

Thank you for purchasing our product.  
Please read this user's manual before using the product.  
Change without notice

# H.264 4/8/16 CH Analogue HD TVI-DVR User's Manual

Type A: 1 SATA (TVI-04 / TVI-08 / TVI-16)



Type B: 2 SATA (TVI-16-1U)



## CAUTION

- Please read this user manual carefully to ensure that you can use the device correctly and safely.
- There may be several technically incorrect places or printing errors in this manual. The updates will be added into the new version of this manual. The contents of this manual are subject to change without notice.
- This device should be operated only from the type of power source indicated on the marking label. The voltage of the power must be verified before using. If the device doesn't work for a long time, pull out the plug from the socket.
- Do not install this device near any heat sources such as radiators, heat registers, stoves or other device that produce heat.
- Do not install this device near water. Clean only with a dry cloth.
- Place the device in a well-ventilated area.
- Do not power off the DVR at normal recording condition! The correct operation to shut off DVR is to stop recording firstly, and then to select "shut-down" button at the right of the menu bar to exit, and finally to cut off the power.
- This machine is indoor using equipment. Do not expose the machine in rain or moist environment. In case any solid or liquid get into the machine's case, please cut off the power supply immediately, and ask for qualified technicians to check the machine before restart
- Do not try to repair the device by yourself without technical aid or approval.
- When this product is in use, the relevant contents of Microsoft, Apple and Google will be involved in. The pictures and screenshots in this manual are only used to explain the usage of our product. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google shall belong to the above-mentioned companies.
- This manual is suitable for 4/8/16 channel digital video recorders.

## 1.1 Main Features

### COMPRESSION FORMAT

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

### LIVE SURVEILLANCE

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

### RECORD MEDIA

- Type A supports one SATA HDD / Type B two SATAs to record for a longer time without any limitation

### BACKUP

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

### RECORD & PLAYBACK

- Record modes: Manual, Schedule, Motion detection recording
- Supports recycle after HDD full
- Resolution, frame rate and picture quality are adjustable
- 4/8/16 CH 720P / 1080P / 960H and IP recording  
(IP function: 4CH model supports 1 IP cam 、 8CH model supports 4 IP cam 、 16CH model supports 8 IP cam)
- 1 audio channel available
- Three record search modes: time search, event search and image search
- 4/8/16 channels playback simultaneously
- Supports deleting and locking the recorded files one by one
- Supports remote playback in Network Client through LAN or internet

### ALARM

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

### PTZ CONTROL

- Supports various PTZ protocols
- Supports 128 PTZ presets and 8 auto cruise tracks
- Supports 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
- Supports 1 administrator and 63 users.
- Supports event log recording and checking, events unlimited

### NETWORK

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

※ 960H resolution recording capabilities, will be based on purchase models.

## 1.2 Front Panel Instructions

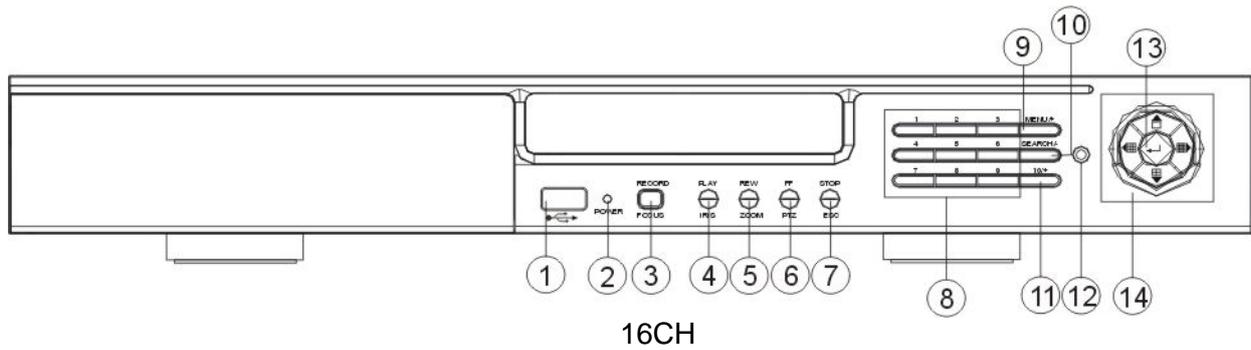
- **Notice:** The pictures are only for reference; please make the object as the standard.

### Front Panel (Type A): TVD-04 / TVD-08 / TVD-16



Front Panel (4/8/16CH)

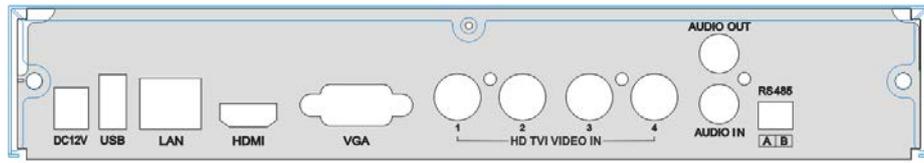
Label Name	Function
REC / FOCUS	Manual record / focus adjustment(PTZ)
PLAY / IRIS	Enter Playback/ iris adjustment (PTZ)
REW / SPEED	Fast rewind on playback mode /speed adjustment (PTZ)
FF / P.T.Z.	Fast forward on playback mode /enter PTZ mode
MENU / +	Enter menu page / increase value
BACKUP / -	Enter backup page / decrease value
STOP / ESC	Stop playback on playback mode / Exit menu or jump back to previous page
Split / Direction Key	Switch split / Move selected item
Enter	Validate action
USB	Connect USB thumb drive or mouse
IR receiver	Remote receiver

**Front Panel (Type B): TVD-16-1U**

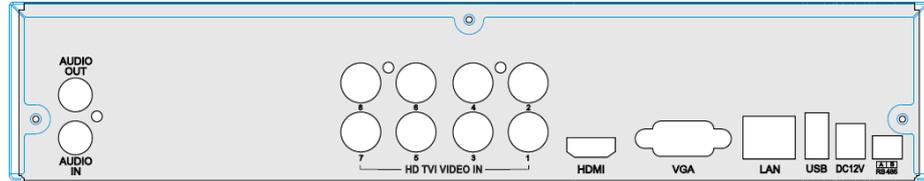
No	Label Name	Function
1	USB	Connect USB thumb drive or mouse
2	POWER	Power indicator
3	REC / FOCUS	Manual record / FOCUS adjustment(PTZ)
4	PLAY / IRIS	Enter Playback/ IRIS adjustment (PTZ)
5	REW / ZOOM	REW on playback mode / ZOOM adjustment (PTZ)
6	FF / P.T.Z.	FF on playback mode /Enter PTZ mode
7	STOP / ESC	STOP playback on playback mode / Exit MENU or jump back to previous page
8	Digital	Enter digital or select channel
9	MENU / +	Enter MENU page / increase value
10	SEARCH / -	Enter SEARCH page / decrease value
11	10+	To enter digital over 10 / Continuously press twice to have 10
12	IR receiver	Remote receiver
13	Enter	Enter
14	Split / Direction Key	Switch split / Move selected item

### 1.3 Rear Panel Instructions

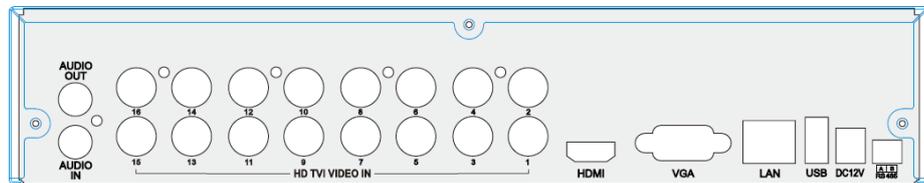
#### Type A: TVD-04 / TVD-08 / TVD-16



Rear Panel for 4 CH

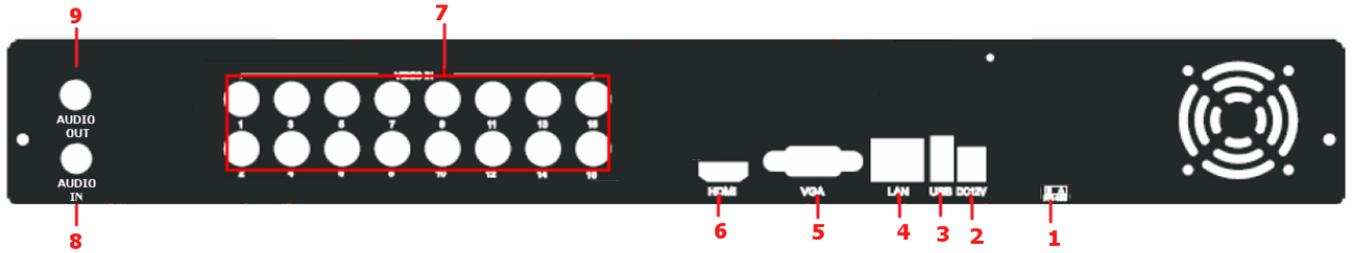


Rear Panel for 8 CH



Rear Panel for 16 CH

Name	Descriptions
DC12V	DC12V Power Input.
USB	To connect external USB devices like USB mouse or USB storage device.
LAN	Network Port.
HDMI	HDMI Port. Connect to high-definition display device.
VGA	VGA Port. Connect to monitor.
HD TVI VIDEO IN	4/8/16 CH HD TVI Video Inputs.
AUDIO OUT	Audio output, connect to the sound box.
AUDIO IN	1 CH Audio Input.
RS485	Connect to keyboard or speed dome; A is TX +; B is TX-.

**Type B: TVD-16-1U**

Rear Panel for 16-ch

Item	Label name	Function
1	RS485	Connect to speed dome or keyboard
2	POWER INPUT	DC12V
3	USB	To connect external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse
4	LAN	Network port
5	VGA	VGA output, connect to monitor
6	HDMI	Connect to high-definition display device
7	VIDEO IN	TVI Video input channels from 1-16
8	AUDIO OUT	Audio output, connect to the sound box
9	AUDIO IN	1 CH Audio input

## 1.4 Remote Controller (Optional)

It uses two AAA size batteries.

- Open the battery cover of the Remote Controller.
- Place batteries. Please take care of the polarity (+ and -).
- Replace the battery cover.

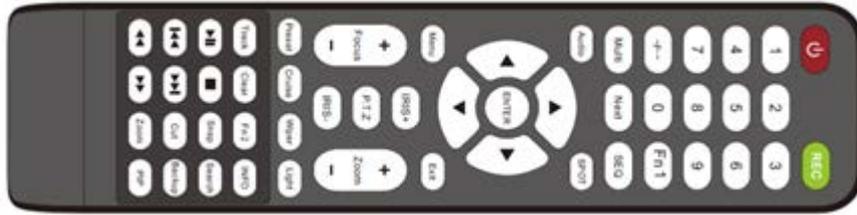


Fig. 1-4 Remote Controller

Button	Function
Power Button	Switch off—to stop DVR. Use it before turning off the power
Record Button	To record manually
-/-- /0-9 Digital Button	Input number or choose camera
Fn1 Button	Unavailable temporarily
Multi Button	To choose multi screen display mode
Next Button	To switch the live image
SEQ	To enter into auto dwell mode
Audio	To enable audio output in live mode
Switch	To switch the output between BNC and VGA
Direction button	To move cursor in setup or pan/title PTZ
Enter Button	To confirm the choice or setup
Menu Button	To enter into menu
Exit Button	To exit the current interface
Focus/IRIS/Zoom/PTZ	To control PTZ camera. Move camera/zoom/IRIS/Focus
Preset Button	To enter into preset setting in PTZ mode
Cruise Button	To enter into cruise setting in PTZ mode
Track Button	To enter into track setting in PTZ mode
Wiper Button	To enable wiper function in PTZ mode
Light Button	To enable light function in PTZ mode
Clear Button	To return to the previous interface
Fn2 Button	Unavailable temporarily
Info Button	Get information about DVR like firmware version, HDD information
	To control playback. Play/Pause/Stop/Previous Section/Next Section/Rewind/Fast Forward
Snap Button	To take snapshots manually
Search Button	To enter into search mode
Cut Button	To set the start/end time for backup in playback mode
Backup Button	To enter into backup mode
Zoom Button	To zoom in the images
PIP Button	To enter into picture in picture setting mode

## 1.5 Control with Mouse

### 1.5.1 Connect Mouse

It supports USB mouse through the port on the rear panel, please refer to Fig.1-4 Remote Controller.

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

1. Make sure the mouse is connected to the USB mouse port not the USB port
2. try another mouse

### 1.5.2 System operation by mouse

The structure of the main menu is shown in Fig.1-4 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.1-4 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 Fig.1-5. It supports digitals, letters and symbols input.



**Fig. 1-5 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.

## 2 Basic Function Instruction

### 2.1 Power On/Off

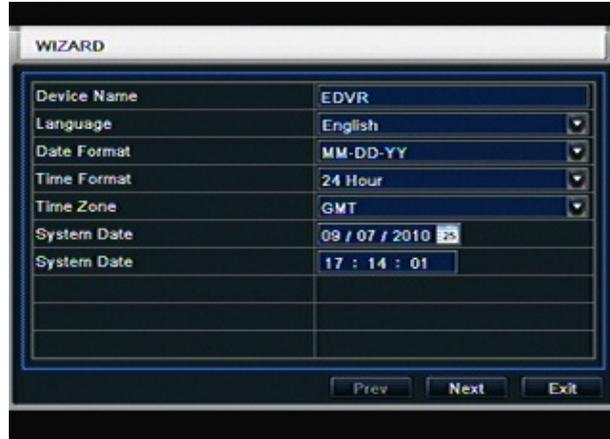
Before you power on the unit, please make sure all the connection is good.

#### 2.1.1 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 start to boot, and the power indicator will become blue

Step3: before start, a WIZARD dialogue box will pop-out (refer to below picture) and show some information about time zone and time setup, IP information, record quick setup and HDD information page.



After the device powers 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.

#### 2.1.2 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

### 2.2 Login

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



Fig. 2-1 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 Fig 2-1 User management configuration for more details.

## 2.3 Live preview

### 2.3.1



Fig. 2-2 live preview interface

The explanation of symbol in the live preview interface:

symbol	meaning	symbol	meaning
Green	Manual record	Red	Alarm in trigger record
Yellow	Motion detection record	Blue	Schedule record

### 2.3.2 Live playback

Click Play button to playback the recorded video. Refer to Figure2-3. User can do concrete operation by click the buttons on screen.

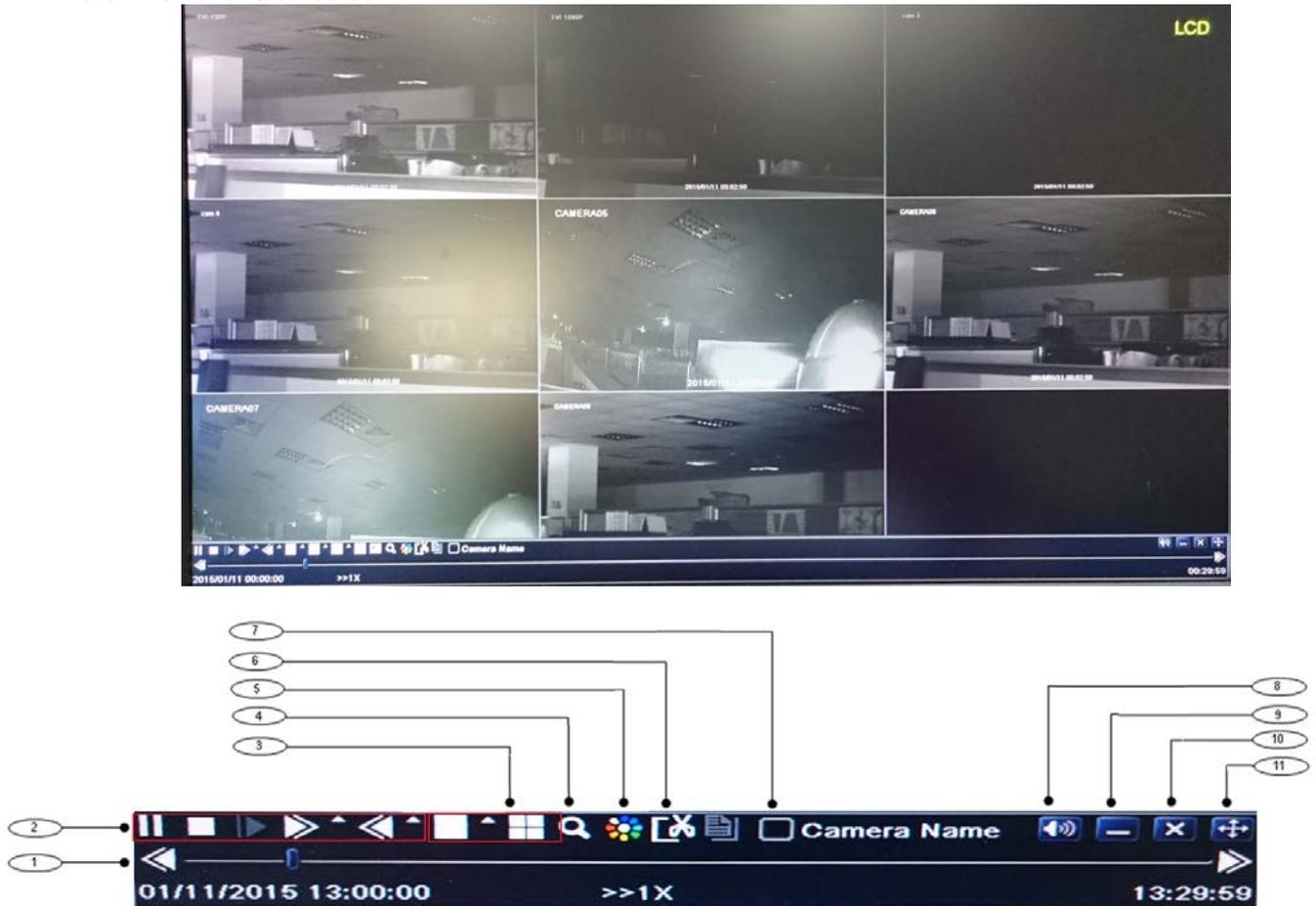


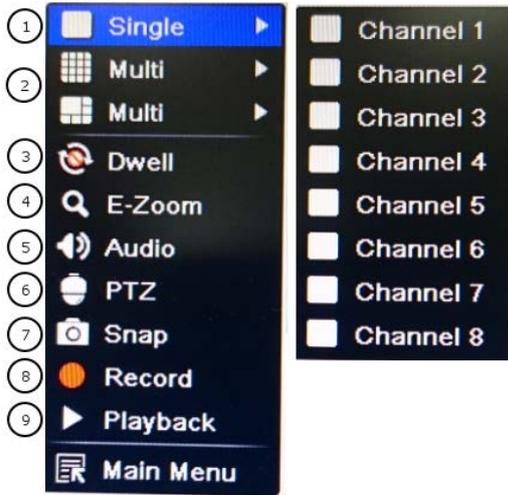
Fig. 2-3 live playback

Item	Function	Description
1	Playback process bar	Last/next segment of record and time process
2	Playback basic function	Play/ Pause / Stop / frame forward / fast forward / fast rewind
3	Display mode	4ch:1/ 4, 8ch、16ch:1/ 4/ 6/ 9/ 1+5/ 1+7,
4	Zoom	Screen digital zoom x2
5	Color	Setup picture color
6	Cut	Enable to select a specific part of the video and back it up on usb drive
7	Camera name	Enable or disable camera name display
8	Volume	Volume mute on/off
9	Reduce	Hide playback tool bar
10		Exit playback mode
11		Move the playback bar in the screen

### 3 Main menu setup guide

Click right mouse or press ESC button on the front panel, the control bar will display on the screen, refer to Fig 3-1:

Full channel switch, camera 1 ~ 5, camera 1 ~ 12, or camera 1~24



1	Single	Full channel
2	Multi	4ch:1/5, 8ch:1/4/9/12, 16ch:1/4/9/16/25
3	E-Zoom	Live/playback digital zoomx2
4	Audio	Audio channel setup and volume
5	PTZ	Into PTZ control mode
6	Record	Manual record
7	Playback	Playback the nearest file
8	Main Menu	Into main OSD
9	Dwell	Channel sequence

Fig. 3-1 main menu toolbar

Click Menu  button, the interface will pop-up as Fig. 3-2; press MENU button on the front panel or operate with remote controller also can display the main menu.

Main OSD



Fig. 3-2 system setup



### 3.1 Basic configuration

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

#### 3.1.1 System

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

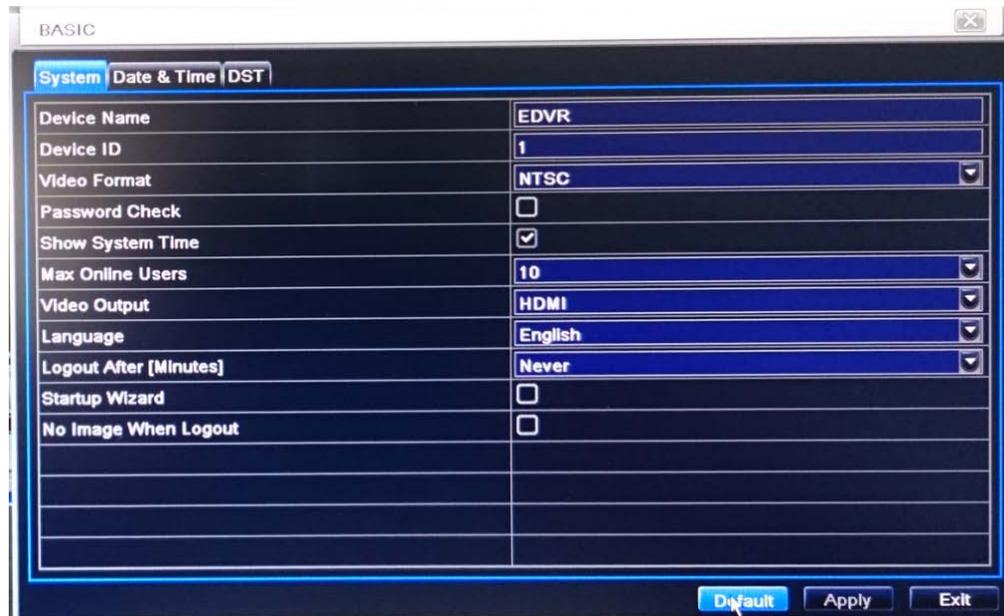


Fig 3-3 basic configuration-basic

Step2: in this interface user can setup the device name, device ID, video format, max network users, VGA resolution and language. 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 time:** display time in live.

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

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

**Language:** setup the menu language.

**Logout after [Minutes]:** defines time to logout the user from the OSD

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

**No Image when Logout:** if this option is tick, when user logout, live picture will be hidden

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

### 3.1.2 Time & date

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

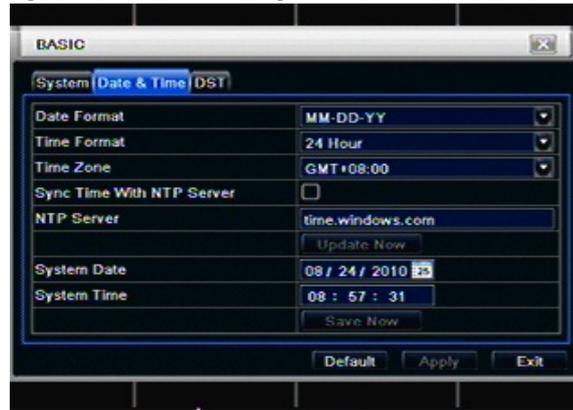


Fig. 3-4 basic configuration-time & date

Step2: set the date format, time format, time zone in this interface; click off “sync time with NTP server” to refresh NTP server date; 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.

### 3.1.3 DST

Step1: enter into system configuration→basic configuration→DST; refer to Fig. 3-5:

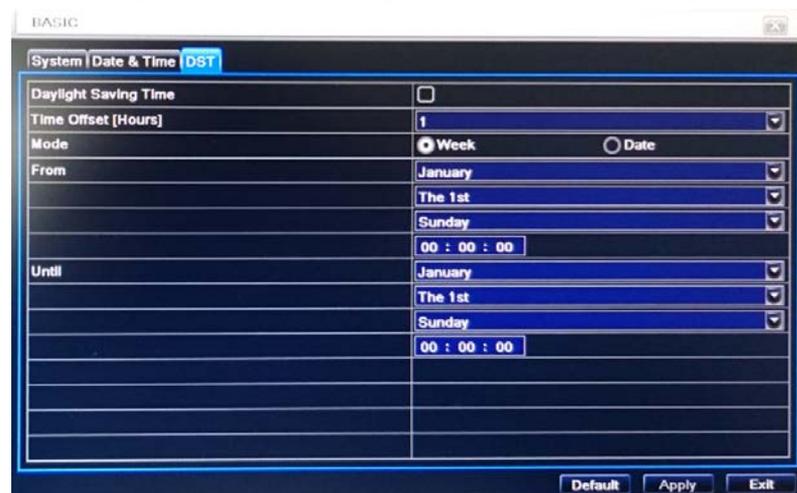


Fig. 3-5 basic configuration-DST

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.

## 3.2 Live configuration

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

### 3.2.1 Live

In this interface, user can setup camera name.

Step1: enter into system configuration→live configuration→live; refer to Fig 3-6:



Fig. 3-6 live configuration→live

### 3.2.2 Main monitor

Step1: enter into system configuration→live configuration→main monitor; refer to Fig 3-8:

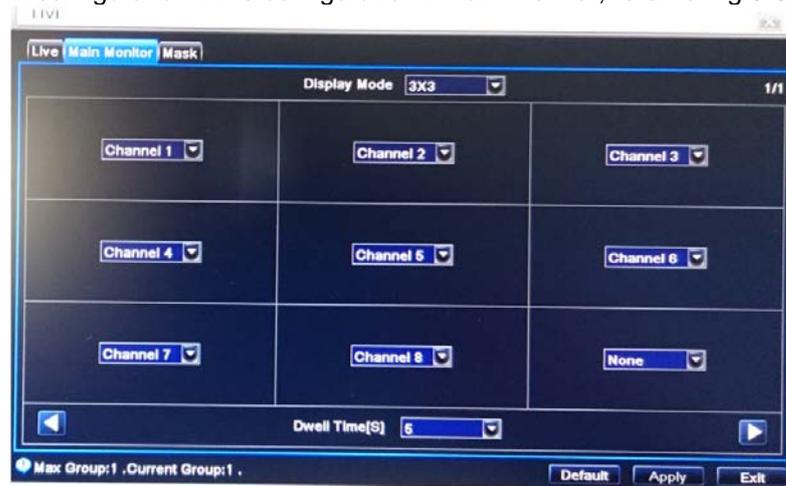


Fig. 3-8 live configuration-main monitor

Step2: select split mode: 1×1、2×2、2×3、3×3、4×4 and 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” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit current interface.

### 3.2.3 Mask

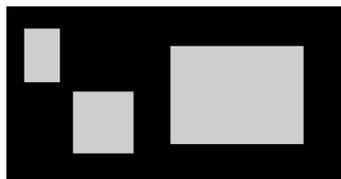
User can setup private mask area on the live image picture, max threes areas



Fig. 3-9 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

Notice: The mask area will not be recorded on DVR. Please use this function carefully.



### 3.3.2 Record stream

Step1: enter into system configuration→record configuration→record bit rate

When you use the TVI Series DVR, as DVR received the signal from camera, DVR will **automatically do the video resolution depending on camera type discrimination.**



**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 stream:

Parameter	Meaning			
	Model	4CH	8CH	16CH
Rate	960H	1-30 ( NTSC ) /1-25(PAL)		
	720P			
	IP 720P			
	1080P	1-15 ( NTSC ) /1-12(PAL)		
	IP 1080P	1-30( NTSC )/1-25(PAL)	1-15 ( NTSC ) /1-12(PAL)	
Resolution	This series supports 960H,720P, 1080P.			
Quality	The higher the value is, the clearer the recorded image is. Six options: lowest, lower, low, medium, higher and highest.			
Encode	VBR and CBR.			
Max bit stream	You shall adjust it subject to the actual network condition. 1536, 1792, 2048, 4096, 5120, 6144, 7168, 8192, 9216, 10240, 12288 kbps			

### 3.3.3 Time

Step1: enter into system configuration→record configuration→ time; refer to Fig 3-11:



Fig. 3-11 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.

### 3.3.4 Stamp

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

Step1: enter into system configuration→ record configuration→ stamp; refer to Fig 3-12:

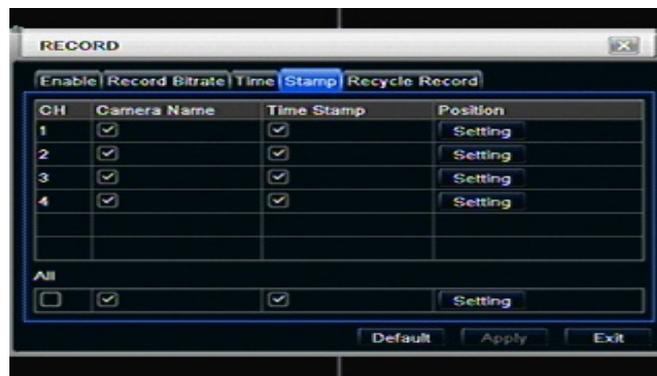
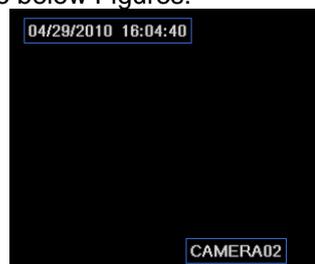


Fig. 3-12 record configuration-stamp

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.

### 3.3.5 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 recording when HDD is full; if disenable this function, it will stop recording when HDD is full.

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

## 3.4 Schedule configuration

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

### 3.4.1 Schedule

The volume 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 3-13:

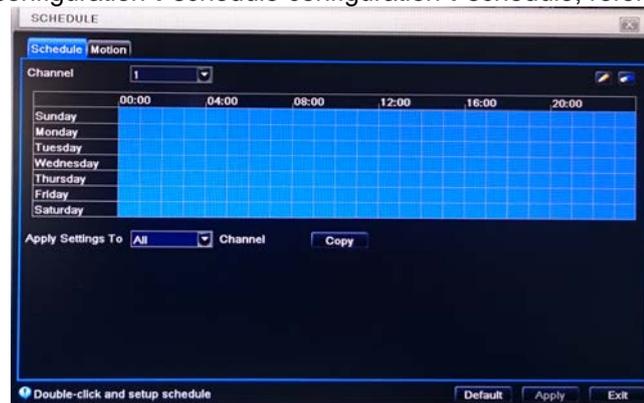


Fig. 3-13 schedule configuration-schedule

Step2: select channel, double-click and a dialog box will pop-up as Fig 3-14, user can edit week schedule:



Fig. 3-14 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.

### 3.4.2 Motion

Step1: enter into system configuration→schedule configuration→motion; refer to Fig 3-15:

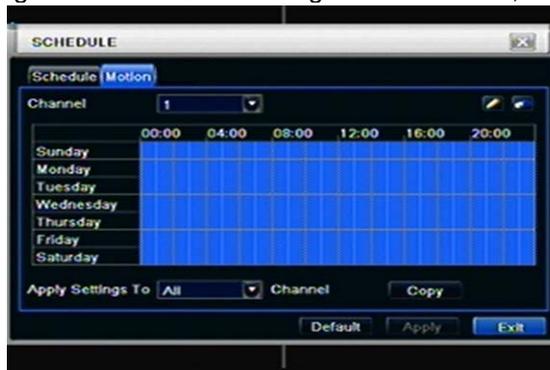


Fig. 3-15 schedule configuration-motion

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.

### 3.5 Alarm configuration

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

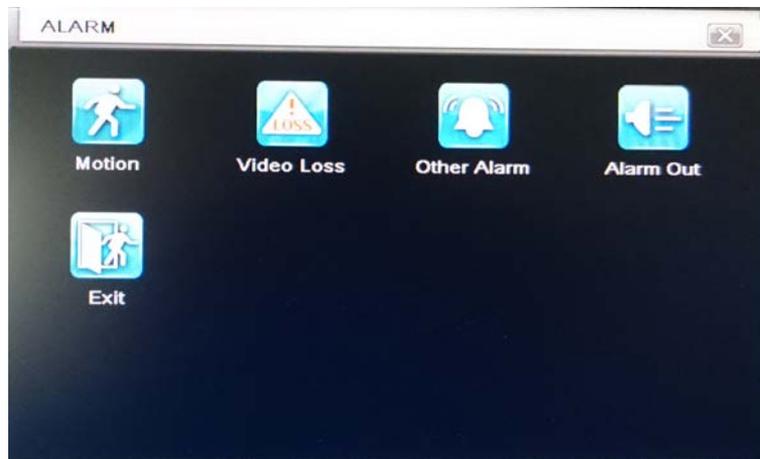


Fig 3-16 alarm configuration

#### 3.5.1 Motion

Motion includes two sub menus: motion and schedule.

① Motion

Step1: enter into system configuration→alarm configuration→motion; refer to Fig 3-17:



Fig 3-17 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 dialog box will pop-up:

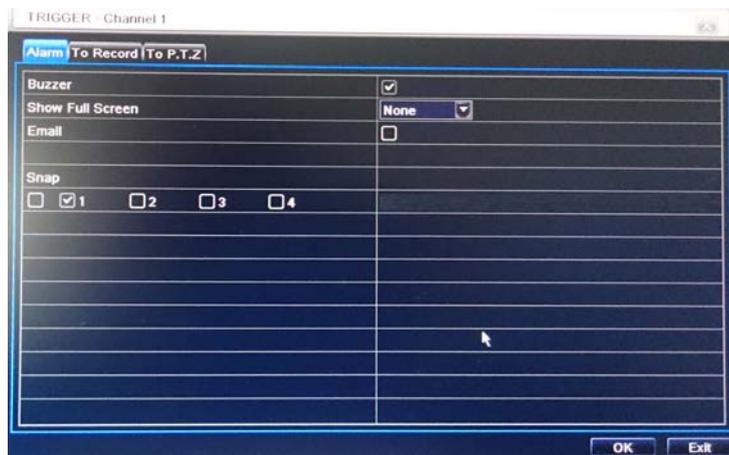


Fig 3-18 Trigger (motion alarm)

Step3: the setup steps of motion trigger.

- (1) Enable the buzzer if user need this function.
  - (2) Choose the channel which when event happened to show full screen,
  - (3) Choose enable transfer e-mail function or not.  
(Before enable this function, user need to set-up E-mail transit data. please reference 3.6.3)
  - (4) Choose the snap shot channel.
- After complete the configuration, click ok to finish.

Step4: click Area button, a dialog box will pop-up as Fig 3-19:

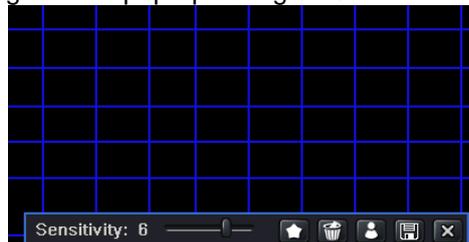
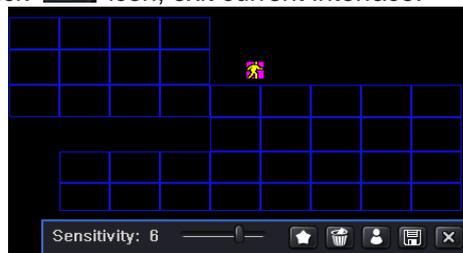


Fig 3-19 motion-area

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 3-20:



Fig 3-20 alarm configuration-schedule

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

### 3.5.2 Video loss

Step1: enter into system configuration→alarm configuration→video loss; refer to Fig 3-21:



Fig 3-21 alarm configuration-video loss

Step2: Setup steps of video loss trigger.

- (1) Enable the buzzer if user need this function.
  - (2) Choose the channel which when event happened to show full screen,
  - (3) Choose enable transfer e-mail function or not.
- (Before enable this function, user need to set-up E-mail transit data. please reference 3.6.3)
- (4) Choose the snap shot channel.

After complete the configuration, click ok to finish.

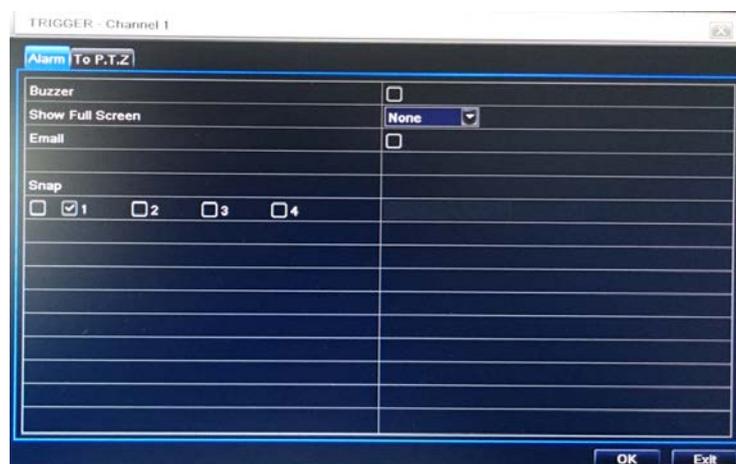


Fig 3-22 Trigger (video loss)

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.

### 3.5.3 Other alarm



Fig 3-23 other alarm

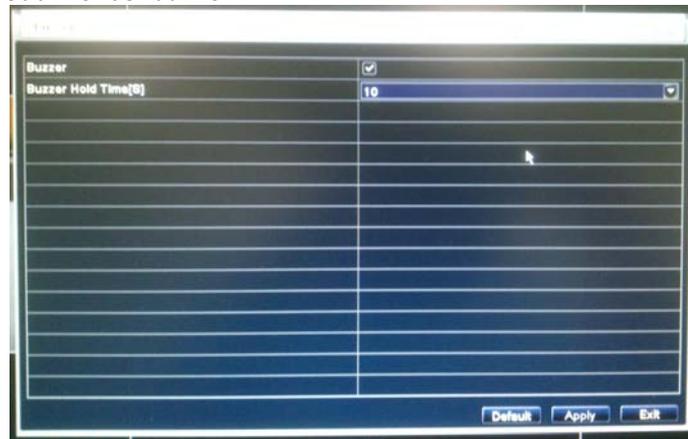
Step1: enter into system configuration→other alarm; refer to Fig 3-23:

Step2: 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.

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

### 3.5.4 Alarm out

Alarm out includes one sub menus: buzzer



#### ① Buzzer

Step1: enter into system configuration→buzzer; (if here sets is off, all event without buzzer)

Step2: tick off Buzzer, set buzzer alarm hold time

## 3.6 Network configuration

Network configuration includes six submenus: Network, Sub Stream, Email, Server, NAT and Other Settings. Network settings must be configured if DVR is used for monitoring over network.

### 3.6.1 Network

Step1: enter into system configuration→network configuration→network; refer to Fig 3-24:

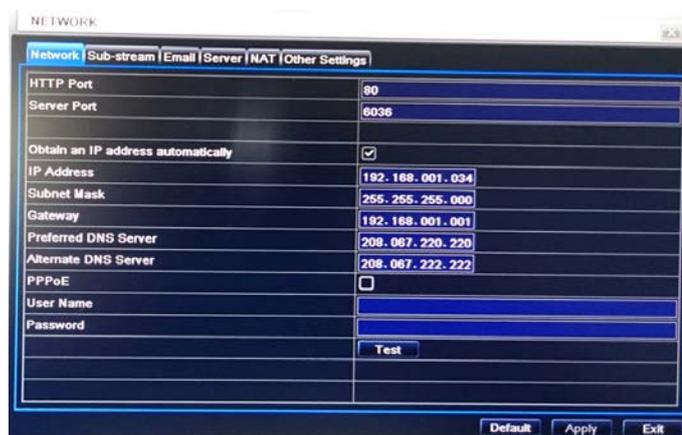


Fig 3-24 network configuration-network

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

There are 3 different types to connect internet, please select an appropriate type to fit your network environment.

1. STATIC (FIXED) IP: Input IP address, subnet mask, gateway and DNS server manually.
2. DHCP : Check the "Obtain IP address automatically", the device will acquire IP address, subnet mask, gateway and DNS service.
3. PPPOE : input the user name and password from ISP provider.

No matter which type you use, please click "Test" before you click "Apply" to make the setting work.

### 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
<b>DDNS server</b>	
DDNS server	Website provided by dynamic domain name supplier. The optional: <a href="http://www.meibu.com">www.meibu.com</a> , <a href="http://www.dyndns.com">www.dyndns.com</a>
User name	User name for log in the website of domain name supplier
Password	Password for log in the website of domain name supplier

### 3.6.2 Network stream

Step1: enter into system configuration→network configuration→sub stream; refer to Fig 3-25:  
8CH



Fig 3-25 network configuration-sub stream

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

Step3: 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 network stream:

Parameter	Meaning		
	Signal	TVI / 960H	IP
<b>FPS</b>	4CH、8CH: 1-30 ( NTSC ) /1-25(PAL) 16CH: 1-15 ( NTSC ) /1-12(PAL)		1-30 ( NTSC ) /1-25(PAL)
<b>Resolution</b>	CIF		CIF、D1
<b>Quality</b>	The quality of the clients' image. The higher the value is, the clearer the record image. Six options: lowest, lower, low, medium, higher and highest.		
<b>Encode</b>	VBR and CBR.		
<b>Max bit rate</b>	Range from: 32~768 kbps		CIF Range from: 32~512 kbps D1 Range from: 32~2560 kbps

### 3.6.3 Email

Step1: enter into system configuration→network configuration→email; refer to Fig 3-26:

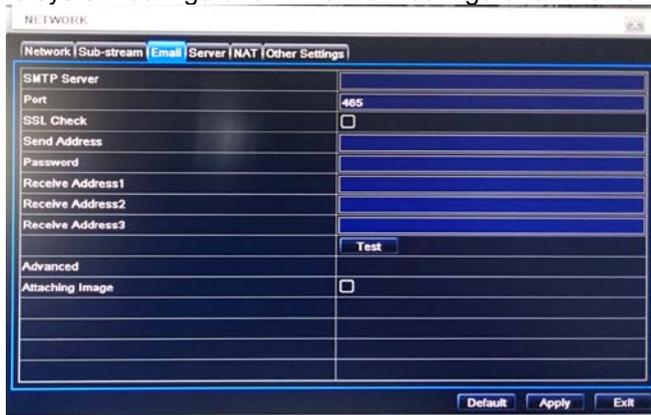


Fig 3-26 network configuration-email

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

**If your SMTP server supports the secure connection (SSL), like Gmail, please set the “Port” to 465 and check “SSL Check”**

**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 valid 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.

**“Strongly recommend to use Google mail (gmail)”**

For Example:

SMTP Server: smtp.gmail.com

Port: 465

SSL Check: V

Send Address: alan@gmail.com

Receive Address1: test@yahoo.com

### 3.6.4 Server

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

Step1: In the server interface, select “Enable” as shown in the Fig 3-27.

Step2: Check the IP address and port of the transfer media server in the NVMS. The default server port for auto report is 2009

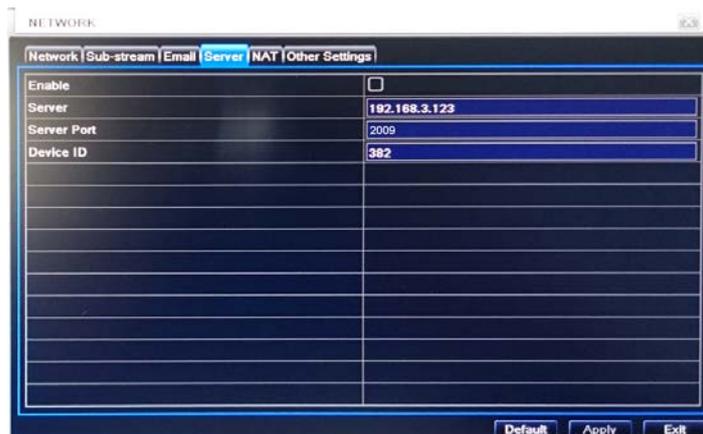


Fig 3-27 network configuration-Server

Step3: Enable the auto report in the NVMS when adding a new device. Then input the remaining information of the device in the NVMS and self-define a device ID.

Step4: Input the above-mentioned server IP, server port and device ID in the server interface. Then click “Apply” button to save the setting. Now, the CMS system will automatically connect this device.

### 3.6.5 NAT (P2P Internet penetrate function)

This function is used for connecting the device to mobile phone (SuperlivePro program), or browse from website. (support IE、Chrome and Firefox browser)

Step1: Go to Menu→Setup→Network→NAT interface. Refer to Fig 3-28.

Step2: Enable NAT.

※ (The NAT Server default is www.autonat.com and Port number is 8989, no need to modify.)

Step3: Click "Apply" to save the settings.

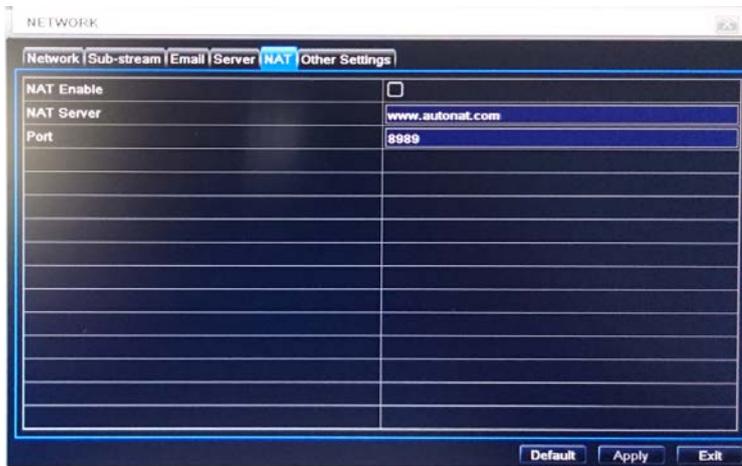
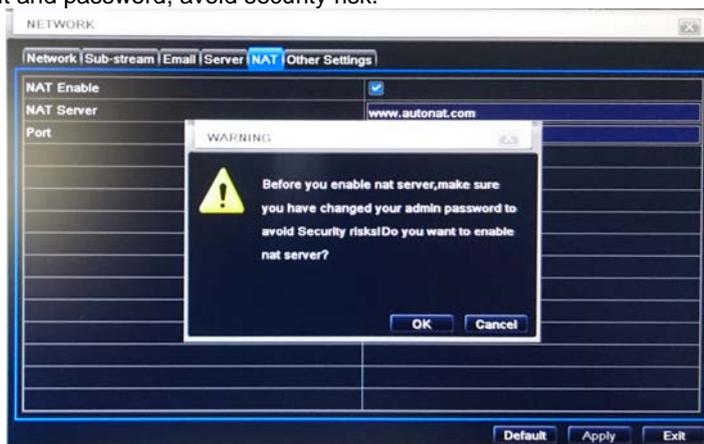


Fig 3-28 network configuration-NAT

※ When you enable the function, there will pop-up the following information, remind you modify the account and password, avoid security risk.



※ How to use this function, please reference the Appendix D part setting step.

### 3.6.6 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 effectively of relevant information.

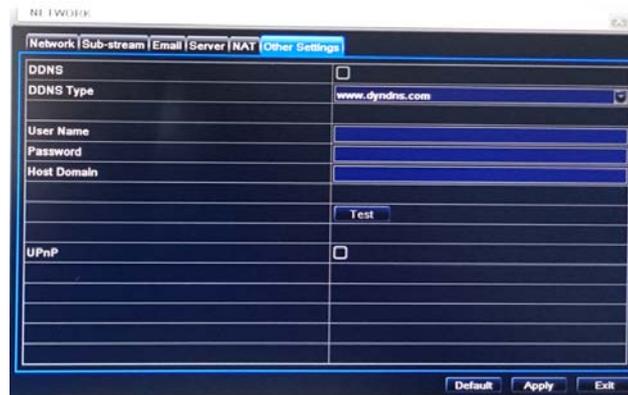


Fig 3-29 network configuration-other settings

STEP2: click “default” button to resort default setting; click “apply” button to save the setting; click “exit” button to exit 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.

\*Please reference Appendix to setup DDNS function.

### 3.7 User management configuration

Step1: enter into system configuration→user management configuration; refer to Fig 3-30:



Fig 3-30 user management configuration

Step2: click Add button, a dialog box will pop-up as Fig 3-31:



Fig 3-31 add-general

- ① 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.

- ② Authority:
  - a) Admin: Admin have full control of DVR. DVR could have only one admin account.
  - b) Advance: Besides "firmware upgrade", "reset factory default", "shut down" and "change other user's password", advance account could control DVR like an admin account.
  - c) Normal: Normal account can only do "live view", "playback", "search", "backup", "log off", "view DVR information", and "change his own password".

### 3.8 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 3-32:



Fig 3-32 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 network stream:

Parameter	Meaning
Address	The address of the PTZ device
Baud rate	Baud rate of the PTZ device. Range form: 110、 300、 600、 1200、 2400、 4800、 9600、 19200、 34800、 57600、 115200、 230400、 460800、 921600.
Protocol	Communication protocol of the PTZ device. Range from: NULL、 PELCOP、 PELCOD 、 LILIN、 MINKING、 NEON、 STAR、 VIDO、 DSCP、 VISCA、 SAMSUNG、 RM110、 HY

#### ③ Advance

Step1: enter into system configuration→ P.T.Z configuration→advance; refer to Fig 3-33:

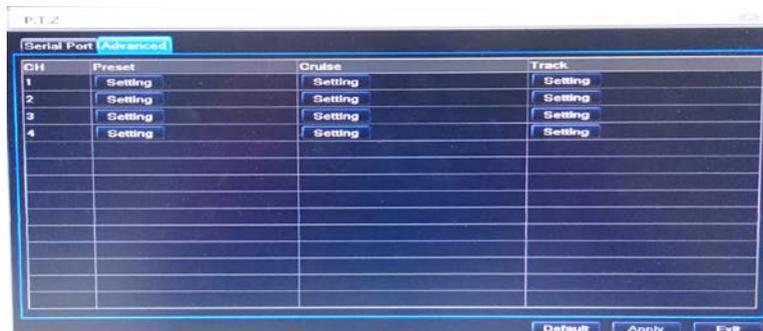


Fig 3-33 P.T.Z configuration-advance

Step2: in the Advance interface, click preset "Setting" button, a dialog box will pop-up as Fig 3-34:



Fig 3-34 advance-preset setting

a. in the preset set interface, click Setting button, a dialog will pop-up as Fig 3-35:



Fig 3-35 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, set the preset name. 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 3-36:



Fig 3-36 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 dialog box will pop-up as Fig 3-37:



Fig 3-37 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 "Set" button, a dialog box will pop-up as Fig 3-38:



Fig 3-38 track set

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.

## 4 Record search & playback and backup

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

### 4.1 Time search

Step1: enter into Search configuration→time search; refer to Fig 4-1:



Fig 4-1 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

※ Only support same system to run recording data playback.

**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.**

### 4.2 Event search

Step1: enter into Search configuration→event search; refer to Fig 4-2:



Fig 4-2 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.**

### 4.3 File manager

Step1: enter into Search configuration→file manager; refer to Fig 4-3:

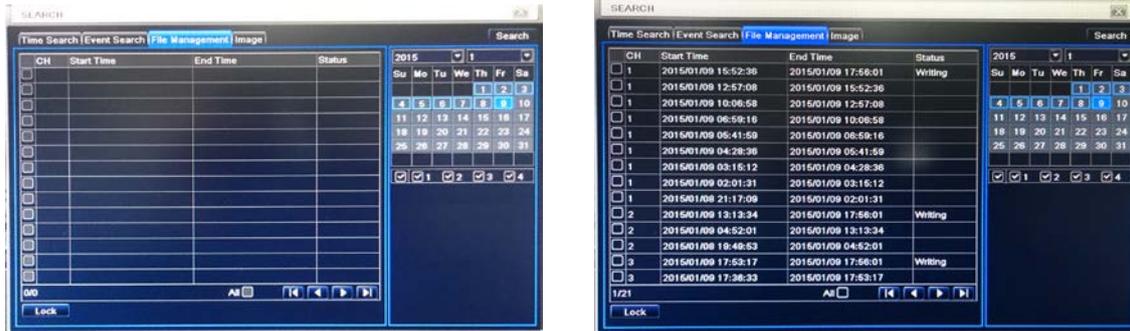


Fig 4-3 Search configuration-file manager

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

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

Step4: double click an unlocked item to playback.

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

### 4.4 Image

Step1: enter into Search configuration→image; refer to Fig 4-4:



Fig 4-4 Search configuration-image

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

③ Lock: checked a file, click Lock button to lock this file, after that, that file will not be deleted or covered.

④ Unlock: checked a locked file, click Lock button to unlock this file

⑤ Delete: checked an unlocked file, click Delete button to delete this file.

Step3: Insert a USB drive to save (or save all) image data.

### 4.5 Backup

This unit supports backup by external SATA DVD Writer and USB Flash, 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 4-4:



Fig 4-4 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 4-5:

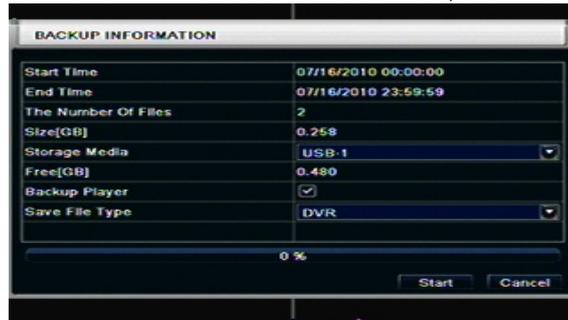


Fig 4-5 backup information

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

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

## 5 Manage DVR

### 5.1 Check system information

Check system information includes five submenus: system, event, log, network and online user. refer to Fig 5-1:

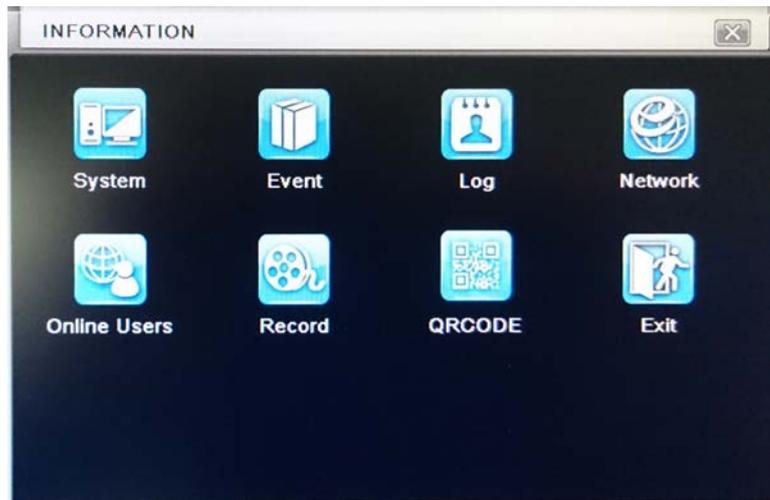


Fig 5-1 Information

#### 5.1.1 System information

In this interface, user can check the hardware version, MCU version, kernel version, device ID, etc. refer to Fig 5-2:



Fig 5-2 system information

#### 5.1.2 Event information

In this interface, user can check record events according to set date; refer to Fig 5-3:

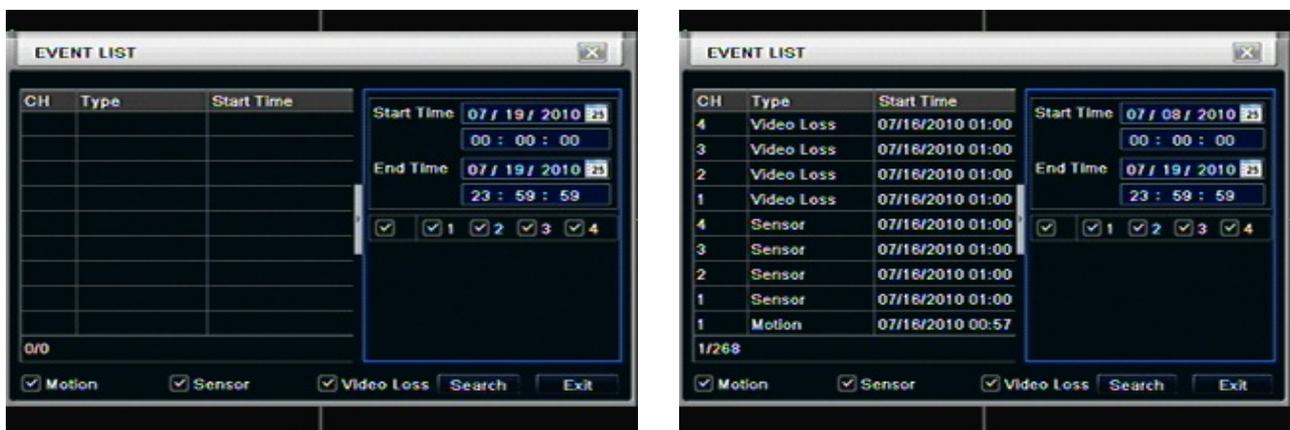


Fig 5-3 event information

### 5.1.3 Log information

In this interface, user can check relevant log information according to set date; refer to Fig 5-4:



Fig 5-4 log information

### 5.1.4 Network information

In this interface, user can check relevant parameters of network; refer to Fig 5-5:



Fig 5-5 network information

### 5.1.5 Online information

In this interface, user can check the details of the current connection of online users; refer to Fig 5-6:



Fig 5-6 online information

### 5.1.6 Record

In this interface, user can check the current recording mode; refer to Fig 5-7:

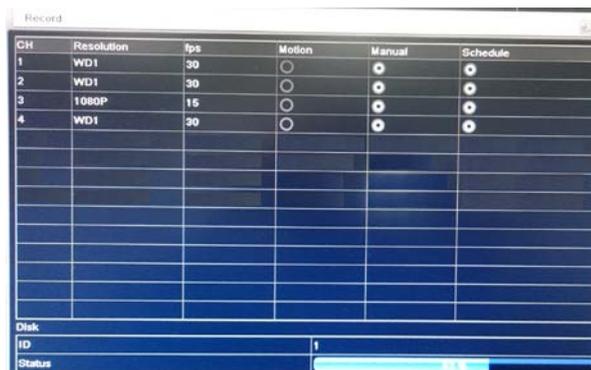


Fig 5-7 Record information

### 5.1.7 QR CODE

In this interface, user can quick link to the DVR ;refer to Fig 5-8:



Fig 5-8 QR CODE

**Note:** Reference to the NAT setting description.

### 5.1.8 Disk manager

Step1: enter into disk manager interface; refer to Fig 5-8:



Fig 5-9 disk manager

**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 star format.

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

### 5.1.9 Upgrade

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



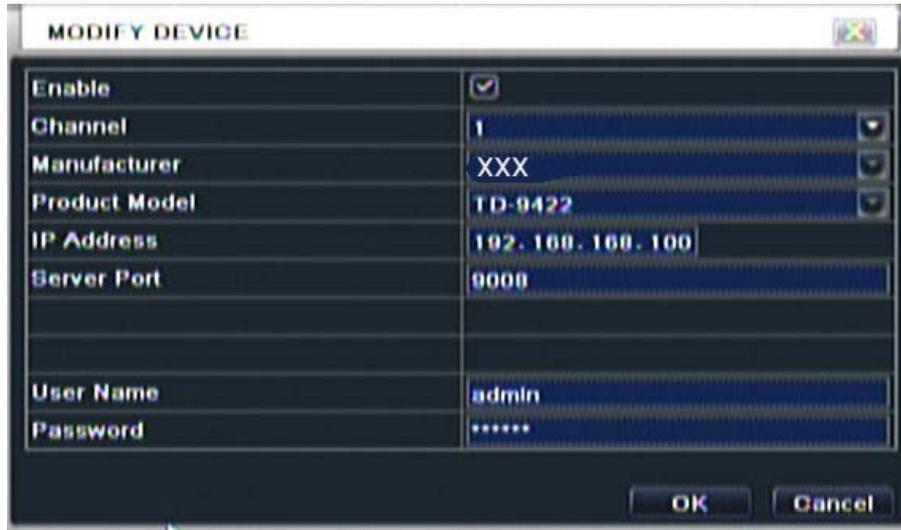


Fig 5-12 Add Device

**Note:** If IP cameras and DVR are in the same network, their IP address must be in the same network segment. For example: If the IP address of DVR is 192.168.006.067, the IP address of IP camera must be 192.168.006.XXX. If the NVR is connected through PPPOE, the IP camera can be connect through PPPOE. If the LAN IP address is used in the IP camera, you shall forward the IP address and port of the device in the router, otherwise, the DVR cannot connect this IP camera.

#### 5.1.11 Log off

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 rellogin.

#### 5.1.12 Shut down

**Note:** DVR going to power off

## 6 Remote Surveillance

### 6.1 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, without any client software installed. It supports Win 7, XP and Vista.

#### 6.1.1 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 6-1 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 `http://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.

#### 6.1.2 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.meibu.com](http://www.meibu.com), [www.dyndns.com](http://www.dyndns.com), [www.no-ip.com](http://www.no-ip.com) and [www.dvrddns.com](http://www.dvrddns.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 Q7.

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 STEP4-7 of the connection way above.

### 6.2 The remote live preview interface as below:

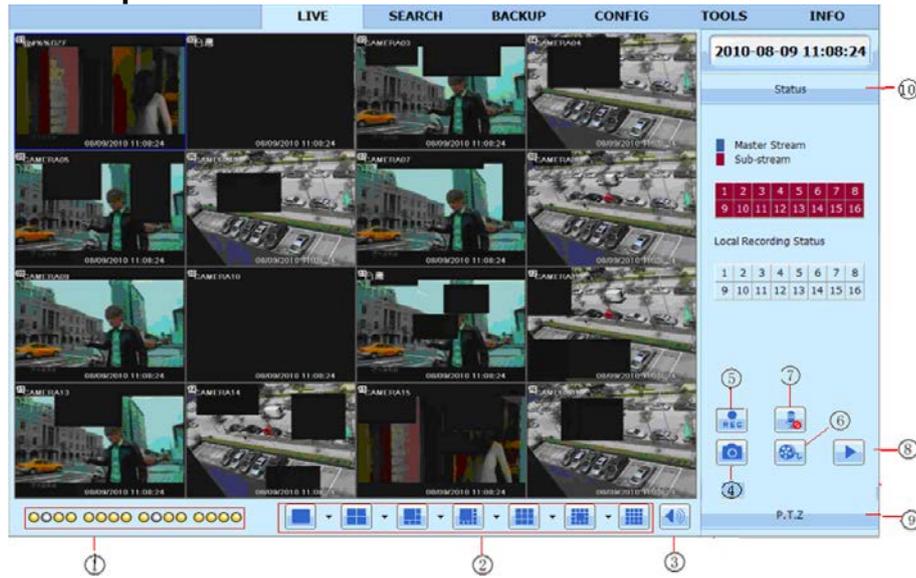


Fig 6-2 Remote live preview interface

**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	PTZ control
⑩	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 6-3 Channel select dialog

Take 8-channel DVR for example: user can tick off channels form 1-ch to 16-ch at random to display the live pictures, 8 channels can be selected at most. Then click OK button to confirm the setting.

**Snap pictures**

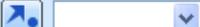
Click "Snap"  icon, the system will automatically capture pictures and save those pictures in the computer.

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

## 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.
	Go to the Preset
	Select and do auto cruise
	Track
	Auto scan
	Wiper
	Lamp

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

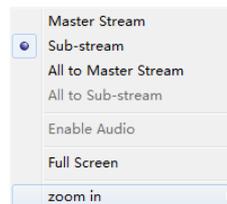


Fig 6-4 right key sub menu

**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; second 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 disenable audio

**Full screen:** the live preview picture will display with full screen, the tool bar will be hided; 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.

## 6.3 Remote playback & backup

### 6.3.1 Remote playback

Click  button to enter into record playback interface, refer to Fig 6-5:

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.

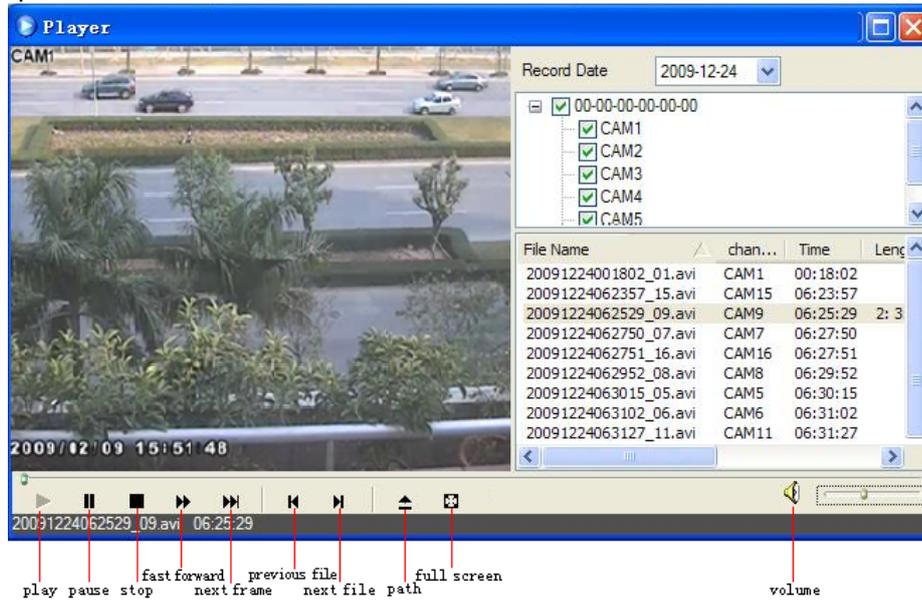


Fig 6-5 Play record file interface

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

#### By Time Search:

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

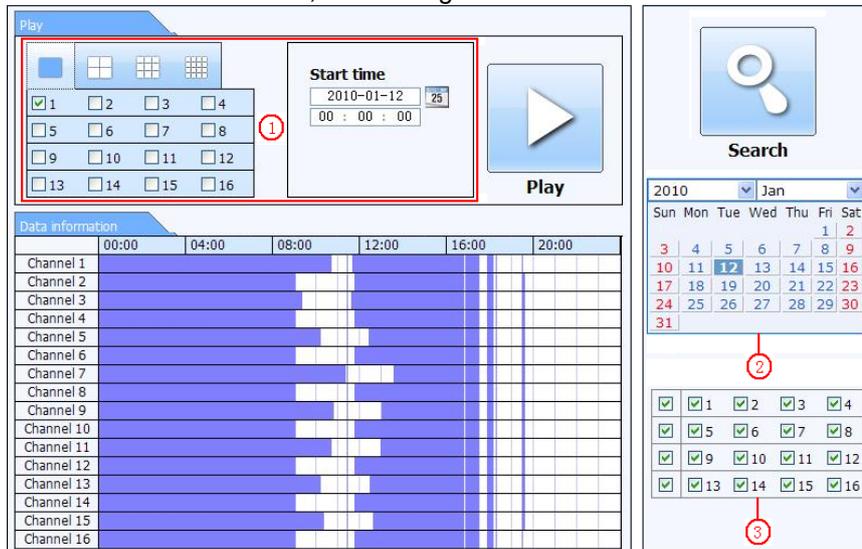


Fig 6-6 time search interface

**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 6-7:



Fig 6-7 Time search playback

**By Event Search:**

**Step1:** Enter into Search→event search; refer to Fig 6-8:

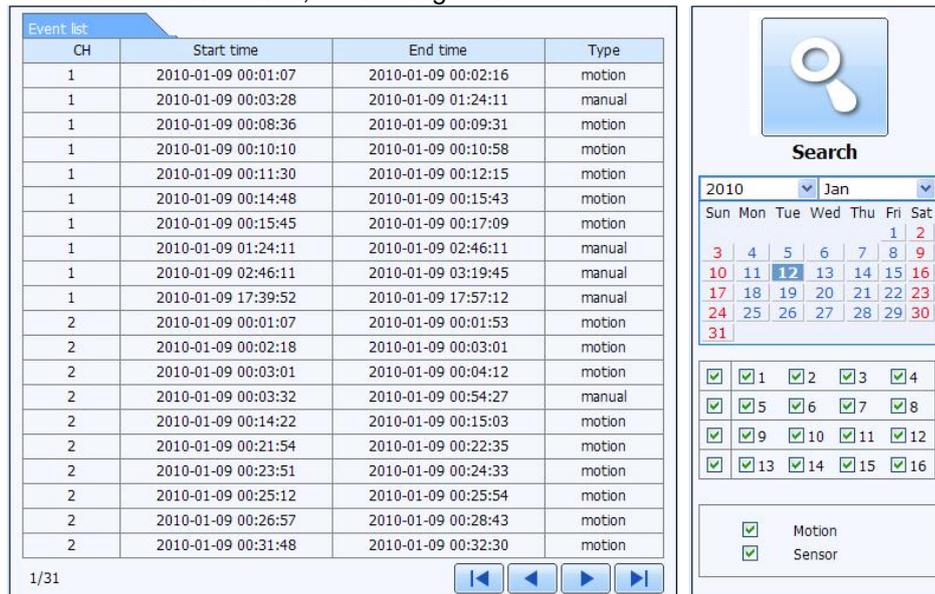


Fig 6-8 event search interface

**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 6-9:

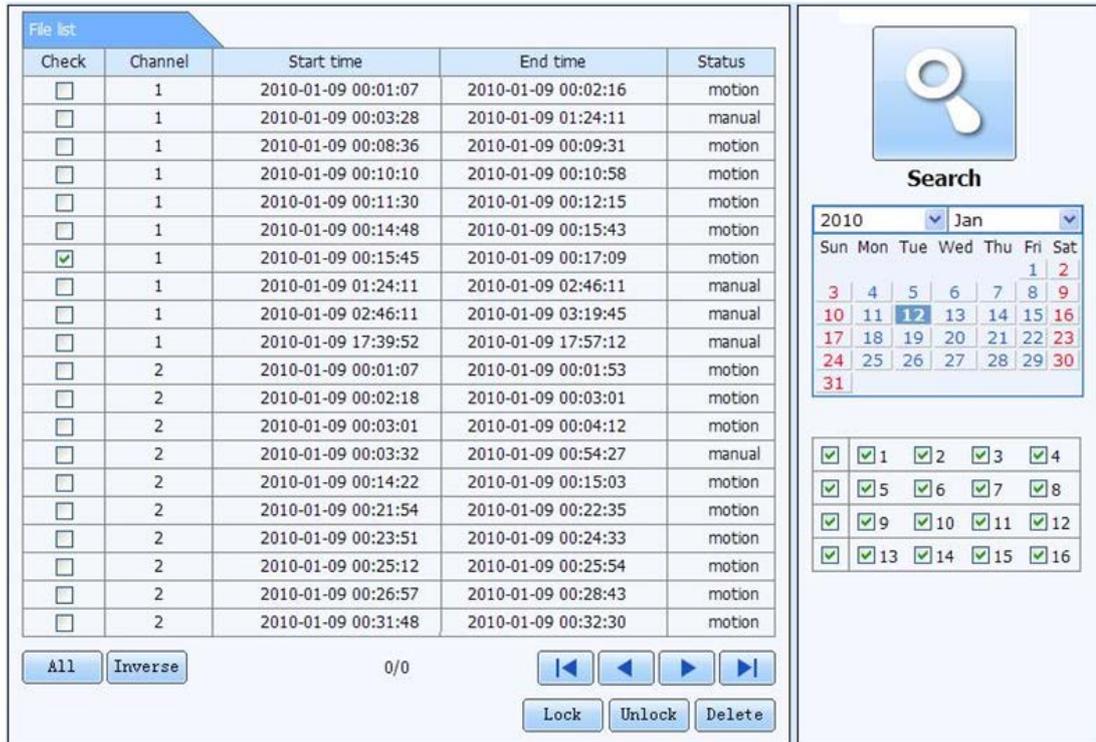


Fig 6-9 file management interface

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.

### 6.3.2 Remote backup

Click Backup button to enter into backup interface, refers to Fig 6-10:

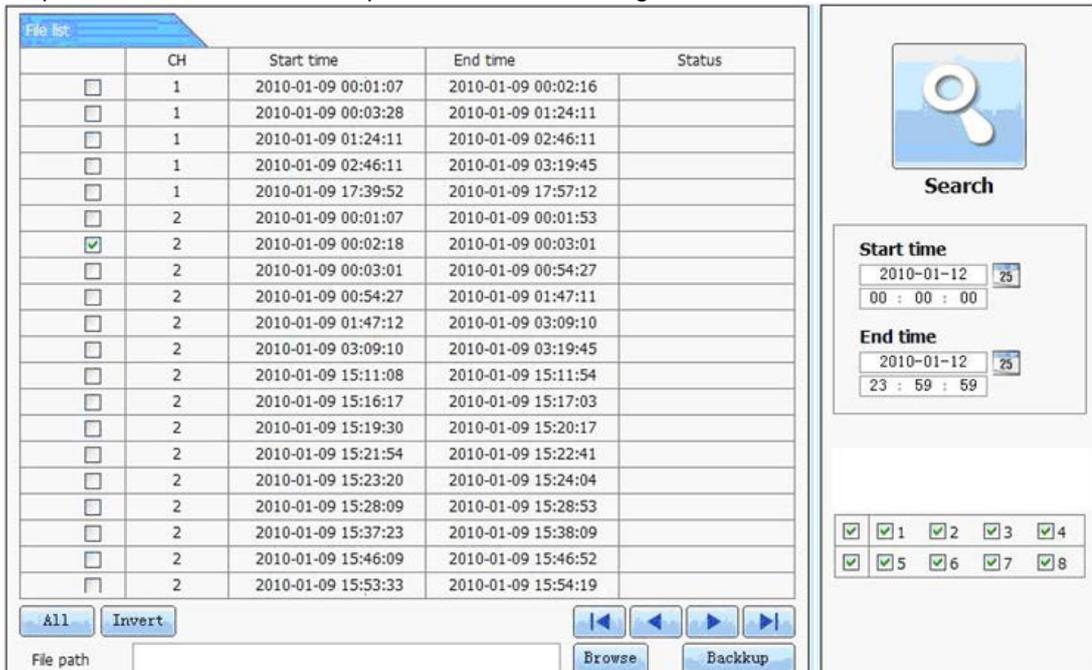


Fig 6-10 remote backup interface

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.

## 6.4 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 6-11:

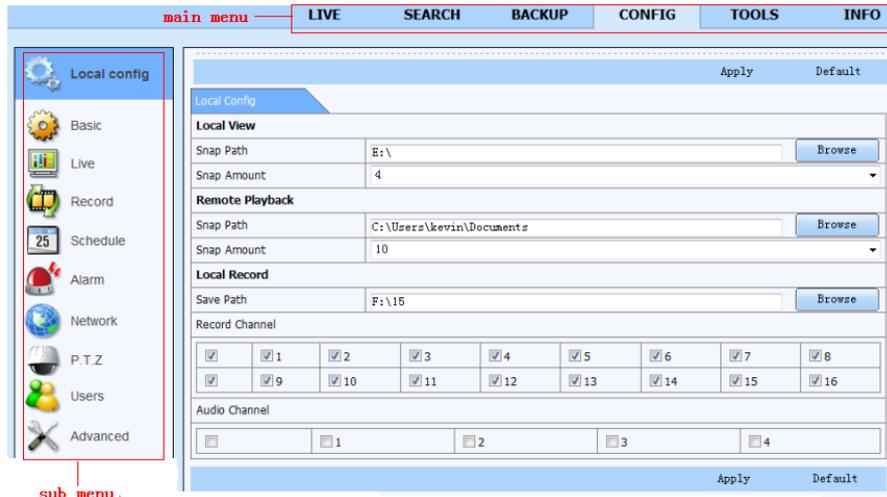


Fig 6-11 remote menu setup

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.

## 6.5 Remote Management

### Remote Information Search

The system will automatically record the working condition and operation process during the period of work. User can view information, such as username, IP address and so on. Enter into INFO→Log, user can set the start time to view the log record as follows:

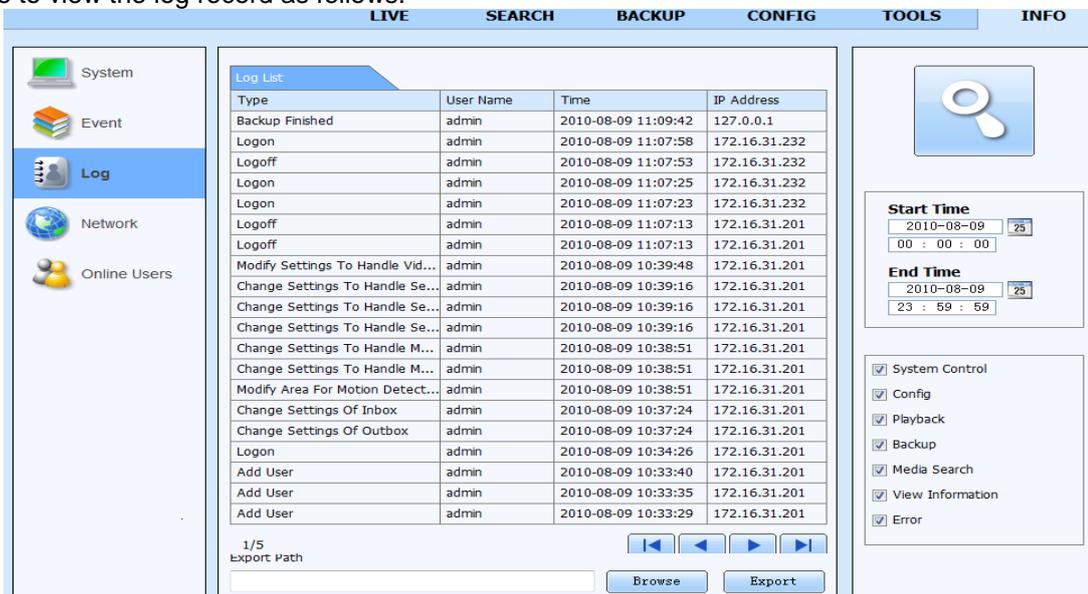


Fig 6-12 Remote information search

## 7 Mobile Surveillance

This DVR supports mobile surveillance on Iphone and android OS device, this section describes the installation of the program via the Smartphone

### Installation procedure on Iphone device

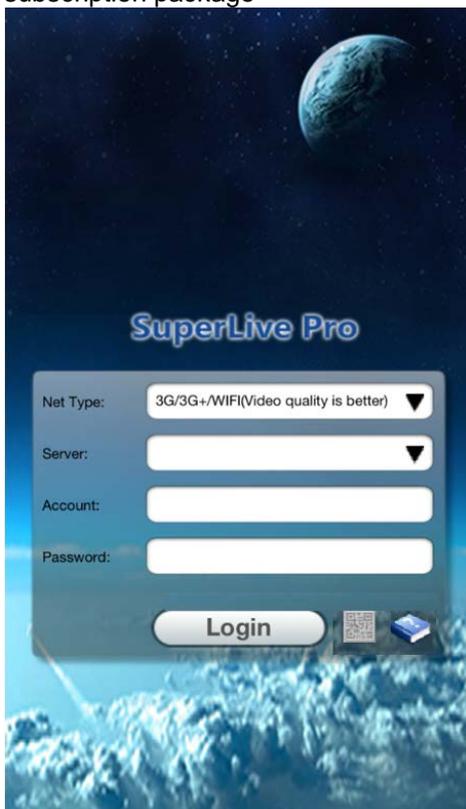
To connect to DVR with your Iphone, user need to go ITunes Store and search for the program called SUPERLIVEPRO



Install the program as usual, in some cases it will ask you your iTunes username and password. Then launch the application on your Iphone



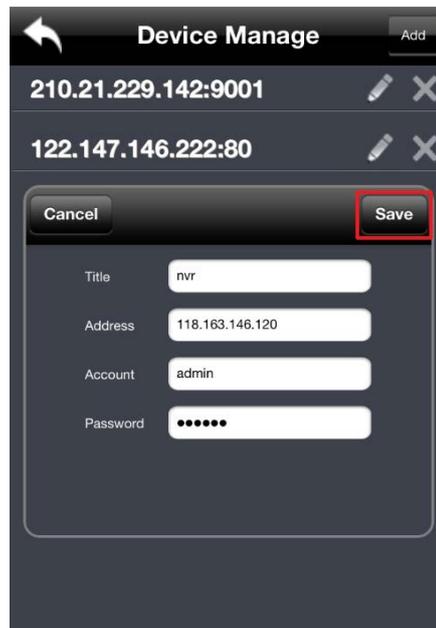
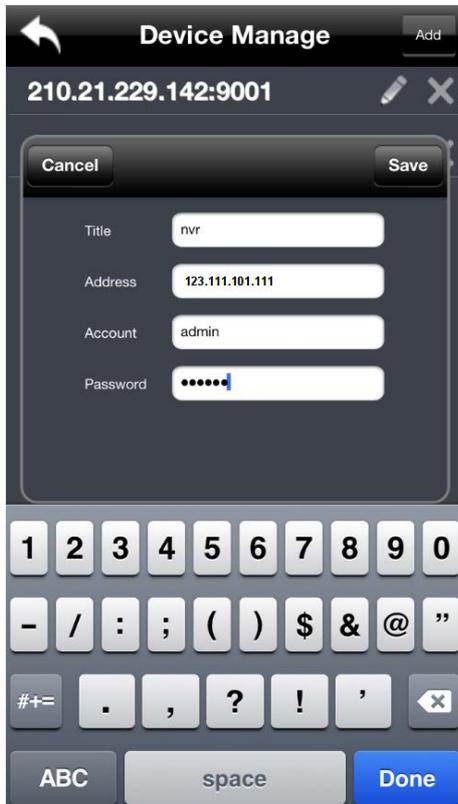
This the login screen, net type you can choose between 3G+WIFI or WIFI depending on your internet subscription package



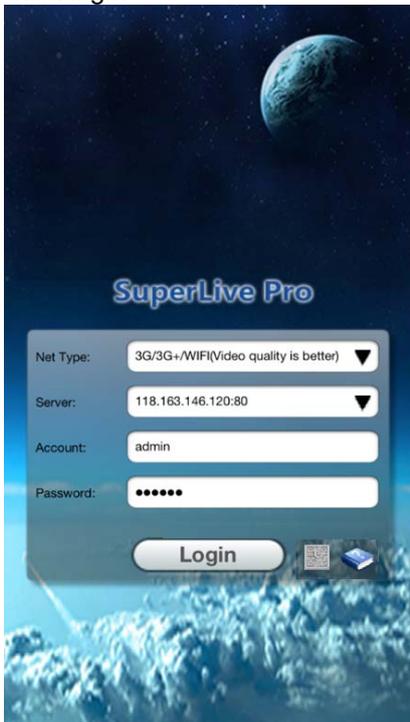
To add a DVR click on the bottom arrow next to Server blank



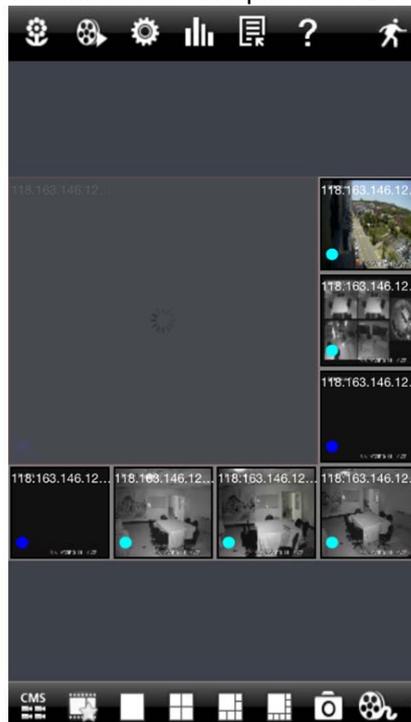
Key in the device title, address, username and password, then click on SAVE to save in the device manage list



Click login



You will see the live picture of DVR



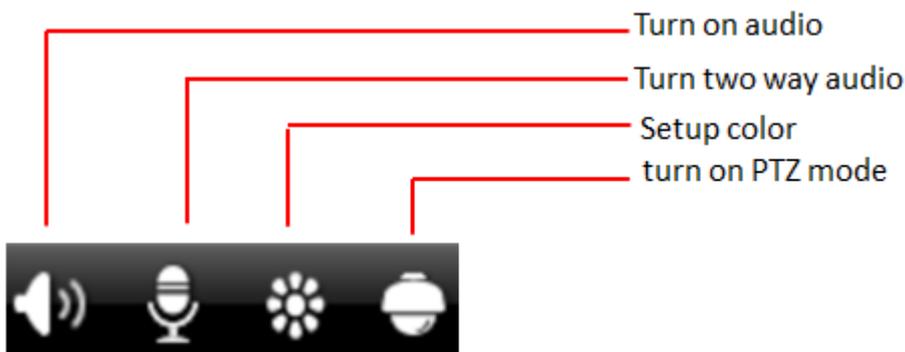
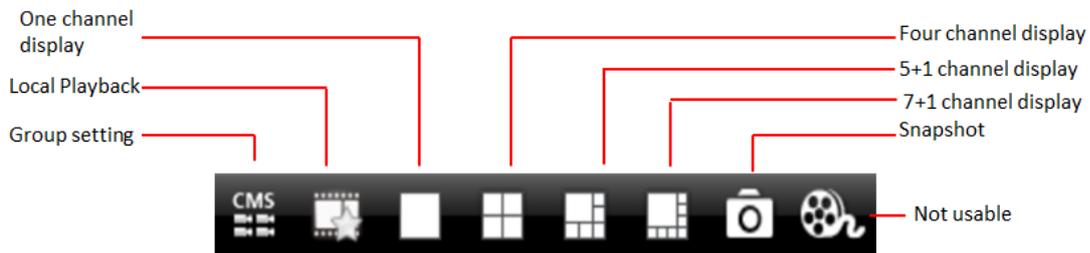
### States light description

-  Motion record, sensor record, manual record
-  Sensor alarm
-  Video Loss
-  Schedule record
-  Motion Alarm
-  Others

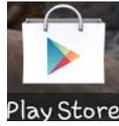
### Upper tool description



### Bottom tool description



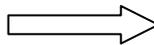
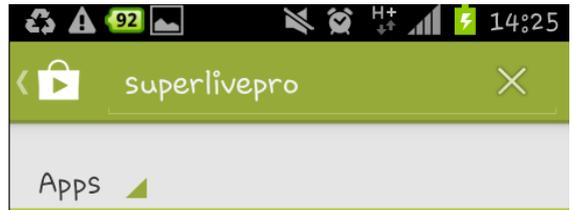
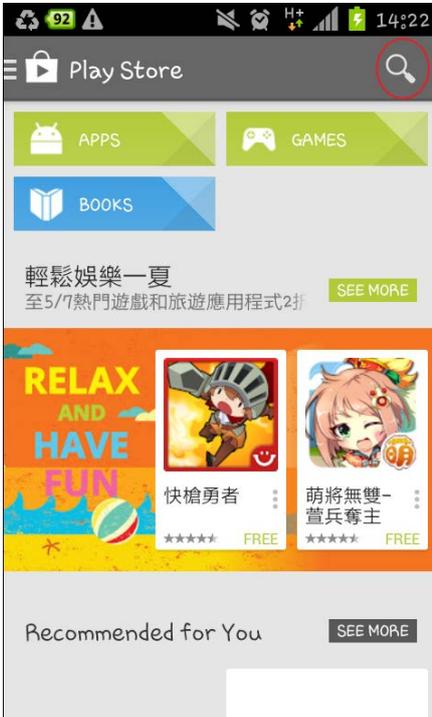
# Installation procedure on Android OS Smartphone



On your Smartphone click on the Google play store icon

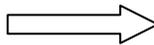
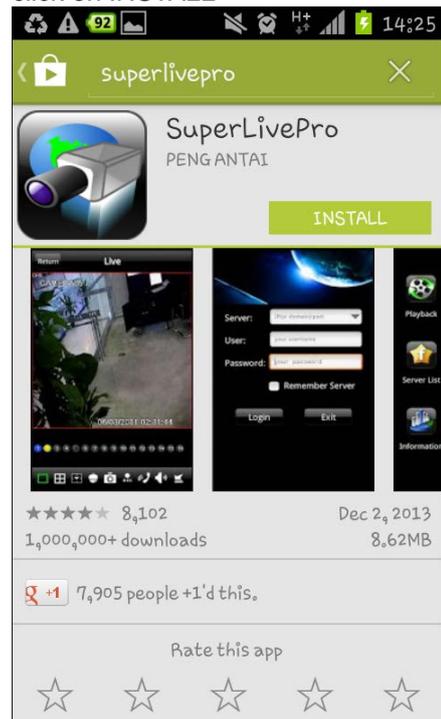
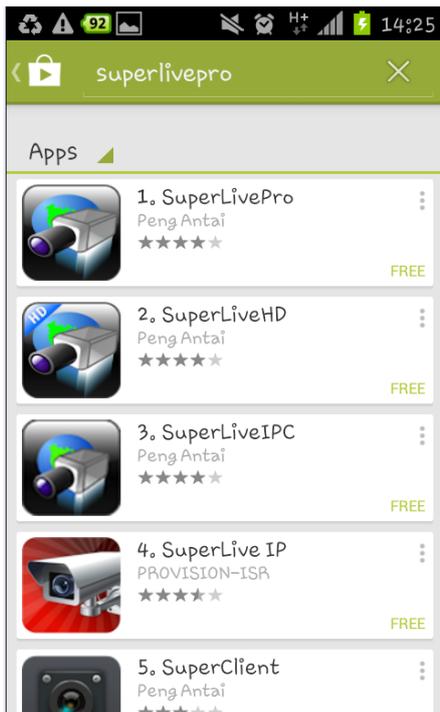
Then press on search icon on right

Type SUPERLIVEPRO with your virtual keyboard and press enter

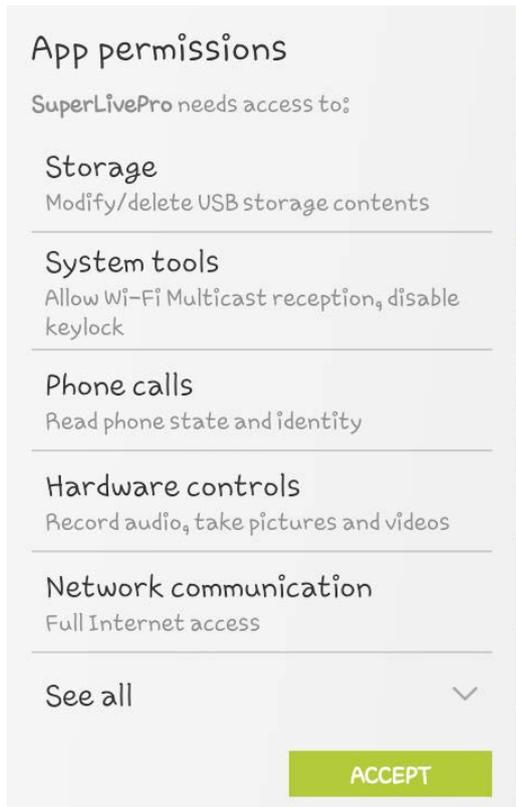


The search result will show the available applications

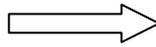
Click on SUPERLIVEPRO, a brief description of the program will be shown, click on INSTALL



Click on ACCEPT & DOWNLOAD

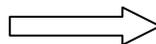
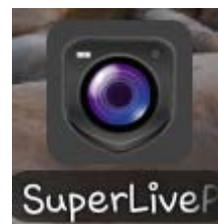


The program is being downloaded on your smartphone, please wait



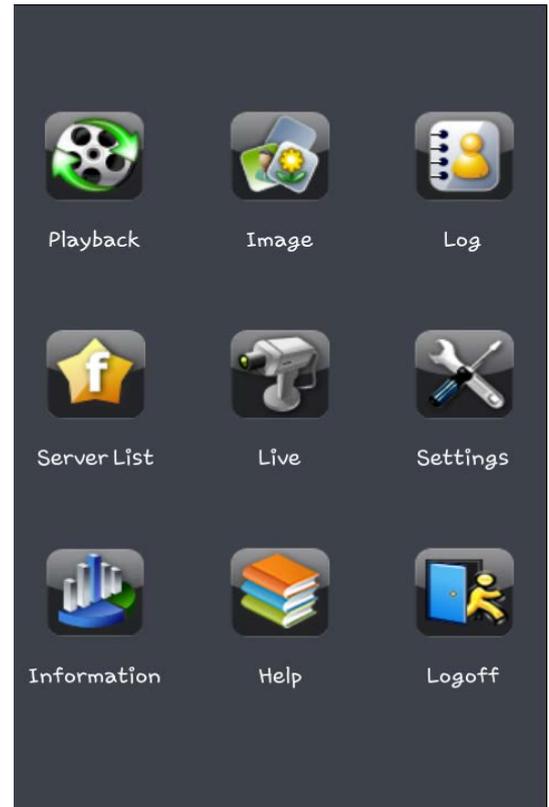
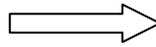
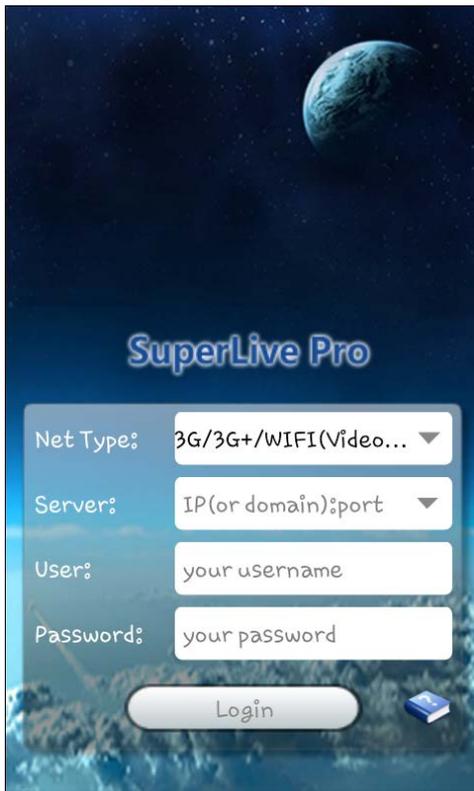
The installation is finished, click Open to launch the program,

After installation finished, click this icon to open and launch into the program.



Key your DVR IP, the username and password, if you want the program to keep in memory select REMEMBER SERVER, then click on LOGIN

You are connected to the DVR, you can see all the functions of the program



Main interface description

Item	Description
Playback	Video file playback
Image	Server photo browse
Log	Software log
Server list	View and edit server list
Live	View camera online
Settings	Software configure
Information	Server and software information
Help	Help Information about software and FAQ
Logoff	Log off from current server

Live picture interface



Icon	Description
	Central management system
	To select favorite channels
	One screen
	Four screen
	Six screen
	Eight screen
	PTZ control
	Capture
	Record
	Talk
	Channel audio
	Hide SuperLivePro

## Appendix A FAQ

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

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

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

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

### Q2. The indicator of the DVR lights, but no output. Why?

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

### Q3. Why are no images displayed on parts or all of the channels of the DVR?

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

### Q4. Cannot find HDD

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

### Q5. Cannot record

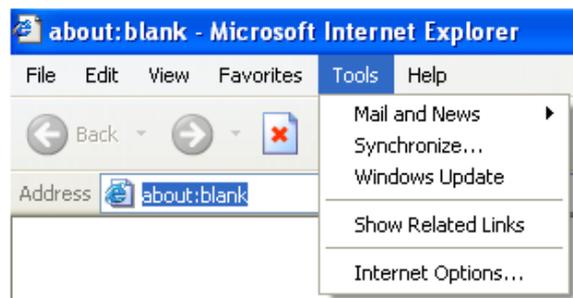
- Don't format HDD. Please format it manually first.
- Don't enable record function or incorrect setup. Please refer to Chapter 5 Record search & playback and backup.
- HDD is full and not enables recycle function. Please refer to 4.3 Record configuration. Change a new HDD or enable recycle.
- The HDD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

### Q6. Cannot use mouse.

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

### Q7. Cannot download ActiveX control.

- IE browser blocks activeX. Please do setup following below.
  - Open IE browser. Click Tools-----Internet Options....



- select Security-----Custom Level....Refer to Fig 7-1
- Enable all the sub options under "ActiveX controls and plug-ins" refer to Fig 7-2
- Then click ok to finish setup.

b. Other plug-ins or anti-virus blocks ActiveX. Please uninstall or close them.

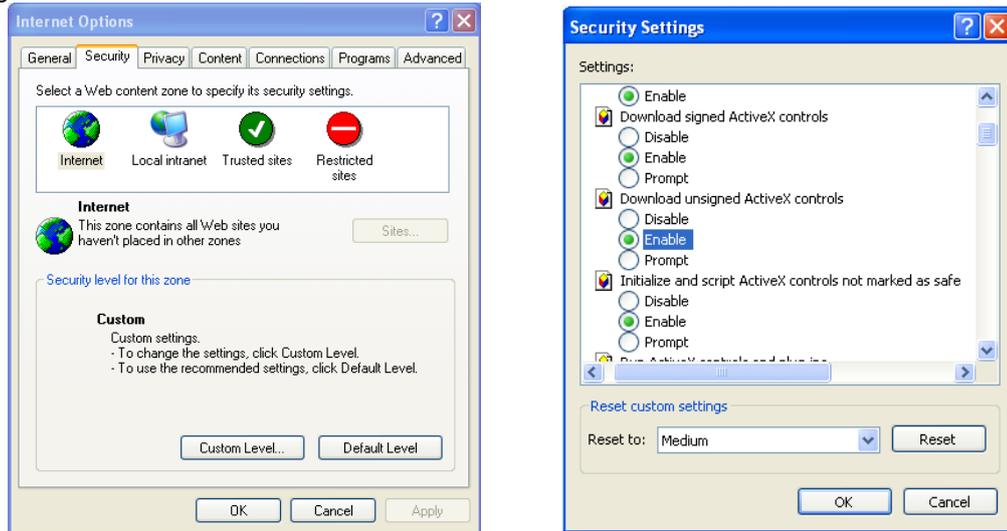


Fig7-1

Fig7-2

**Q8: 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

**Q9: 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.

**Q10: How to upgrade when added new functions or revised software**

After getting the upgraded software from manufacturer, please copy it into U disk, and then select “*upgrade*” in the menu. If upgrading the kernel procedure, please refer to the following method: firstly insert U disk into DVR, and then input “adwsws” in the password of system login and the system will upgrade kernel procedure automatically. After finished, please restart DVR to achieve.

**Notice: Do not power off in the system upgrading process! Otherwise, it may cause that DVR cannot start.**

**Q11: Why is the hard disk used in a DVR identified a new hard disk if directly used to another same type DVR? And why must we format it again?**

When DVR only uses one hard disk, the hard disk removed from one to another same type DVR can work normally without format. However, when a DVR adds to a new hard disk, it will identify the hard disk as a new one and inquire whether to format no matter whether this hard disk used or not in another same type DVR before. In this condition, it can be used normally after formatted according to the guide; if two or more hard disks used in different DVRs, when used in another DVR with the same type, they will be identified to be two or more new hard disks, and all of them need to format. In general, please do not try using more disks removed from different DVRs into another one in case the data lose.

**Q12: What are the minimum configurations of PC for clients connecting?**

<b>PC Module</b>	<b>Parameters</b>
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/SEVEN
DirectX	9.0

**Q13: What are the PC configurations for 8-ch real time product with fully open channel mainstream?**

<b>PC Module</b>	<b>Parameters</b>
CPU	Intel Core(TM)2 Duo CPU E4600
Motherboard	G31/P31 chip
HDD	80G
RAM	1GB
VGA	GMA3100/NVIDIA GeForce 8400/ ATI RADEON HD3450
OS	Windows 2000(SP4 above) /Windows XP(SP2 above) VISTA/ SEVEN
DirectX	9.0

## Appendix B Compatible Devices

### 1. Compatible USB drive after test.

Brand	Capacity
A-DATA	512MB, 1G, 2GB
Transcend	4GB
Kingston	2GB
Toshiba	2GB
SanDisk	4GB

### 2. Compatible external USB CD/DVD writers after test

Brand	Model
LG	GH24NS90

### 3. Compatible HDD

Brand	Model number	Capacity
Western Digital	1600AAJS FW:00L7A0	160GB
	2500AVVS FW:73M8B0	250GB
	3200AVVS	320GB
	5000AVJS FW:63YJA0	500GB
	5000AVVS FW:63M8B0	500GB
	5000AAKS FW:00V1A0	500GB
	5000BUDT (2.5") FW:63G8FY0	500GB
	5000AUDX FW:63WNHY0	500GB
	10EURS FW:630AB1	1TB
	10EVDS FW:63U8B0	1TB
	WD10PURX FW:64D85Y0	1TB
	15EARS FW:00Z5B1	1.5TB
	15EURS FW:63S48Y0	1.5TB
	20EVDS FW:63T3B0	2TB
	20EARS FW:00S8B1	2TB
	2001FASS FW:00U0B0	2TB
	WD20PURX FW:64P6ZY0	2TB
	WD30PURX FW:64P6ZY0	3TB
	WD40PURX FW:64GVNY0	4TB
	WD40EURX FW:64WRWY0	4TB
HITACHI	HDS721616PLA380	160GB
	HCT721025SLA380	500GB
	HCP725050GLA380	500GB
	HDP725050GLA360	1TB
SEAGATE	ST500DM002 (SATA3) FW:KC44	500GB
	ST3100528AS FW:CC38	1TB
	ST31000524AS (SATA3)FW:JC4B	1TB
	ST2000DL003 (SATA3) FW:CC32, CC3C	2TB
TOSHIBA	HCS5C1050DLE630 FW:620DT01ABA050V	500GB
	DT01ABA100	1TB
	DT01ACA100	1TB

## APPENDIX C NAT setup description

(1) Here is describe how to connect the device to mobile phone:

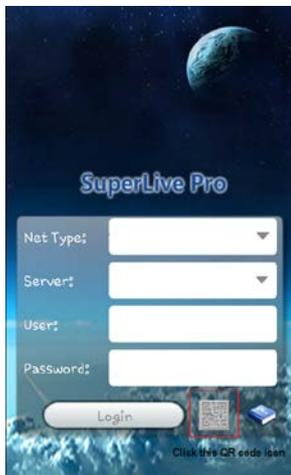
※ Take Android mobile system as example



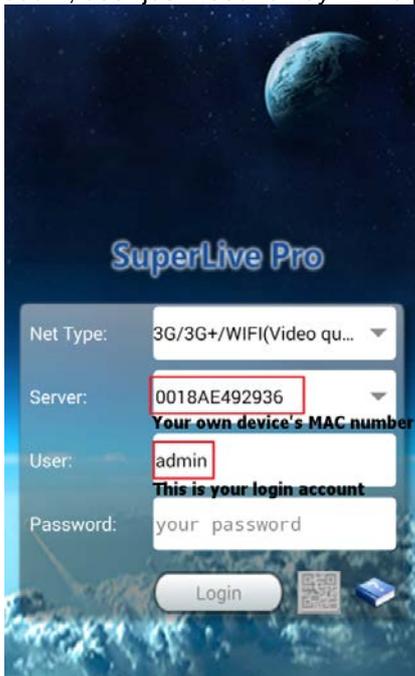
1. When NAT function is already enabled, and all the network setting is done. Click the ( Superlive pro) icon on your mobile phone and go to information (Menu→Information→QR CODE) enable the ORCODE function.



2. When Superlive pro program is enabled, at the bottom of image you will see the QR code function icon. Click the icon, and it will pop-up the scanner image. Target it to the Screen QR CODE image.



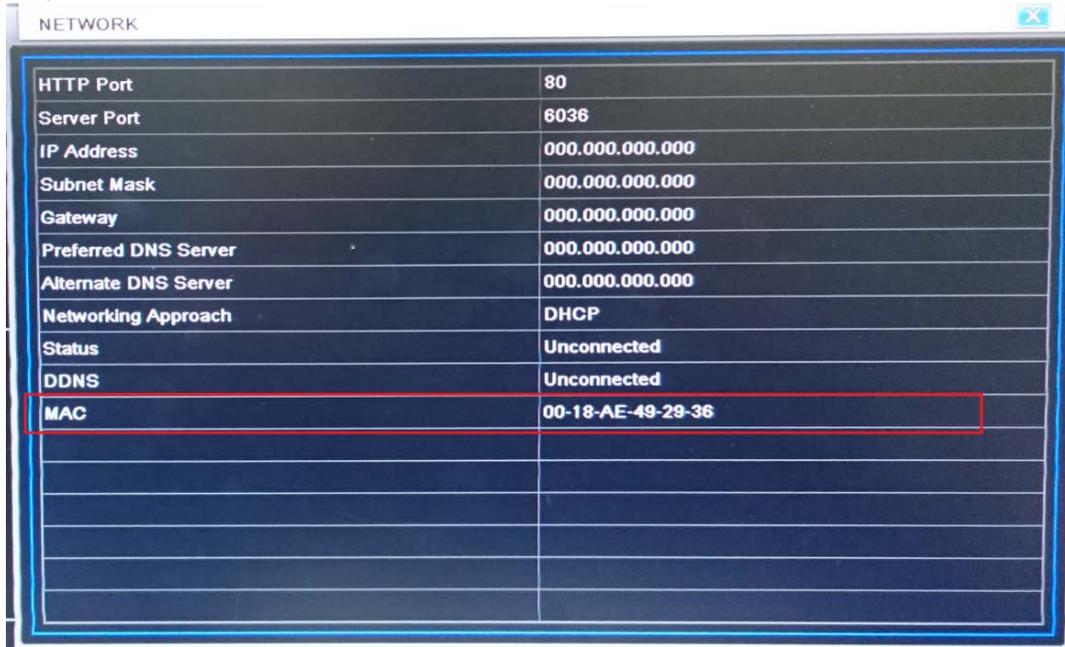
3. After finished the scanning procedure, it will automatically bring out the device MAC number and user account, user just need to key-in the password.



※ In order to avoid the security risk, user (himself or herself) need to key-in the password yourself.

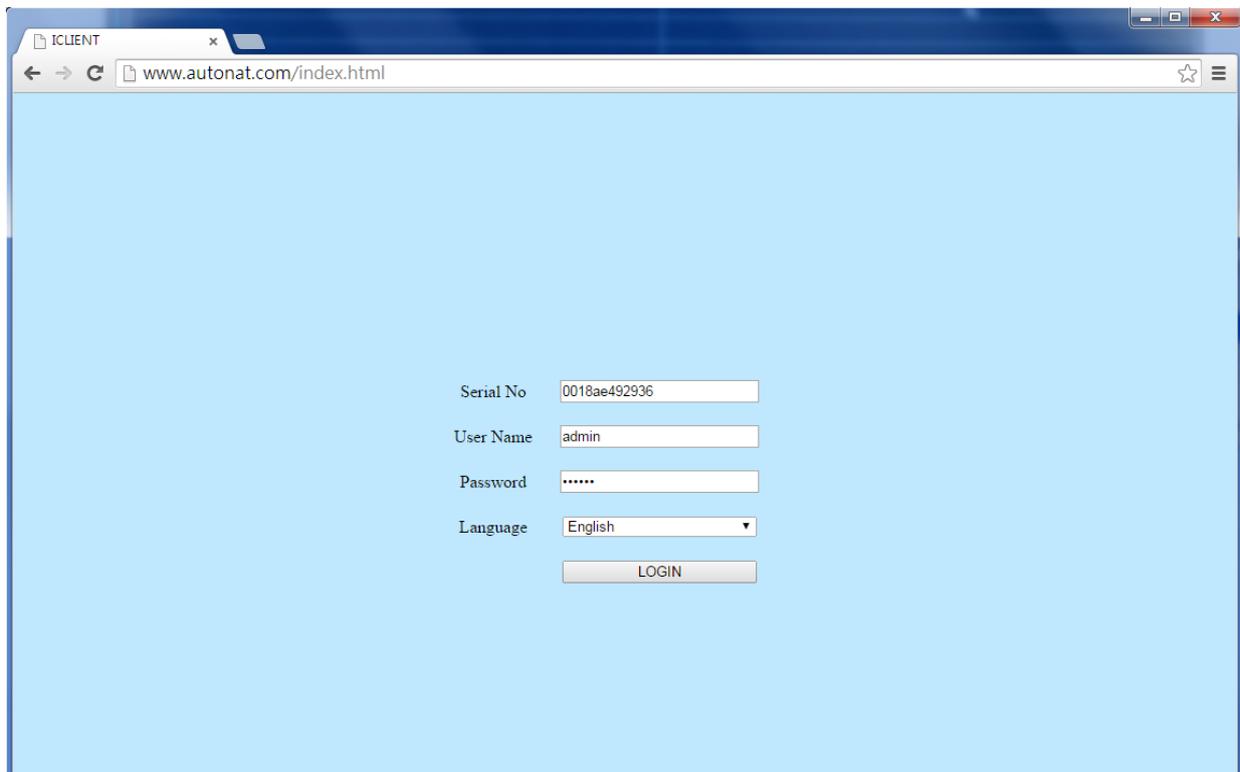
(2) Enable NAT function, the operation step of using browser to do remote control

Step1. Enter into Menu→Information→Network→Confirm the MAC number of the DVR.



HTTP Port	80
Server Port	6036
IP Address	000.000.000.000
Subnet Mask	000.000.000.000
Gateway	000.000.000.000
Preferred DNS Server	000.000.000.000
Alternate DNS Server	000.000.000.000
Networking Approach	DHCP
Status	Unconnected
DDNS	Unconnected
MAC	00-18-AE-49-29-36

Step2. Open the browser (Support browser type include: IE 、 Chrome 、 Firefox), here is taking IE for operation description. Insert the <http://www.autonat.com>, and it will lead you visit the login website. Under Serial No field, you have to key-in the MAC number of DVR ( follow the step1 to confirm how to find the MAC number), and then follow the step to login.



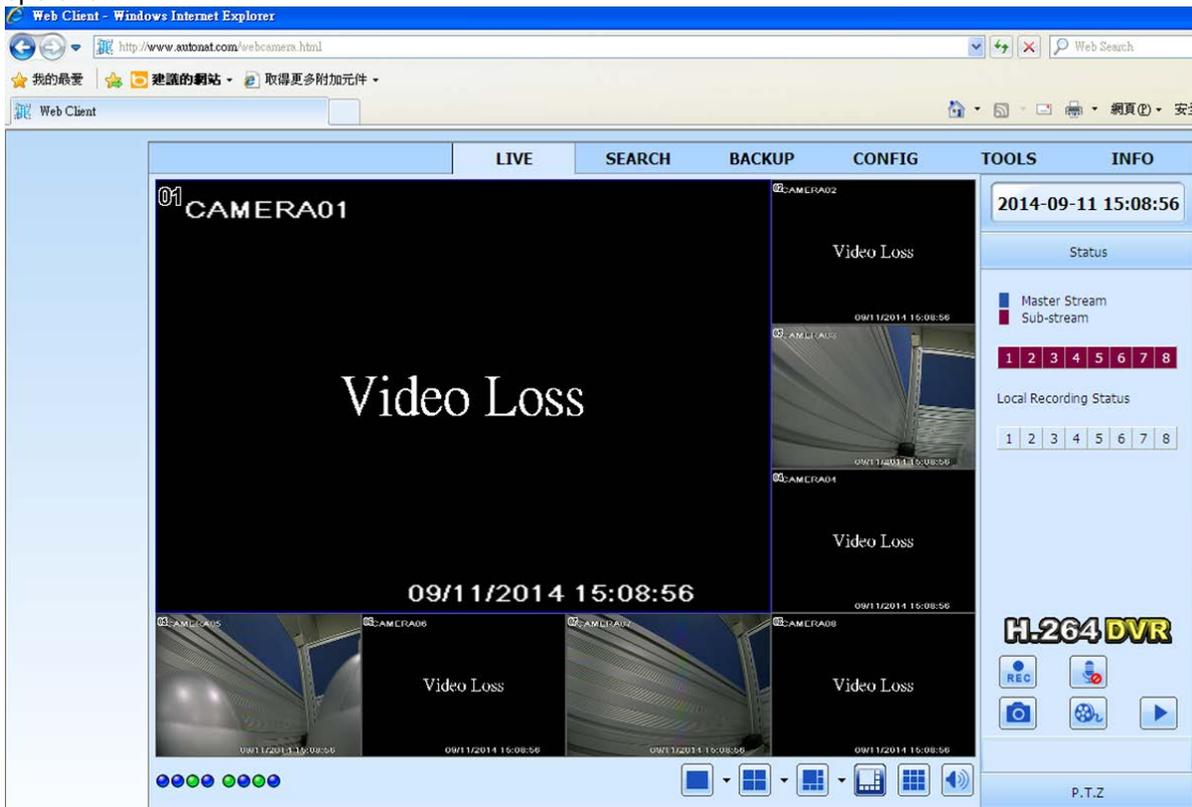
Serial No

User Name

Password

Language

Step3. As you key-in the correct account and password, after press login you can browse the IE CMS to operation.



## APPENDIX D DDNS setup procedure

(Take [www.geekciti.com](http://www.geekciti.com) and autoddns as examples)

### (1) [www.geekciti.com](http://www.geekciti.com) set up description:

1. Visit [www.geekciti.com](http://www.geekciti.com) and register new account by filling each line then press submit, you need to have a valid email which will be use as username

*DDNS account creation.*

NEW USER REGISTRATION	
EMAIL ADDRESS	<input type="text" value="dvrtest110@gmail.com"/>
PASSWORD	<input type="password" value="....."/> ?
PASSWORD CONFIRM	<input type="password" value="....."/>
FIRST NAME	<input type="text" value="aloun"/>
LAST NAME	<input type="text" value="chen"/>
SECURITY QUESTION	<input type="text" value="Favorite Food"/> ▼
ANSWER	<input type="text" value="pizza"/>
CONFIRM YOU ARE HUMAN	<div style="text-align: center;"> <p>New Captcha</p> <input type="text" value="5"/> <p>Solve the problem above</p> </div>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

2. Create a domain name as your convenience and choose the extension among the list available, then click on REQUEST DOMAIN

*You must create a domain name to continue.*

Domain name must start with (a-z, 0-9), Cannot end, nor start, but may contain a hyphen, and is not case-sensitive.

.  ▼

3. If the domain exists already you will have to choose another domain name, if not you will see the below screen

*Your domain was successfully created.*

Search by domain

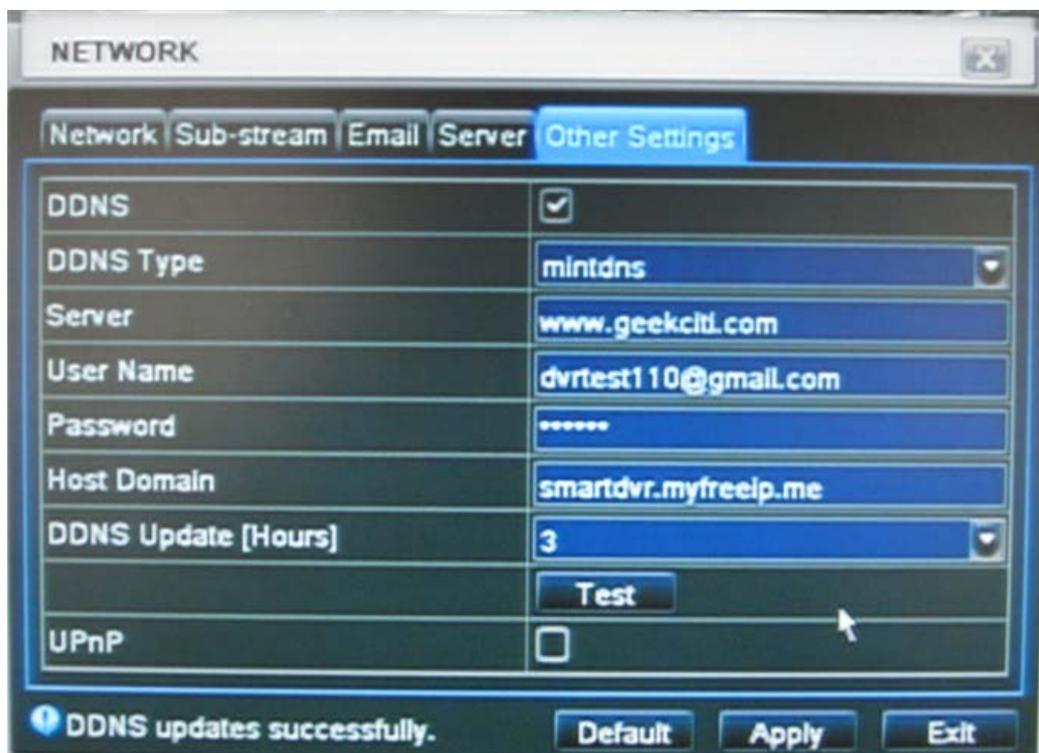
*Click a name to edit your domain settings*

NAME	STATUS	DOMAIN
SMARTDVR		smartdvr.myfreeip.me
Last Update: <i>Not yet updated</i> IP address: 59.124.207.207		

Create additional domain names

[1]

4. Fill all setting on DVR then click "Test" to verify. Then click "Apply" to Finish DVR network setting. (Menu-> Network -> Other Settings)



DDNS: enabled  
 DDNS Type: mintdns  
 Server www.geekciti.com  
 User Name: dvrtest110@gmail.com (your account on www.geekciti.com website, as step 1)  
 Password: xxxxxx (your account password on www.geekciti.com website, as step 1)  
 Host Domain: smartdvr.myfreeip.me (you create on www.geekciti.com website, as step 2)  
 Update Interval [M]: 3 (a time period to sync with www.geekciti.com service)  
 (3 means 3 hours)

Press TEST button, if it's ok you will see **DDNS updates successfully** message

5. You could also visit GEEKCITI website to check if the setting works.

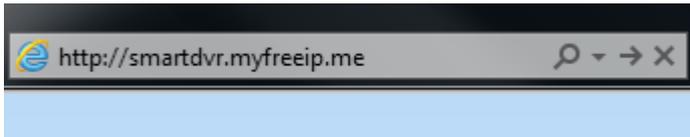
*Click a name to edit your domain settings*

NAME	STATUS	DOMAIN
SMARTDVR		smartdvr.myfreeip.me
Last Update: 1/16/2013 11:32:13 PM IP address: 60.250.221.50		

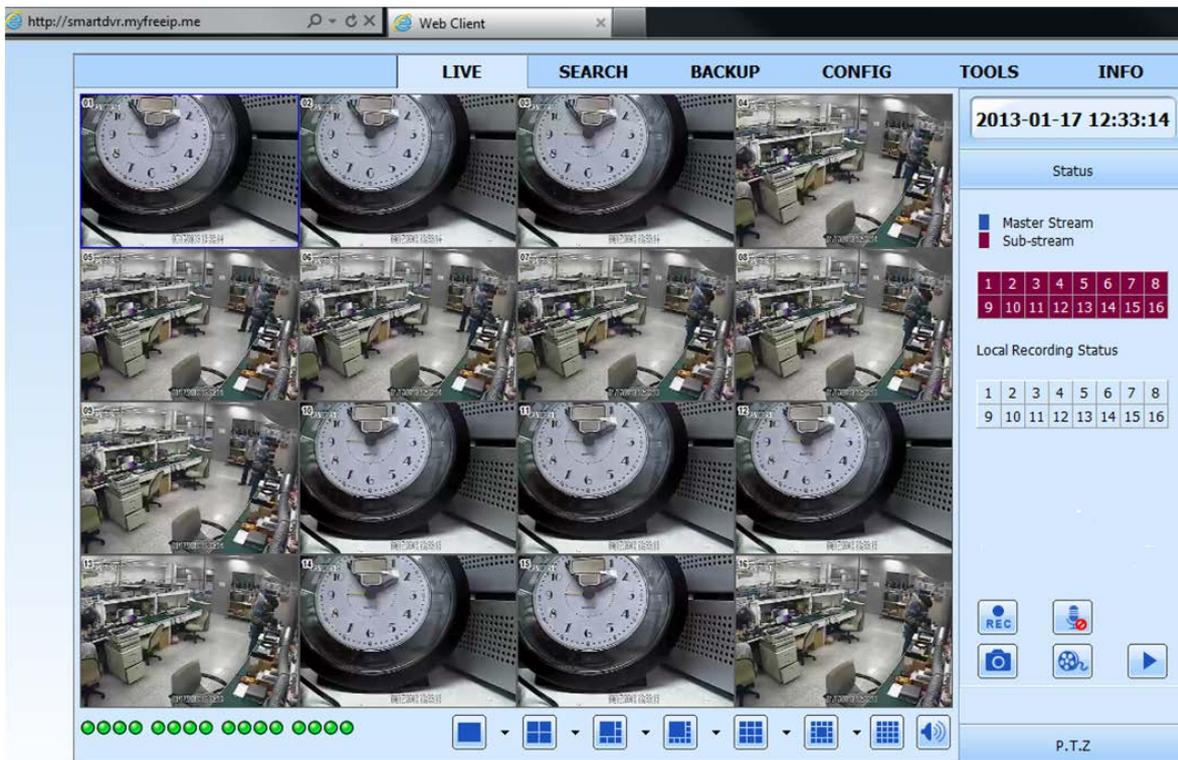
Create additional domain names

[1]

You can test with a computer with internet explorer browser by key in the new domain name

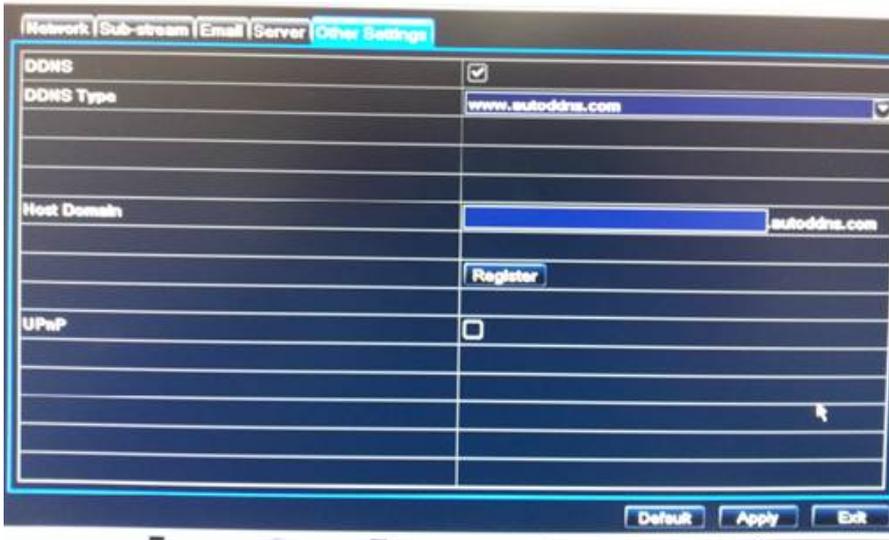


You will see the DVR main page, after key in the username and password as well the display language, you should be able see camera live display

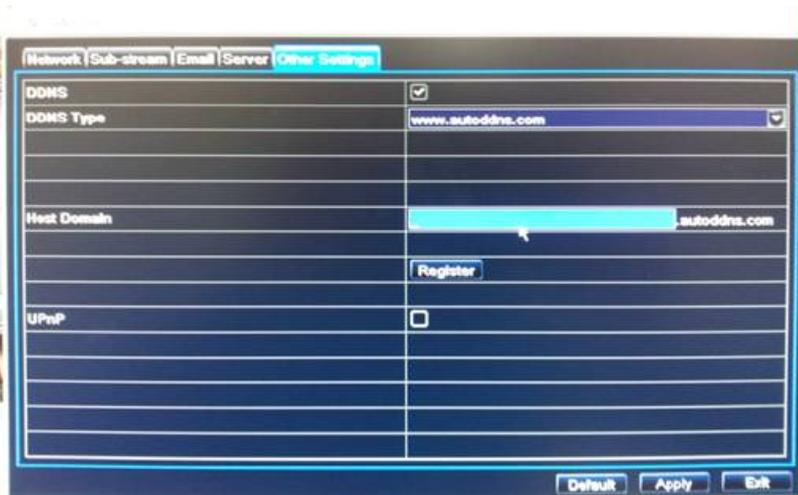


(2) autoddns set up description:  
 In other setting item:

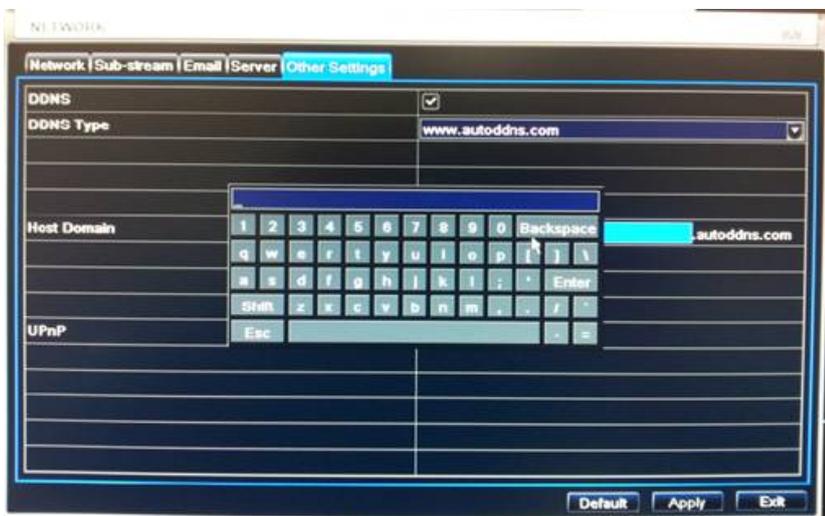
Step1. Choose DDNS Type : www.autoddns.com



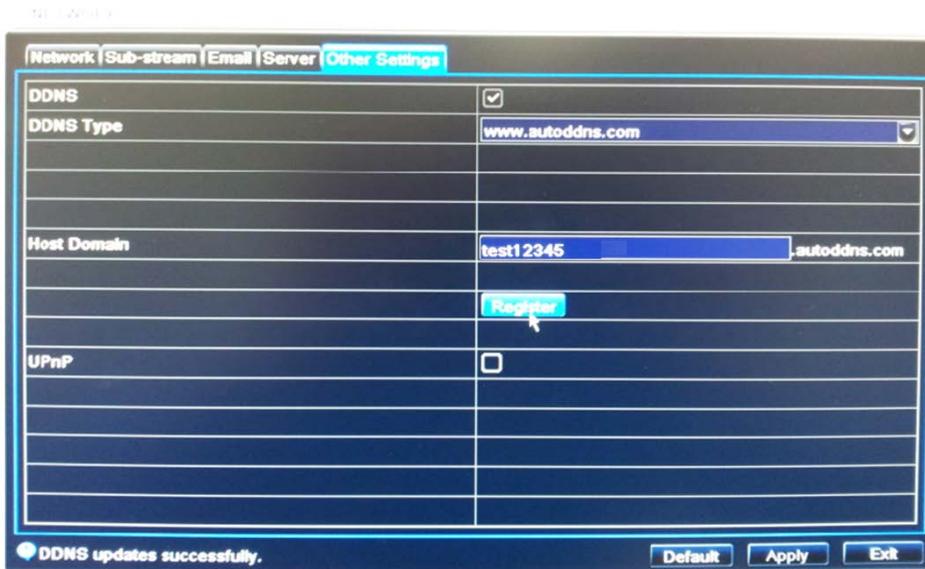
Step2. move the mouse to here



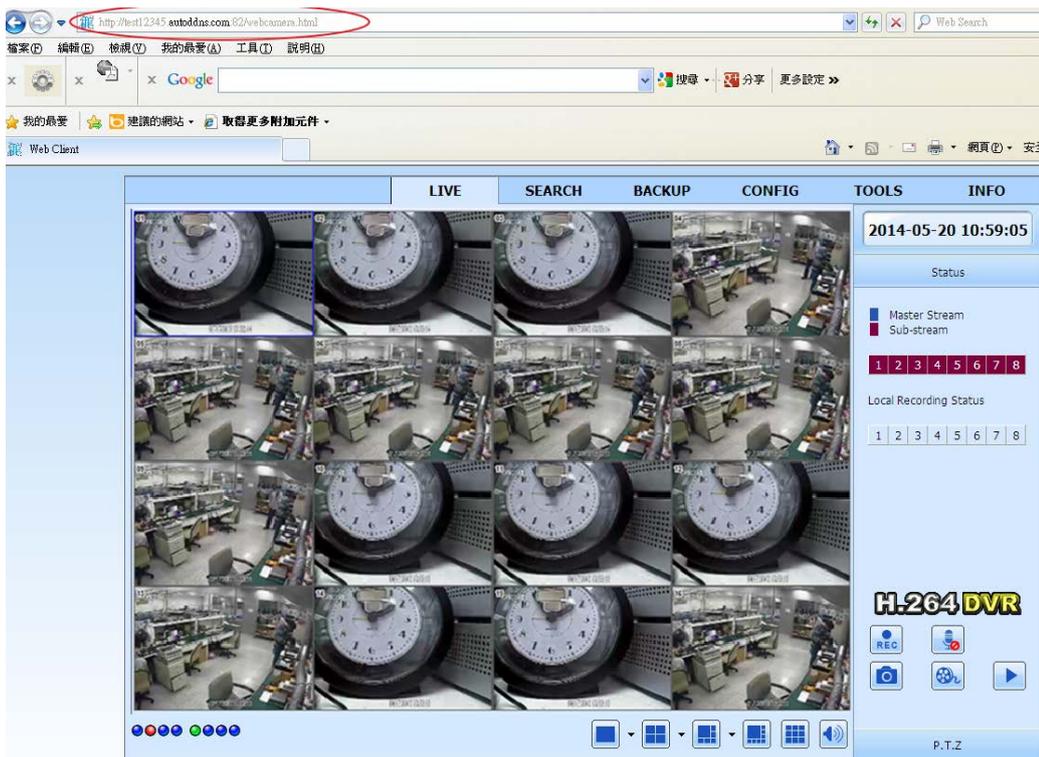
Step3. It will pop up a virtual keyboard and you have to set up your account here



Step4. For example: Type test12345.autoddns.com and then press register button to test if the account is can for use. Here will appear DDNS update successfully .



After finished the autoddns set up, you can type the name that you have just apply, for example: to type <http://test12345.autoddns.com> you will see the DVR main page, after key in the username and password as well the display language, you should be able see camera live display



## APPENDIX F SPECIFICATIONS

### Type A: TVD-04 / TVD-08 / TVD-16

Model	TVD-04	TVD-08	TVD-16	
Compression format	H.264 Main Profile			
Video output	VGA x 1, HDM Ix 1			
Video Input	BNC x 4	BNC x 8	BNC x 16	
HDMI/VGA Resolution	1080 x 1920/1280 x1024/ 800 x 600			
Record Resolution	960H / 720P (1280 x 720) / 1080P (1920 x 1080)			
Display Frame Rate	100FPS (PAL), 120FPS (NTSC)	200FPS (PAL) , 240FPS (NTSC)	400FPS (PAL) , 480FPS (NTSC)	
Record Frame Rate	960H	100FPS (PAL), 120FPS (NTSC)	200FPS (PAL) , 240FPS (NTSC)	
	720P			400FPS (PAL) , 480FPS (NTSC)
	IP 720P	50FPS (PAL) , 60FPS (NTSC)	100FPS (PAL) , 120FPS (NTSC)	
	IP 1080P	25FPS (PAL) , 30FPS (NTSC)	50FPS (PAL) , 60FPS (NTSC)	100FPS (PAL) , 120FPS (NTSC)
Audio Input	RCA x 1			
Audio output	RCA x 1			
Record Mode	Manual / Timer / Motion detection			
Simplex/Duplex/Triplex	Pentaplex			
Network Interface	RJ45 (LAN, INTERNET)			
PTZ control	YES			
Communication interface	RS485, USB2.0 x 2 (one for backup, another for USB mouse)			
Disk info	SATA x 1			
Remote controller	YES			
Power Supply	DC12V			
Temperature	0°C-50°C			
Humidity	10%-90%			

### Type B: TVD-16-1U

Model	TVD-16-1CH	
Compression format	H.264 Main Profile	
Video output	VGA x 1, HDM Ix 1	
Video Input	BNC x 16	
HDMI/VGA Resolution	1920 x 1080 /1280 x1 024/ 800 x 600	
Record Resolution	960H / 720P (1280 x 720) / 1080P (1920 x 1080)	
Display Frame Rate	400FPS (PAL), 480FPS (NTSC)	
Record Frame Rate	960H	
	720P	400FPS (PAL), 480FPS (NTSC)
	IP 720P	
	1080P	200FPS (PAL), 240FPS (NTSC)
	IP 1080P	100FPS (PAL) , 120FPS (NTSC)
Audio Input	RCA x 1	
Audio output	RCA x 1	
Record Mode	Manual / Timer / Motion detection	
Simplex/Duplex/Triplex	Pentaplex	
Network Interface	RJ45 (LAN, INTERNET)	
PTZ control	YES	
Communication interface	RS485, USB2.0 x 2 (one for backup, another for USB mouse)	
Disk info	SATA x 2	
Remote controller	YES	
Power Supply	DC12V	
Temperature	0°C-50°C	
Humidity	10%-90%	

\*Specifications and appearance are subject to change without notice