount' (10); 'Local Record' with 'Save Path' (F:\15) and 'Record Channel' (all channels 1-8 checked); and 'Audio Channel' (all channels 1-4 unchecked). Each section has a 'Browse' button for the path fields. At the bottom of the sub-menu are 'Apply' and 'Default' buttons.

Fig 7-11 remote menu setup

The sub menu lists and the options in every item are similar with those on the DVR. Please refer to Chapter 3 Main Menu Setup Guide for more details. Click “Apply” button to save above settings; click “default” button will recover the original settings.

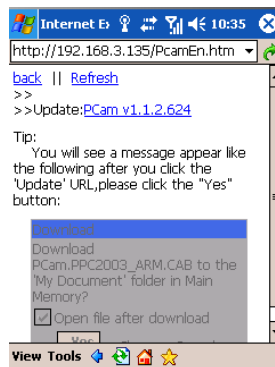
## 8 Mobile Surveillance

This DVR supports mobile surveillance by Iphone, Gphone, Blackberry or smart phones with Windows mobile and symbian OS. At the same time, it supports 3G network. We tested Dopod D600 (WM5) and Dopod S1 (WM6), which work fine with the DVR.

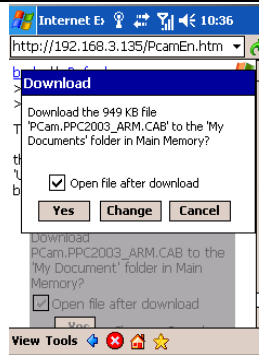
The user who wants to make mobile surveillance first needs to enable network service on the DVR. Please refer to Chapter 4.6 Network configuration. The below is the operation instructions on mobile client end for two OS.

### 8.1 By Phones with Windows mobile

**Step1** : Firstly activate the network access on mobile phone and then run “Internet Explorer”. Input the server’s address and the connection is built up shown as below:

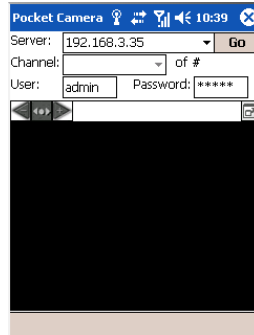


**Step2** : Click on the software name. A dialog box pops up:



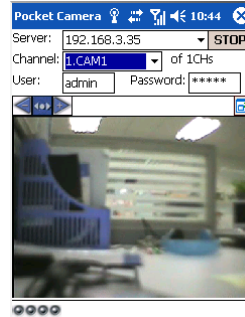
**Step3** : Click “Yes” to start downloading and installing:

**Step4** : PCam will be opened automatically after installed

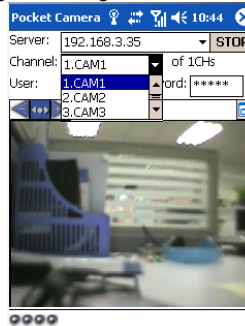


**Step5** : Input the server’s address, ID and password respectively in the columns of “Server”, “User” and “Password”, and click “Go” to log on the server. It will show the picture if access successfully.





**Step6** : Camera 1 is the default channel after login. Change the channel in rolling-down menu of “Channel”:



 **Notice:** User name and password here are the same with that used on the DVR. The default is admin and 123456.

## 8.2 By Phones with Symbian

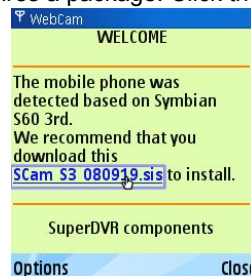
Please use the smart phones with symbian version supported by this unit.

**Step1** : Firstly enable the network access on mobile phone. Then run Web browser.

**Step2** : Input the DVR server's IP address in a new-built bookmark. Click this bookmark to connect to the DVR.



**Step3** : A welcome window will pop up and requires a package. Click the software name to download



**Step4** : A security windows will pop up after downloading and ask if install the package. Click YES to install.

**Step5** : A Scam shortcut icon appears on the system menu after finished.

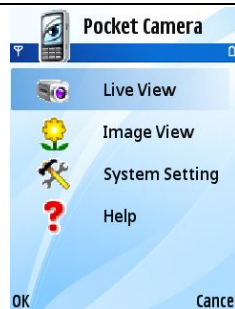
**Step6** : Run Scam program. It will enter a function interface.

**Live view**: to do mobile live view

**Image view**: to check the pictures snapped in live view

**System setting**: Login setting and Alarm setting.

**Help**: function indication and help



**Step7** : Click System setting--->Login Setting to enter login interface.

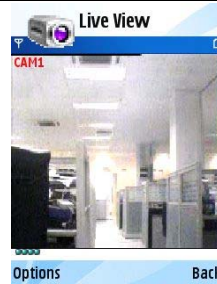


**Step8** : Input the server's address, ID and password respectively. Then save.



**Notice:** About Access point, there may be different access points in different countries or from service providers.

**Step9** : Enter Live View, it will connect the server and display pictures.



**Notice:** User name and password here are the same with that used on the DVR. The default is admin and 123456.

**Step10 :** In Live View, users can do snapshot, change channels and control PTZ.



## 8.3 The operation method for iPhone mobile clients

### 1. Install through iphone.

Step 1. Open App Store function of iphone

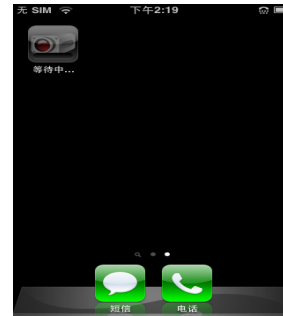
Step 2. Enable “search”  function to search “SuperCam”

## Digital Video Recorder User Manual



Step 3: Click SuperCam, enter into “introduce” interface and then click “FREE”, it will change into “INSTALL”





**Step 4:** Input iTunes Store password and then click “OK”, the software will be installed automatically.

**Note:** if it was the first time for user to operate, please enter user ID; if there is no Store account, user needs to apply one.

## 2. Install through PC.



Step 1: Install iTunes store in PC and then login



Step 2: Connect iPhone and PC

## Digital Video Recorder User Manual



Step 3: Enable “search”



function to search “SuperCam”



Step 4: Click “free application” button



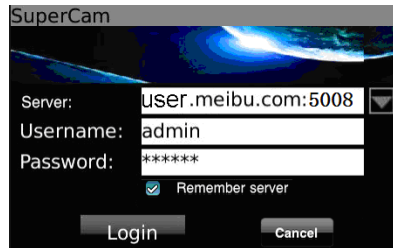
Step 5: Input apple ID and password, then click “acquire”



Step 6: Tick off “synchronously apply program” and “SuperCam”, and then click “apply” button

### Operation Instruction for iphone

#### 1. Login interface



Enter server's IP address (or domain name), user name and password

Click “Remember server” to save the setting; click ▼ button can quick input saved server address, user name and password.

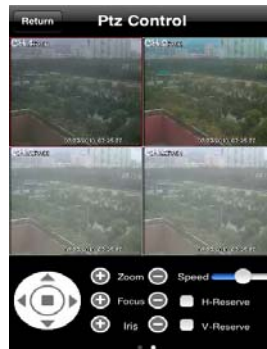
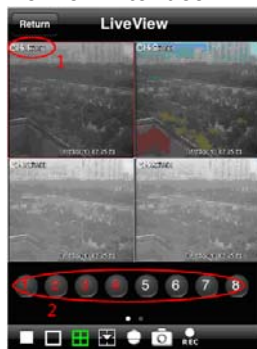

















## 2. Main Interface



【Playback】	playback record file	【Image】	image view
【Log】	log record	【Server List】	device list
【Live】	live view	【Settings】	software setting
【Information】	device information view	【Help】	software help center
【Logoff】	logoff and return to login interface		





## 3. Live View Interface



Mark 1	Current viewing channel	Mark 2	Channel status
	Switch channels		PTZ, click to switch to Fig 2 interface
	Snap picture		Record
	Close the video of the current channel		Live audio
	Switch to the single image		Switch to four images
	Upward rotates the PTZ		Downward rotates the PTZ
	Leftward rotates the PTZ		Rightward rotates the PTZ
	Stop rotating the PTZ		Zoom In/Focus In/Iris Add
	Zoom Out/Focus Out/Iris Sub	Preset	elect the preset point
Group	Set the cruise line	Speed	Rotate speed of the PTZ
H-Reverse	Horizontal- Reverse	V-Reverse	Vertical- Reverse

#### 4. Image view interface



-  previous
-  next
-  the first picture
-  the last picture
-  cope pictures to album
-  delete

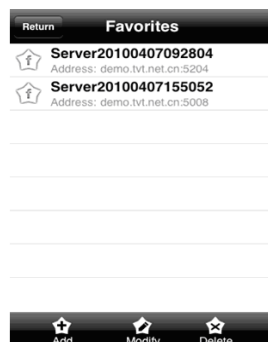
## 5. Record Playback interface






-  play/pause
-  stop
-  forward
-  backward

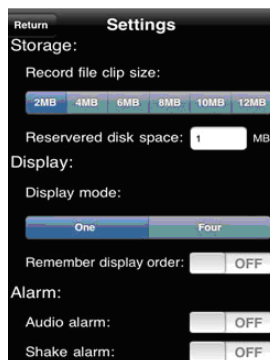
Click the record file to playback.

## 6. Server list Interface



-  Add a server list
-  Modify a server list
-  Delete a server list

## 7. Config interface



Main parameters for mobile phone video config

**Record file clip size:** Single video size. When the video size is greater than setup value, change another video files

**Reserved disk space:** Reserved SD Card disk space, when the disk space is less than setup value, the video will be stopped

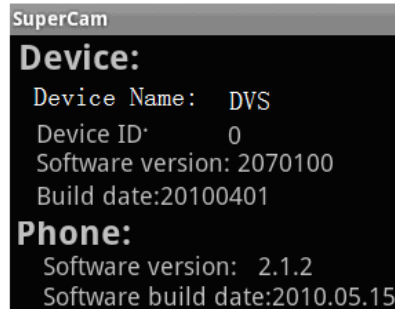
**Display config :**

Display mode: User can select one live picture display or four live picture displays

Remember display order: User can choose whether to remember display order or not.

**Alarm config :** Select Audio Alarm. When Video Loss/Sensor/Motion happens, trigger sound alarm. Select shake Alarm. When Video Loss/Sensor/Motion happens, trigger virate alarm.

## 8. Information View Interface



**Device name:** the current device name

**Device ID:** the current connection device ID

**Software version:** the current connection device software version

**Build date:** the current connection device build date

**Software version:** the software version of mobile phone in use

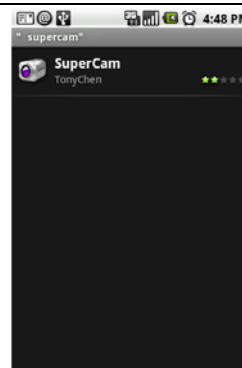
**Software build date:** the software build date of mobile phone in use

## 8.4 The installation & operation methods for Android mobile clients

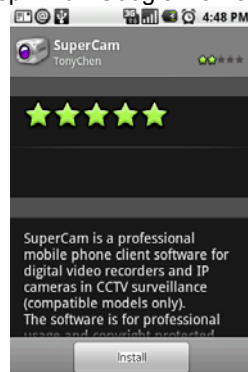
### Software Installation



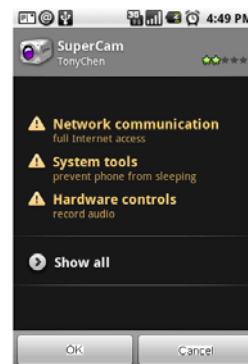
Step 1: run Google Market program



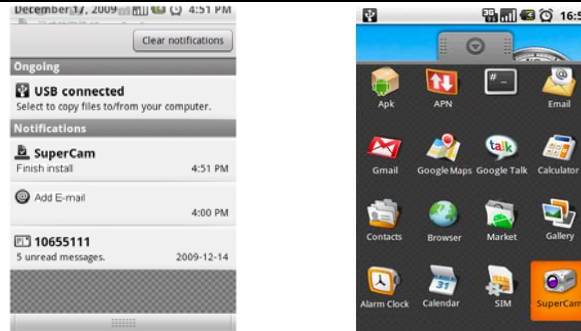
Step 2: search "SuperCam"



Step 3: press "Install" button



Step 4: click "OK" button



Step 5: user can view the download and install process in notifications; finished download, the software will install automatically.

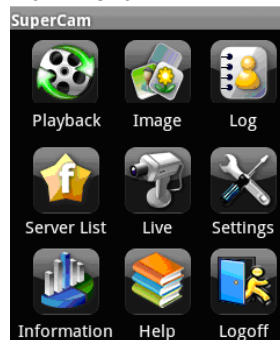
### Login



Enter into server's IP address (or domain name), user's ID and password.

Click "Remember server" to save the setting; click ▼ button can quick input saved server address, user name and password.

## Main menu



【Playback】	playback record file	【Image】	image view
【Log】	log record	【Server List】	device list
【Live】	live view	【Settings】	software setting
【Information】	device information view	【Help】	software help center
【Logoff】	logoff and return to login interface		

## Live view


















(Fig 1)









(Fig 2)



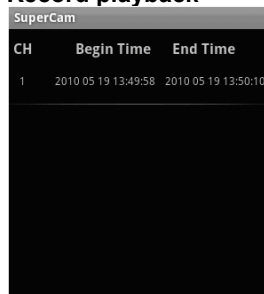
Mark 1	Current viewing channel	Mark 2	Channel status
	Switch channels		PTZ, click to switch to Fig 2 interface
	Snap		record
	talk		Live audio
	Full screen		Return
	Upward rotates the PTZ		Downward rotates the PTZ
	Leftward rotates the PTZ		Rightward rotates the PTZ
	Stop rotates the PTZ		Zoom In/Focus In/Iris Add
	Zoom Out/Focus Out/Iris Sub	Preset	Select the preset point
Group	Set the cruise line		

### Image view



	Previous		Next
	Zoom out		Delete
	Zoom in		Return to main menu

## Record playback



(Fig 3)

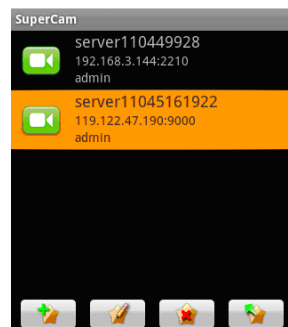


(Fig 4)

Click the record file (Fig 3) to playback (Fig 4)

	Play/pause
	Full screen
	stop
	Return to record file interface (Fig 3)

## Server list



Add a sever list



Modify a sever list




Delete a server list

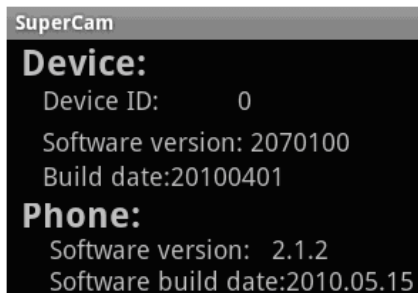


Return to main menu

**Config interface**

<b>Alarm setting</b>	Tick off Sound Alarm, when Video Loss/Sensor/Motion happen, trigger sound alarm; Tick off Vibrate Alarm, when Video Loss/Sensor/Motion happen, trigger vibrate alarm
<b>Storage setting</b>	User can setup the relevant parameters of mobile video. This function can be valid only insert SD card.
<b>Path</b>	Save path for mobile video files, the default catalog is /SDCard/. Click  button to change path.
<b>Reserved disk space</b>	reserved SDCard disk space, when the disk space is less than setup value, the video will be stopped
<b>Video clip size</b>	Single video size. When the video size is greater than setup value, change another video files
<b>Remove all recorder files before</b>	delete all current video files

## Information view



**Device ID:** the current connection device ID

**Software version:** the current connection device software version

**Build date:** the current connection device build date

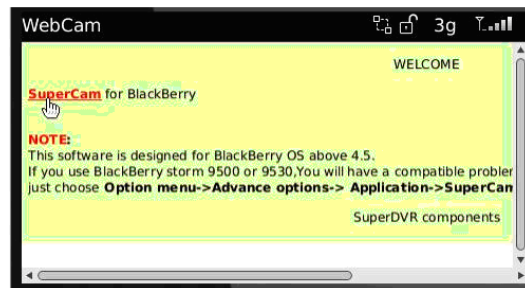
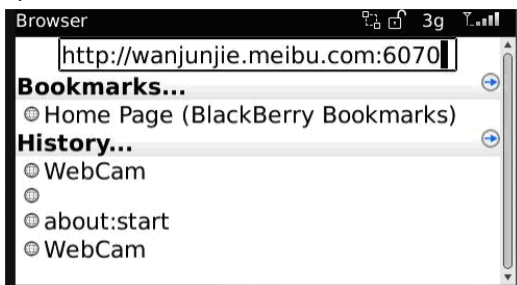
**Software version:** the software version of mobile phone in use

**Software build date:** the software build date of mobile phone in use

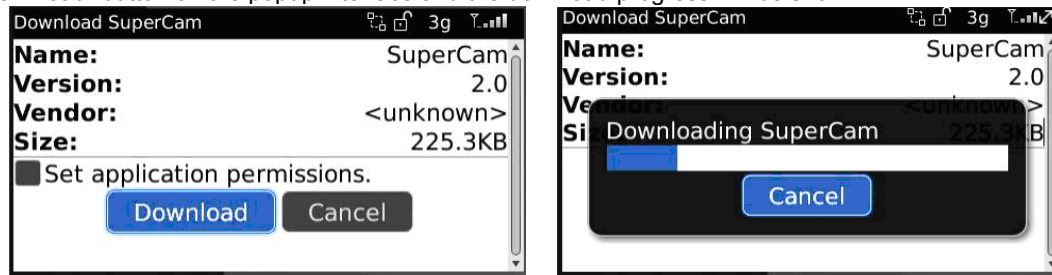
## 8.5 Installation and operation Methods for BlackBerry Mobile phone Client

### 8.5.1 Installation instruction for BlackBerry Mobile phone Client

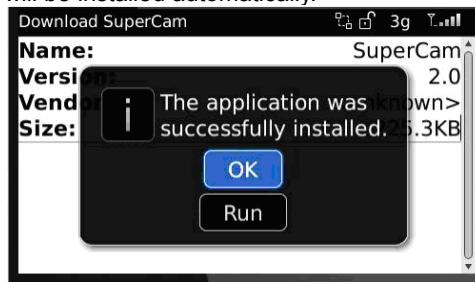
1. Open the browser of BlackBerry phone and enter sever address
2. Click "SuperCam" to link



3. Click "Download" button on the popup interface and the download progress will be shown.



4. Finished downloading, the software will be installed automatically.

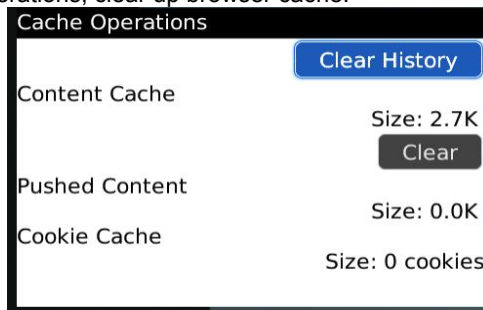


**Note:** If the software fails to download, please check in accordance with the following steps:

1. Check whether the network of mobile phone is normal or not
  2. Check whether DVR server connect network normally or not
  3. Modify the option of Browser Configuration.
- 1) Enter into Menu->Option->Browser Configuration; configure referring to the following figure.



2) Enter into Menu->Option->Cache Operations, clear up browser cache.



**Note :** When user used the SuperCam software in mobile phone with touch screen, there will be compatible problem.

**Solution:** Enter into Options Menu->Advance options->Applications->SuperCam and click “Disable Compatibility” button. This problem will be solved.

## 8.5.2 Operation method for Blackberry mobile phone client

### 1. Login



Enter server's IP address (or domain name), user's ID and password.

Click "Remember server" to save the setting; click ▼ button can quick input saved server address, user name and password.

### 2. Main interface















<b>Playback</b>	playback record file	<b>Image</b>	image view	<b>Live</b>	live view
<b>Log</b>	log record	<b>Server List</b>	device list	<b>Settings</b>	software setting
<b>Information</b>	device information view	<b>Help</b>	software help center	<b>Logoff</b>	logoff and return to login interface

### 3. Live view





Mark 1	Current viewing channel	Mark 2	Channel status
	Switch channels		PTZ, click to switch to Fig 2 interface
	Snap		Full screen
	Background alarm		Stop rotating the PTZ
	Upward rotates the PTZ		Downward rotates the PTZ
	Leftward rotates the PTZ		Rightward rotates the PTZ
	Zoom In/Focus In/Iris Add		Zoom Out/Focus Out/Iris Sub
Preset	Select the preset point	Group	Set the cruise line

#### 4. Server list

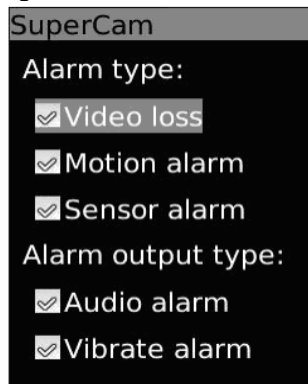


**[Add]** Add a server list

**[Modify]** Modify a server list

**[Delete]** Delete a server list

## 5. Software configuration



**Alarm type:** Setup the type of background alarm

(Video Loss/Sensor/Motion)

**Alarm output type:** Setup prompt type of background

Alarm (sound alarm/ vibrate alarm)

## 6. Information view



**Device ID:** the current connection device ID

**Software version:** the current connection device software version

**Build date:** the current connection device build date

**Software version:** the software version of mobile phone in use

**Software build date:** the software build date of mobile phone in use

## Appendix A FAQ

### **Q1. Why the DVR cannot start after connected to the power?**

- a. The adapter has been damaged. Please change an adapter
- b. The power of the adapter is not enough. Please remove the HDD to check
- c. Hardware problem

### **Q2. There is not menu output or only has live image display**

- a. Check up whether other devices can display menu or long press ESC key to wait for login dialog box to appear.

### **Q3. The indicator of the DVR lights, but no output. Why?**

- a. The power of the adapter is not enough. Please remove the HDD or change an adapter to try.
- b. The video format of the DVR is different from that of the monitor.
- c. Connection problem. Please check the cable and the ports of monitor and DVR.

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

- a. Connection problem. Please check the cable and the ports of camera and DVR.
- b. Camera problem. Please check the cameras.
- c. The video format of the DVR is different from that of the cameras. Please change DVR system format.

### **Q5. Cannot find HDD**

- a. The power of the adapter is not enough. Please change an adapter to try.
- b. Connection problem. Please check the power and data cables.
- c. The HDD is damaged. Change a new one.

### **Q6. Cannot record**

- a. Don't format HDD. Please format it manually first.
- b. Don't enable record function or incorrect setup. Please refer to Chapter 5 Record search & playback and backup.
- c. HDD is full and not enables recycle function. Please refer to 4.3 Record configuration. Change a new HDD or enable recycle.
- d. The HDD is damaged. Change a new one.

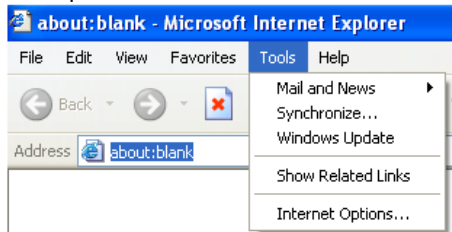
**Q7. Cannot use mouse.**

- a. wait 1-2 minutes after mouse connected.
- b. Not detected. Plug/unplug several times.
- c. The mouse is incompatible. Please change a mouse.

**Q8. Cannot download ActiveX control.**

- a. IE browser blocks ActiveX. Please do setup following below.

① Open IE browser. Click Tools-----Internet Options....



- ② select Security-----Custom Level....Refer to Fig 8-1
  - ③ Enable all the sub options under “ActiveX controls and plug-ins” refer to Fig 8-2
  - ④ Then click ok to finish setup.
- b. Other plug-ins or anti-virus block ActiveX. Please uninstall or close them.

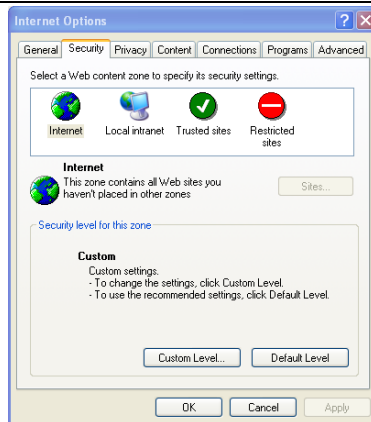


Fig 8-1

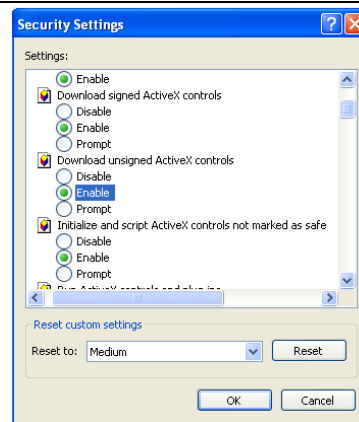


Fig 8-2

## Q9: How to deal with when DVR starts, it displays “please wait...”all the time

First possible reason: hard-disk cable and data cable are not well connected.

Solution: Please check the connection of hard-disk cable and data cable and make sure they are well connected; If still not working, please unplug them and then try re-plugging again;

Second possible reason: It is forced to stop because hard disk has disabled track which causes the system checking hard disk cannot skip

Solution: Change another new hard disk or reformat the broken one

## Q10: How to input password and digital numbers

The method to input password and digital numbers is to click the box behind *password* or *items* needing to input by numbers, and then the small keyboard will appear. Please select number or letter to input (the initial password is 123456), or you can use the digital keys in the front panel, or the digital keys on the remote controller.

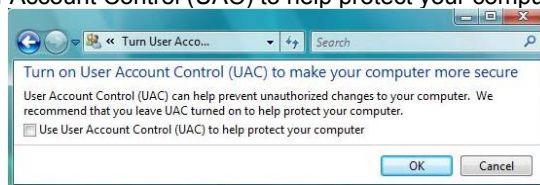
**Q11: What are the minimum configurations of PC for clients connecting?**

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

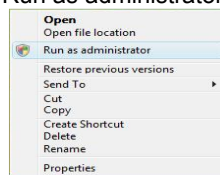
**Q12: How to handle the situation when codec Control is blocked to install in the VISTA or Win7 system?**

If user gets this problem, may have two ways to fix it:

a. Enter Control Panel→User Account and Family Safety → User Account Control(refer to below picture); click Turn User Account on or off. Cancel Use User Account Control (UAC) to help protect your computer.



b. Right click IE browser (refer to Fig 12-2), select Run as administrator to run browser.



## 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.

Video Format	Resolution	Frame Rate Totally(FPS)	Video Quality	Bit Rate (kbps)	Used Space(MB/h)
NTSC	CIF	30	Highest	1M	465
			Higher	768k	297
			Medium	512k	230
			Low	384k	173
			Lower	256k	115
			Lowest	128k	56
PAL	CIF	25	Highest	1M	466
			Higher	768k	295
			Medium	512k	235
			Low	384k	175
			Lower	256k	112
			Lowest	128k	56.4

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 PAL cameras, set resolution to CIF, video quality to Lowest, frame rate to 25 fps for enabling total 4channel. He wants the unit to record continuously in a month. Below is the calculation:

**Total Recoding capacity =56.4 (mb/h) X 24(hours/day) X30(days) X4(channels) 162432(MB)≈160(GB)**

Therefore, customers just install one SATA HDDs with 160GB, it can almost record for one month.

## Appendix C Compatible Devices

Compatible USB drive after test.

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

**Tab C.1 Compatible USB drive**



## Appendix D 4-CH Specifications

Compression format	Standard H.264 Baseline
Video output	Composite : 1.0V p-p/75Ω BNC×2 , VGAX1
Video input	Composite : 1.0V p-p/75Ω BNC×4
VGA Resolution	1280*1024 /1024*768/ 800*600
Record Resolution	352*288/704*576 (PAL), 352*240/704*480(NTSC)
Display Frame Rate	100FPS (PAL), 120FPS (NTSC)
Record Frame Rate	100FPS (PAL), 120FPS (NTSC)
Audio input	-8dB~ 22k, RCA X4
Audio output	-8Db~92dB, RCA X1
Alarm input	NO or NC 4CH
Alarm output:	1CH
Record Mode	Manual / Sensor /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	12V3A
Temperature	0℃-50℃
Humidity	10%-90%
Average Operating Power (Excluding HDD)	≤30W

## Appendix E 8-CH Specifications

Compression format	Standard H.264 Baseline
Video output	Composite : 1.0V p-p/75Ω BNC×2 , VGAX1
Video input	Composite : 1.0V p-p/75Ω BNC×8
VGA Resolution	1280*1024 /1024*768/ 800*600
Record Resolution	352*288/704*576 (PAL), 352*240/704*480(NTSC)
Display Frame Rate	200FPS (PAL), 240FPS (NTSC)
Record Frame Rate	200FPS (PAL), 240FPS (NTSC)
Audio input	-8dB~ 22k, RCA X8
Audio output	-8Db~92dB, RCA X1
Alarm input	NO or NC 8CH
Alarm output:	1CH
Record Mode	Manual / Sensor /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	12V3A
Temperature	0℃-50℃
Humidity	10%-90%
Average Operating Power (Excluding HDD)	≤30W