

# **Embedded NVR**

**(Apply to 4CH/9CH/16CH)**

## **User Manual**

**Ver 2.0.1**

## Note

- ✧ Below is correct use method of products, prevent dangerous and prevent property incur loss contents; please follow the rules when you use the NVR.

## Operating Requirements

- ✧ Transport, use and store the product in suitable temperature and humidity, please don't place the product in humid environment.
- ✧ Do not place this product in direct sunlight or near heat generating equipment.
- ✧ Do not install in humid, dusty or fuliginous environment.
- ✧ Do not place this product in any uneven surface to avoid falling off and damage.
- ✧ Install in well-ventilated environment, don't jam the vent hole of device.
- ✧ Keep horizontal installation.
- ✧ Do not place this product near any liquid.
- ✧ Do not place any objects on this product.
- ✧ Please use in reference input or output range.
- ✧ Don't disassemble this product at will.

## Statement

- ✧ Thank you for choosing our products, if you have any questions or need, please contact the custom department at any time.
- ✧ Products, updated in real time, the contents of manual will be updated from time to time without prior notice. If it is inconsistent with the products, please be on the products basis.
- ✧ Products will be updated from time to time without prior notice.
- ✧ The manual is reference for several models; please operate according to actual product.
- ✧ If there is doubt or dispute in manual, please refer to the final interpretation of the company.
- ✧ If not operate according to the manual, any loss will be undertaken by user.

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# Chapter1 Introduction

## 1.1 Overview

This series of products are functional maturation embedded digital and network video surveillance system, integrated video and audio coder and decoder, embedded system, storage, network and intellectual technology and etc. Support preview, record, backup and transmit copy through network at the same time, control multi-window and multi-task at the same time and playback.

The product, developed on Linux system, can enhance highest stability and safety. It has 1 to 8 tubs to satisfy single device's storage requirements and provides HDMI and VGA video output. Use manager client to realize distributed management.

## 1.2 Product Positioning

This series embedded NVR can widely be used in education, medical treatment, financial, energy and tobacco industry and etc. Education sector mainly faced to key university, key middle school, high-end elementary school, high-end kindergarten and country and city point hospital and research institute, apply to safety schoolyard and electronic examination and etc. Medial treatment mainly apply to safety hospital, remote consultation, intensive care, operation teach project, and etc. Financial mainly faced to government owned bank, other business banks, stock, insure, fund and investment corporation, apply to financial institution business hall, safe-deposit box, vault, ATM machine and passage and etc. Energy and tobacco industry mainly apply to factory, production line, storeroom, dynamic environment, project constructed, dilatation and networked upgrade.

## 1.3 Main Feature

### ➤ Add front-end device

Support 720P mega pixel HD IP camera, 960P HD IP camera 1080P HD IP camera.

Support search and add all above front-end device.

### ➤ Video Preview

High definition 1920\*1080, 1440\*900, 1366\*768, 1280\*1024, 1024\*768 preview, support HD1080P (1920\*1080) //HD960P (1280\*960)/HD720P (1280\*720) real time preview, support HDMI, VGA output;

Support set up video parameters;

Preview video overlay multiple prompt information, such as channel name, IPC system time, record status, motion detect status and alarm status and etc;

Front-end IP camera PAL video streaming input;

Front-end IP camera audio streaming input;

Support audio and video synchronize composite streaming record, single video streaming record;

Customize set up resolution, code rate and frame rate;

Multiple motion detection;  
Overlay channel name ;  
Single screen or multiple screens cruise preview;

➤ **Record**

Support manual, schedule record, alarm record, motion record, motion or alarm, motion and alarm record types;

➤ **Storage**

Through sequential storage, HDD write-through and auto sleep to extend HDD service life;  
Automatically avoid HDD bad track;  
Record data encryption;  
HDD high speed format;

➤ **Playback**

NVR supports 4-channel 1080P real time playback, 32X fast forward and fast backward;  
Calendar automatically displays record data status;  
Full screen play mode;  
Go to next frame play mode;  
Audio playback;  
Channel name sequential display;

➤ **Backup Management**

Support USB storage device and etc;  
Support multiple file formats backup;  
Backstage backup mode to ensure user zero wait;  
Backup file can be played in local, file manager supports play peripheral backup file and local hard drive's snapshot picture;  
Peripheral backup file can be played in general player.

➤ **Alarm Management**

Support maximum 16-channel alarm input, 3-channel alarm output;  
Integrated network alarm host management;  
Independence time quantum defense everyday;  
Multiple linkage output: audio warning, alarm on monitor, email linkage, upload to center, trigger alarm output and PTZ linkage;  
Alarm video linkage can output to arbitrarily matrix output port;  
On key defense on/off;  
Exception handling alarm, including HDD full, HDD fault, network broken, IP address conflict, illegal access, video signal exception;

➤ **PTZ Control**

PTZ control, support multiple PTZ protocols, display control window according to protocol;  
Support use mouse to adjust focus and zoom control;  
Support PTZ or speed dome set and call preset, cruise, track;

➤ **Network Control**

10M/100M/1000M self-adaptation network interface;  
Support HTTP/P2P/RTSP/RTP/RTCP/SADP/SMTP protocol, support email customize alarm information;  
Support TCP/UDP protocol, PPPOE dial-up protocol, dynamic get IP address (DHCP);  
Support P2P cloud ;

Dynamic network protocol stack loading, seamless access platform;

Realize network real time preview through network, remote download record file, remote playback record file, remote real time preview through IE;

Realize network remote control PTZ, remote configure device parameters, get device run status and log information, remote reboot and remote update;

➤ **User Management**

Support 9 users three-level management; advanced user management mode, can set every channel's permission;

Support user binding with IP address;

➤ **Log**

Support export local and remote operation log;

➤ **Device Management**

Self recovery function: when main control and coder and decoder in error working status, auto reboot device and record error code into device log;

Support device configuration parameters export and import, ensure configure multiple devices quickly;

Support auto reboot;

## Chapter2 Device Architecture




### 2.1 Front Panel






#### 2.1.1 4CH/9CH Product Front Panel

4CH/9CH Product Front Panel



4CH/9CH Product Front Panel Function Introduction Table

Key	Identification	Function
Power on/off		power on/off
HDD shortcut key		HDD indicator, flicker when record file, press it to enter playback interface
Alarm indication key		Alarm indicator, lamp on when alarm happens, press it to see alarm







		history record
Network shortcut key		ACT indicator, flicker when have flow, press it to enter network configuration interface
Main menu button		Press it to enter main menu
Return button		Press it to enter upper menu
Wireless remote control window		Through wireless remote controller, remote control NVR
Up/Down/Left/Right		Corresponding with up/down/left/right

## 2.1.2 16CH Product Front Panel





16CH Product Front Panel



16CH Product Front Panel Function Introduction Table

Key	Identification	Function
Power on/off		power on/off
HDD shortcut key		HDD indicator, flicker when record file, press it to enter playback interface
Alarm indication key		Alarm indicator, lamp on when alarm happens, press it to see alarm history record
Network shortcut key		ACT indicator, flicker when have flow, press it to enter network configuration interface
Main menu button		Press it to enter main menu
Return button		Press it to enter upper menu



Wireless remote control window		Through wireless remote controller, remote control NVR
Up/Down/Left/Right		Corresponding with up/down/left/right
USB Interface		External connection USB storage device, mouse and etc;
Flying shuttle external key		left/right key when real time surveillance, fast forward(turn right), fast backward(turn left)in playback interface
Flying shuttle internal key		up/down/left/right

## 2.2 Rear Panel

### 2.2.1 4CH/9CH Rear Panel

4CH/9CH Product Rear Panel



4CH/9CH Product Rear Panel Function Introduction Table

Order	Interface	Function
IN	Audio Input (only 4/9CH a fully functional version support)	Audio input interface, receive audio from microphone, pickup and other analog audio signal
OUT	Audio Output (only 4/9CH a fully functional version support)	Audio output interface, output analog audio signal to loudspeaker box and etc
NET	Network	10/100M self-adaptation network interface
HDMI	HDMI (only 4/9CH a fully functional version support)	High definition audio, video output interface, transmit uncompressed high definition audio and video data to HDMI display device
USB/MOUSE	USB	Use for external USB storage device, mouse and etc
VGA	VGA output	VGA video output interface, output analog video signal, preview analog video
RS232	RS232 serial (only 4/9CH a fully functional version support)	User for serial debugging

DC 12V	Power Supply	Power interface, DC 12V 4A
POWER	Power on/off	Power on/off
I/O	I/O port (only 9CH a fully functional version support)	Alarm input, alarm output, RS485 interface and etc

## 2.2.2 16CH Product Rear Panel

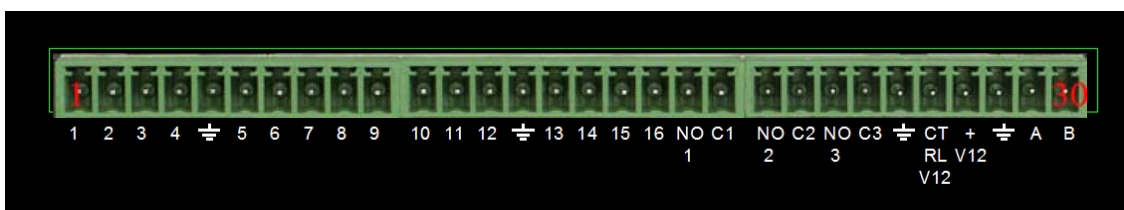
16CH Product Rear Panel



16CH Product Rear Panel Function Introduction Table

Order	Interface	Interface Function
POWER	Power on/off and power input	Power on/off, AC220V
IN	Audio Input	Audio input interface, receive audio from microphone, pickup and other analog audio signal
OUT	Audio Output	Audio output interface, output analog audio signal to loudspeaker box and etc
NET	Network	10/100M self-adaptation network interface
HDMI	HDMI	High definition audio, video output interface, transmit uncompressed high definition audio and video data to HDMI display device
eSATA	eSATA	SATA external interface, allow connect SATA interface device
VGA	VGA output	VGA video output interface, output analog video signal, preview analog video
RS232	RS232 serial	User for serial debugging
I/O	I/O	Alarm input, output, RS485 connection interface and etc

## 2.2.3 9CH/16CH Product I/O port



9CH/16CH Product Rear Panel I/O Port Function Introduction Table

Order	Interface	Function
1	IO alarm input 1	Receive external alarm source, can set normally open and normally close input. Use external power supply to power up input device, alarm input device need to connect with GND.
2	IO alarm input 2	
3	IO alarm input 3	
4	IO alarm input 4	
5	GND	
6	IO alarm input 5	
7	IO alarm input 6	
8	IO alarm input 7	
9	IO alarm input 8	
10	IO alarm input 9	
11	IO alarm input 10	
12	IO alarm input 11	
13	IO alarm input 12	
14	GND	
15	IO alarm input 13	
16	IO alarm input 14	
17	IO alarm input 15	
18	IO alarm input 16	
19	Normally open alarm output 1	NO: normally open alarm output port. C: alarm output common port.
20	Alarm output common port 1	
21	Normally open alarm output 2	
22	Alarm output common port 2	
23	Normally open alarm output 3	
24	Alarm output common port 3	
25	GND	
26	Controllable 12V power supply output	Control switching value alarm relay output, control alarm device according to device whether has 12V voltage or not. At the same time serve as power input of alarm detector.
27	+12V power output interface	Power up camera, alarm device, external device power supply must be less than 1A.
28	GND	
29	RS485_A	Control bus A of 485, use for connect external speed dome PTZ and etc.
30	RS485_B	Control bus B of 485 device, use for connect external speed dome PTZ and etc.

# Chapter3 Installation Description

## 3.1 Check Device and Accessories

When you receive our product, please refer to “container list” that comes with packing box to check device and accessories.

## 3.2 Hard Drive Installation

Factory without provide HDD, first installation must install hard drive first, suggesting using company recommended hard drive model and not recommend using PC dedicated hard drive.

4CH maximum supports 1 HDD, 9CH supports 2 HDD, 16CH supports 8\*80G or upper capacity HDD and an external eSATA HDD, installation quantity as needed, user can choose hard drive quantity according to hard drive capacity, record time and video quality.

### 3.2.1 4CH/9CH Product Hard Drive Installation

1. Take apart host rear panel and side panel's fixed screws;
2. Reversal host, insert hard drive in correct position;
3. Fixed hard drive in rear panel by four screws;
4. Connect up hard drive line and power supply line;
5. Close chassis cover;
6. Fixed host rear panel and side panel's screws.

### 3.2.2 16CH Product Hard Drive Installation

1. Take apart fixed screws in host upper cover and open chassis upper cover;
2. Disassemble hard drive bracket and host rear panel's fixed screws, take out hard drive bracket from host;
3. Hard drive bracket has up and down level, first install lower level then install upper level;
4. Fixed hard drive in hard drive bracket;
5. Fixed hard drive bracket;
6. Plug hard drive data line and take its opposite end to SATA socket;
7. Plug power supply line for every hard drive;
8. Close chassis cover, fixed chassis screws;

**Note: If want to replace hard drive, please power off NVR then open chassis to replace hard drive.**

# Chapter 4 System Access Capability

4CH / 9CH / 16CH product support maximum system access to a 720P HD calculations, transfer rate of each road 2 megabits per second; Or 1080P HD half way, each road transfer rate of 3 MBPS. Details as follow:

Product Model	System Access Capability
4CH	Maximum access 4-channel 720P device, 2Mbps per channel
8CH	Maximum support 8-channel 720P device, 2Mbps per channel
16CH	Maximum support 16-channel 720P device, 2Mbps per channel

# Chapter5 Menu Introduction

## 5.1 Right Click Menu Introduction

As shown below:



# Chapter6 Power on/off

## 6.1 Right Click Menu-Start (Power off, Reboot, login and logout)

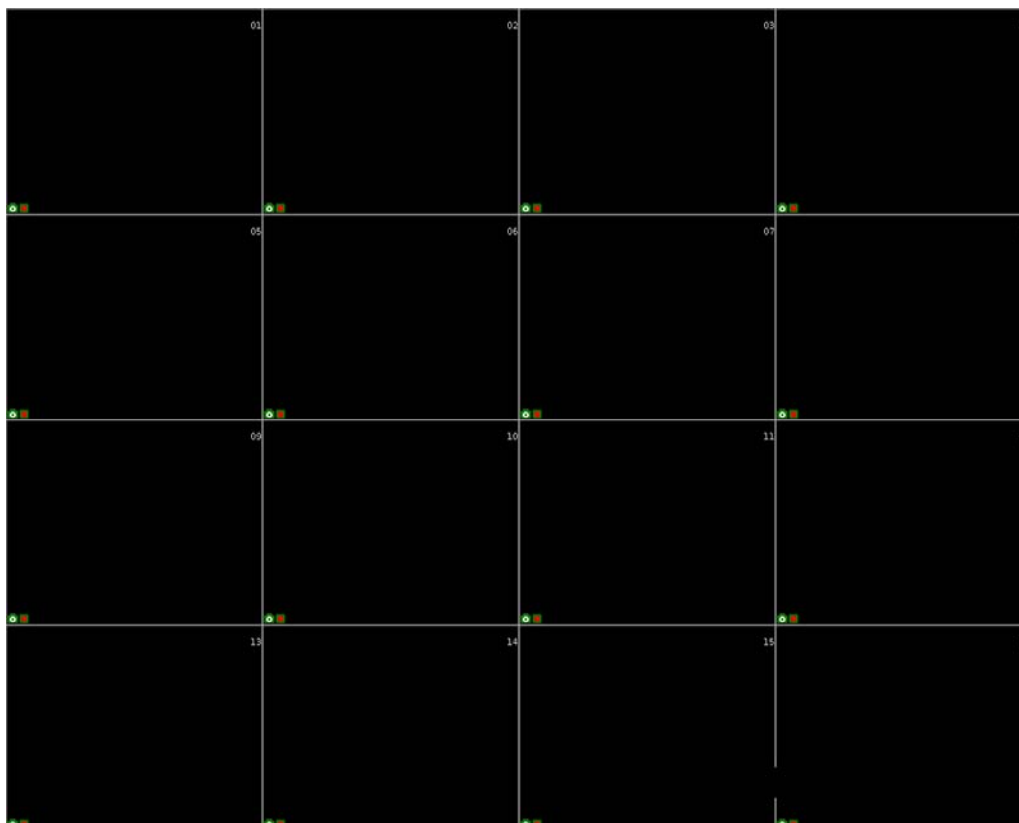


1) Power on: Plug in power supply in correct method, press power on/off key, device will automatically boot.



- 2) Power off: Click “power off” button, device will automatically power off.
- 3) Reboot: Click “reboot” button, device will automatically reboot.
- 4) Logout: Click “logout” button, logout current login user.

## Chapter7 Preview

Login successfully after booting, preview interface will shown as below:



NVR defaults multi-screen display after booting, display screens depend on product. Preview screen will overlay date and time, channel status and etc.

: Preview snapshot; : Record status;

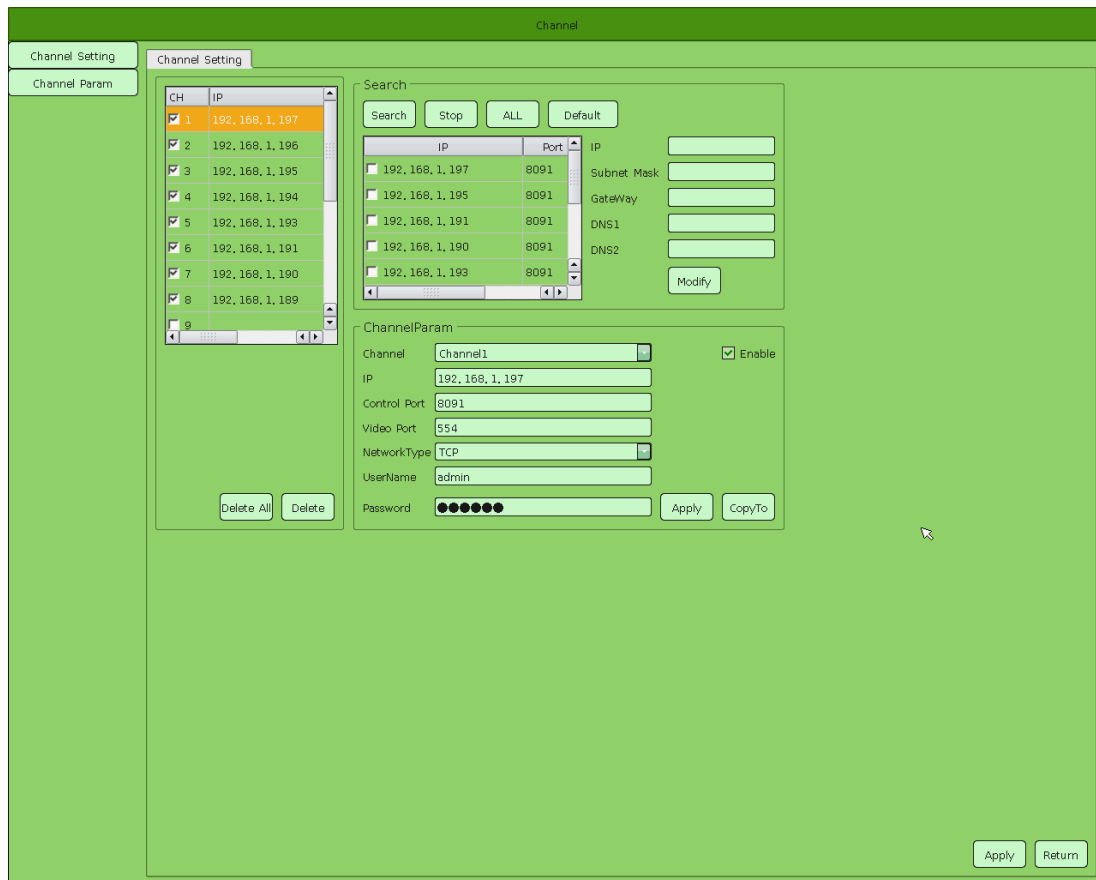
NVR fully functional model,the current end IPC have audio input,mouse click on the corresponding focus preview window, NVR can preview the output.

## Chapter8 IP channel setting

Right click menu and choose “IP channel setting” to enter IP channel setting page, in this page, you can configure IPC access information, as shown below:



## 8.1 Manual



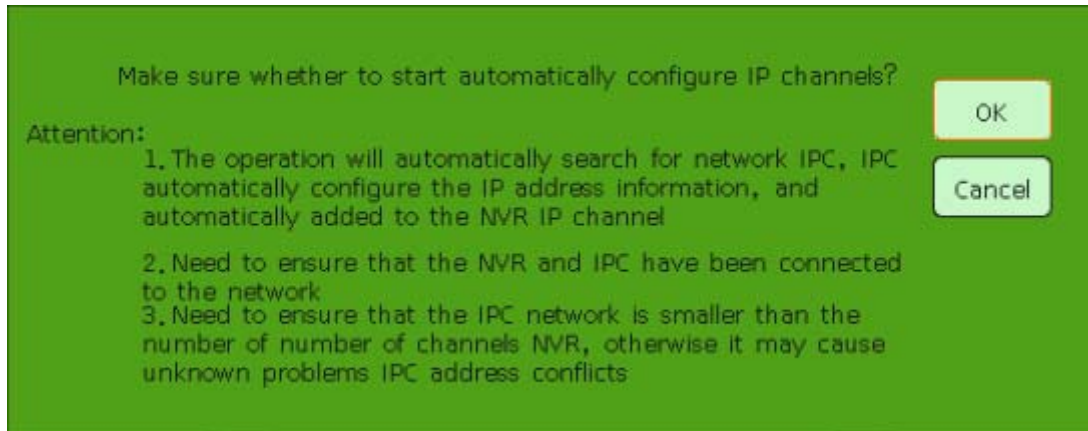
- 1) Search: click “Search” to automatically search IPC devices which support private protocol in LAN, in search list, select check box in front of device, click “Save” to finish adding device.
- 2) Stop: click “Stop” to stop searching IPC devices.
- 3) All: Click “Full” will add device in IP channel after searching; if NVR has added device.
- 4) Default: Click “Search”, choose the IPC which you want with mouse, then click “default” and the IPC will return to the factory default Settings.

**Note: If the IPC has been added to the channel need to delete, search option again after "ok" to restore the factory Settings of the IPC.**

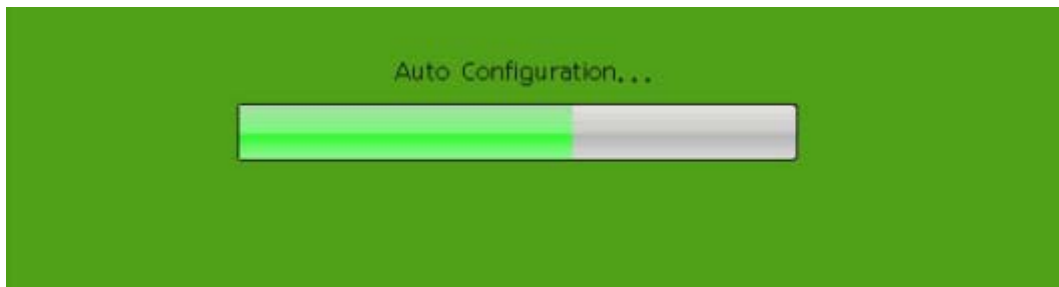
- 5) Modify network parameters: Click “Search”, select IP address in search list then network parameters of device will be shown in right, click “Modify” after finish modifying network parameters of device.
- 6) Enable Channel: Choose the channel you want to enable, check “Enable”.
- 7) IP: Manually input IP address of device.
- 8) Control Port: Manually input port of device (default is 8091).
- 9) Video Port: Manually input video port (default is 554).
- 10) Network type: TCP and UDP for choose, It is recommended to use TCP.
- 11) User Name: Manually input password of device(default is admin).
- 12) Password: Manually input username of device(default is 123456).

## 8.2 Auto

Click “Auto” then pop-up prompts, as shown below:



Click “OK” to add the IPC automatic, “Cancel” will not. As shown below:



After the automatic configuration, can automatic playing, as well as with the hard disk and formatted according to the video plan after the video

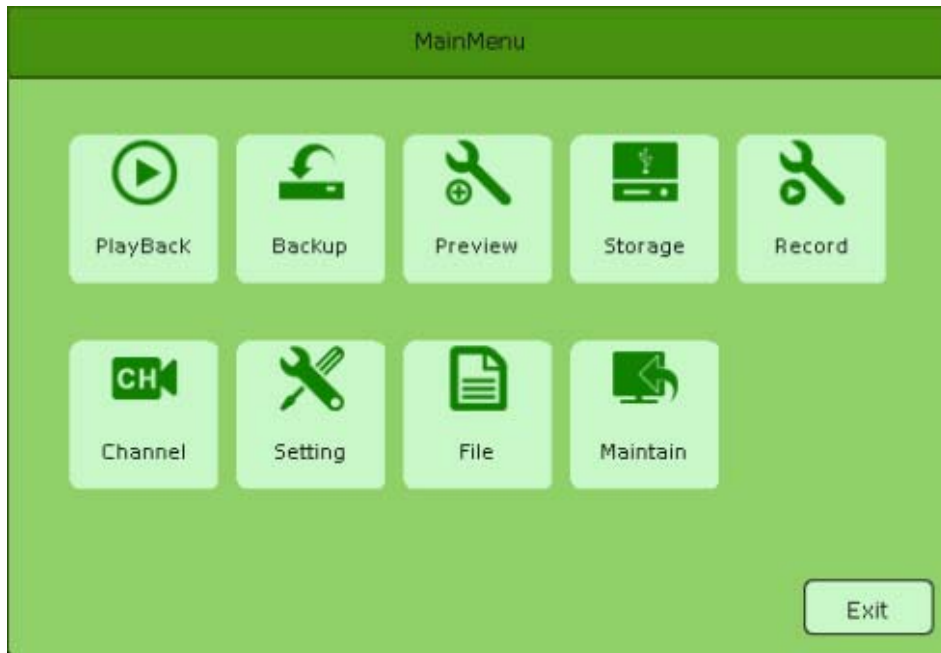
## 8.3 Manually SetTime

Manually set the time of the IPC and NVR synchronization.

# Chapter9 Main Menu

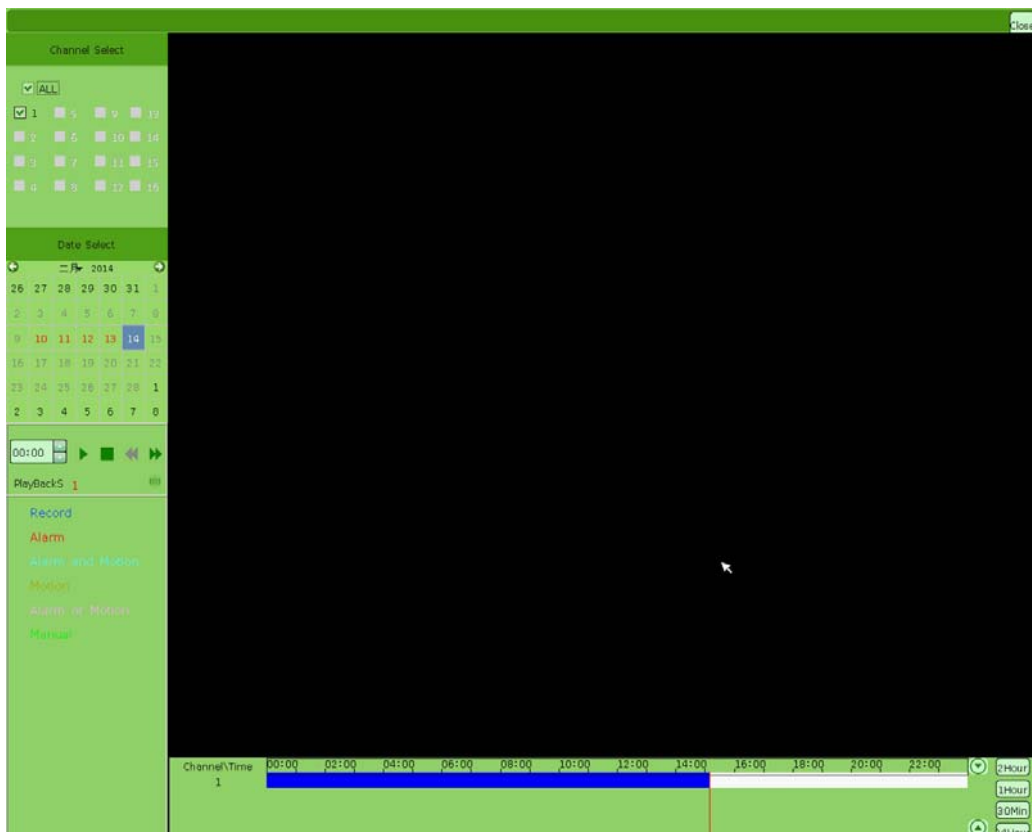
In right click menu, click “MainMenu” then main menu page will be shown as below:





## 9.1 Playback

In main menu, select “Playback” to enter playback interface. Right-click menu also can quickly enter the playback interface. Select channel then record file can be searched automatically, as shown below:

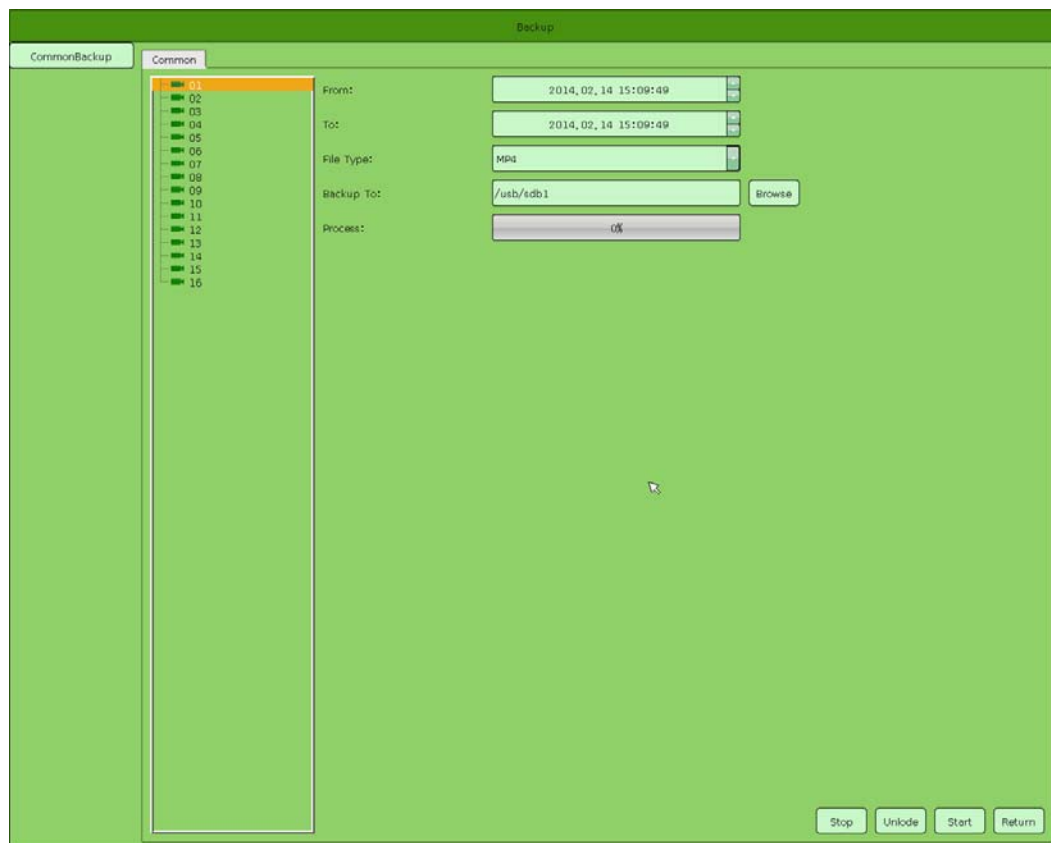


- 1) Play / Pause: Search video file, click Play to start playback , the status changes to pause, click the pause current playback screen.

- 2) Stop: Stop playback.
- 3) Slow: Reduce playback speed (1/2, 1/4, 1/8, 1/16 and 1/32). (no take effect at present)
- 4) Fast: Speed up playback speed (2, 4, 8, 16 and 32).
- 5) Frame play: In normal playback speed , each click of a broadcast frame , screen playback. Double click retrieval location or clicks “Play” then select channel will playback video. Double click the channel you want can full-screen playback.

## 9.2 Backup

Click “Backup” in main menu:

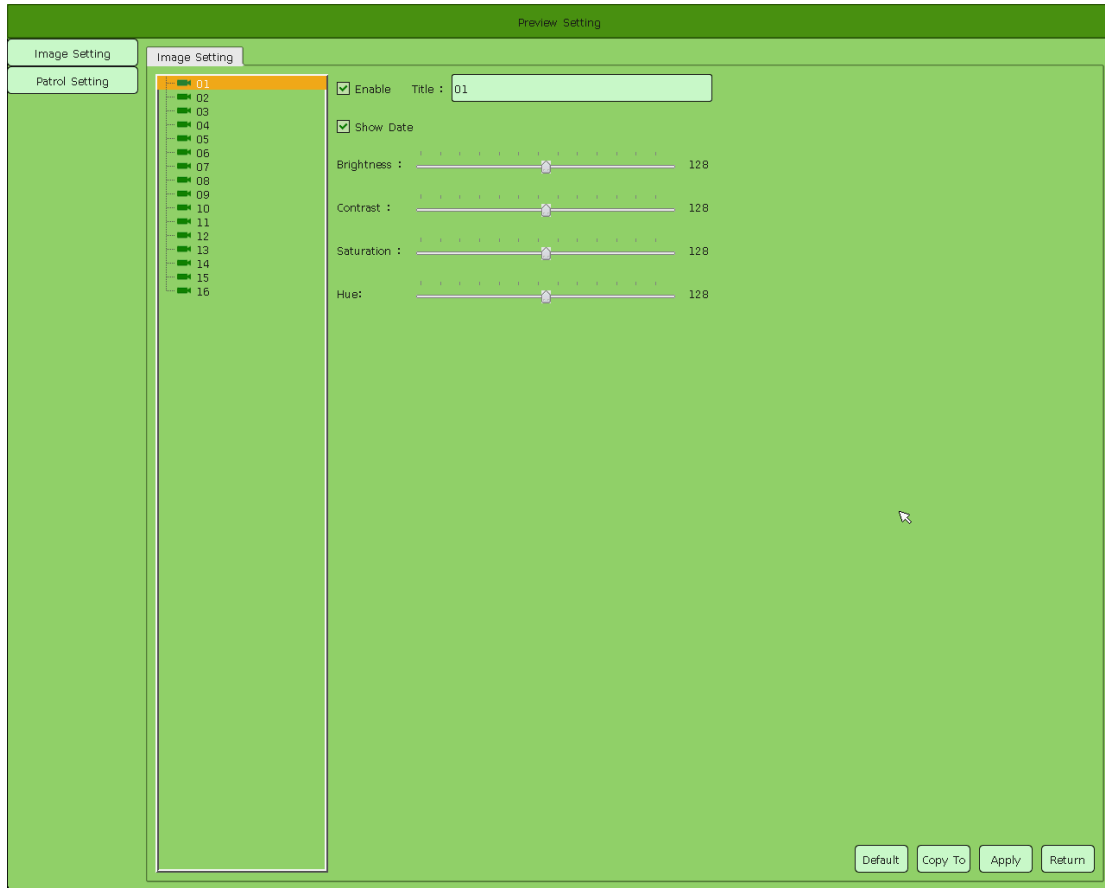


In this page, plug in USB then click “Browse” to detect if USB is distinguished. If it is distinguished correctly, list will display corresponding device information. Select channel, start time and end time, MP4,H264,AVI 3 kinds of file formats to choose. Click “Start” then system will automatically backup record file and display process.

**Explanation: 1.Record backup time can not over 10h.**

## 9.3 Preview

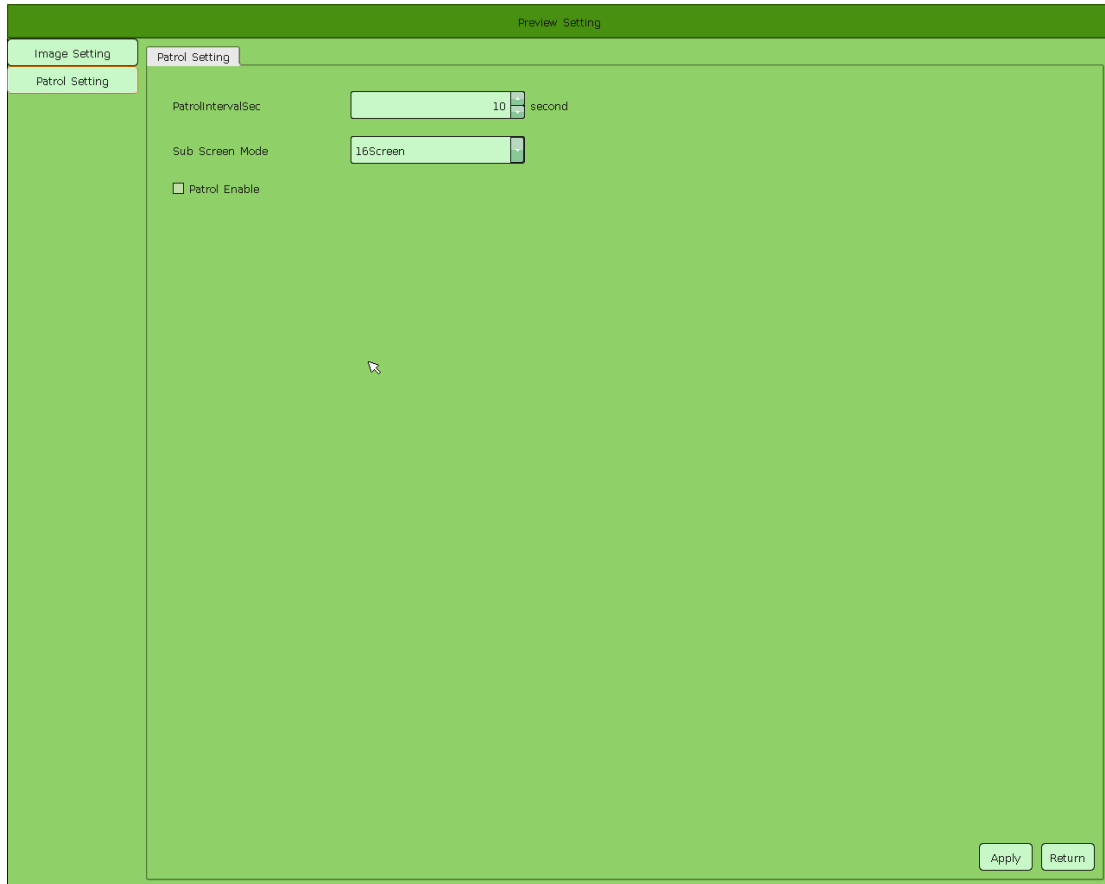
Select “Preview” in main menu, you’ll see:



### 9.3.1 Image Setting

In "Image Setting", you can configure whether to show the title and title Settings of each channel, and whether the OSD display of IPC and image brightness, contrast, saturation, ect.

## 9.3.2 Patrol Setting



The screenshot shows a web-based configuration interface for Patrol Settings. The interface has a green header bar with the text "Preview Setting" on the right. Below the header, there are two tabs: "Image Setting" and "Patrol Setting", with "Patrol Setting" being the active tab. The main content area is green and contains three settings:

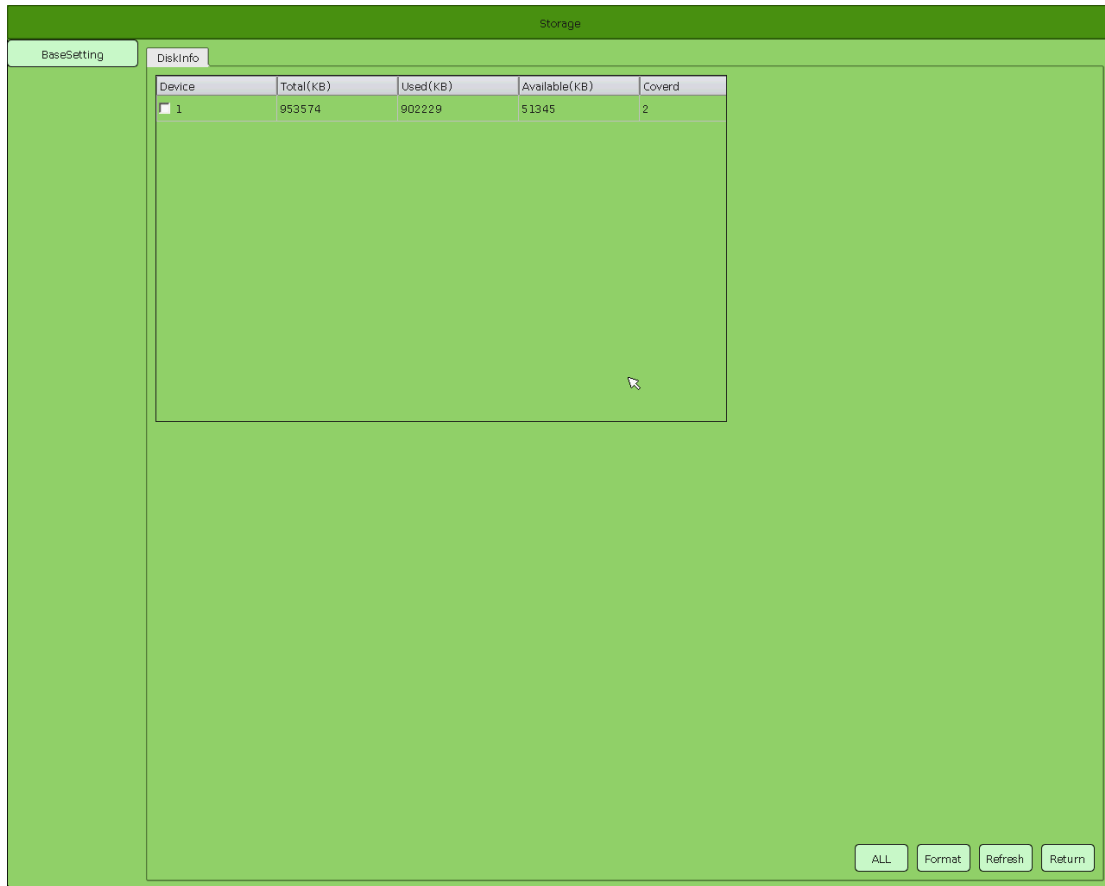
- PatrolIntervalSec**: A numeric input field with the value "10" and a unit dropdown menu set to "second".
- Sub Screen Mode**: A dropdown menu currently showing "16Screen".
- Patrol Enable**: A checkbox that is currently unchecked.

At the bottom right of the main content area, there are two buttons: "Apply" and "Return".

In this page, you can set up the patrol interval time, sub screen mode and whether enable patrol.

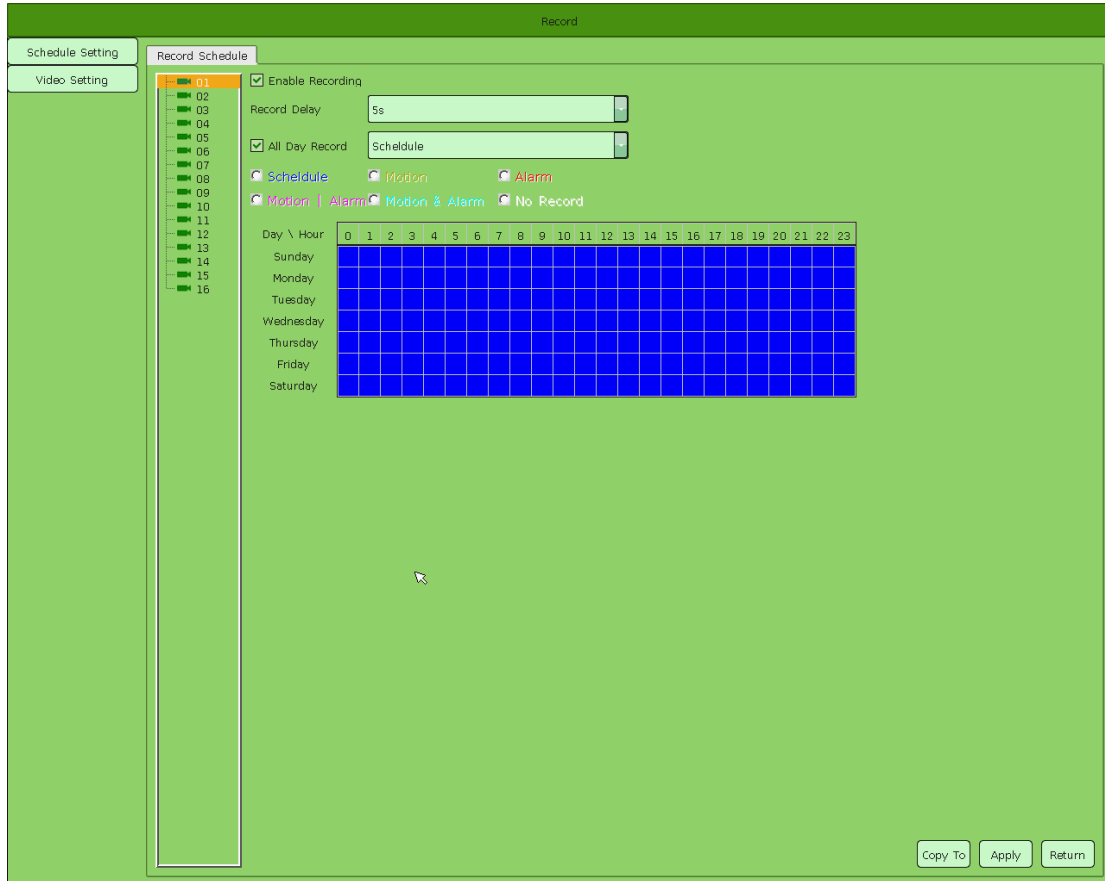
## 9.4 Storage

Select "Storage" in main menu. In storage page, you can look up capacity and free space of current HDD, format HDD. As shown below:



## 9.5 Record

In main menu, select "Record":

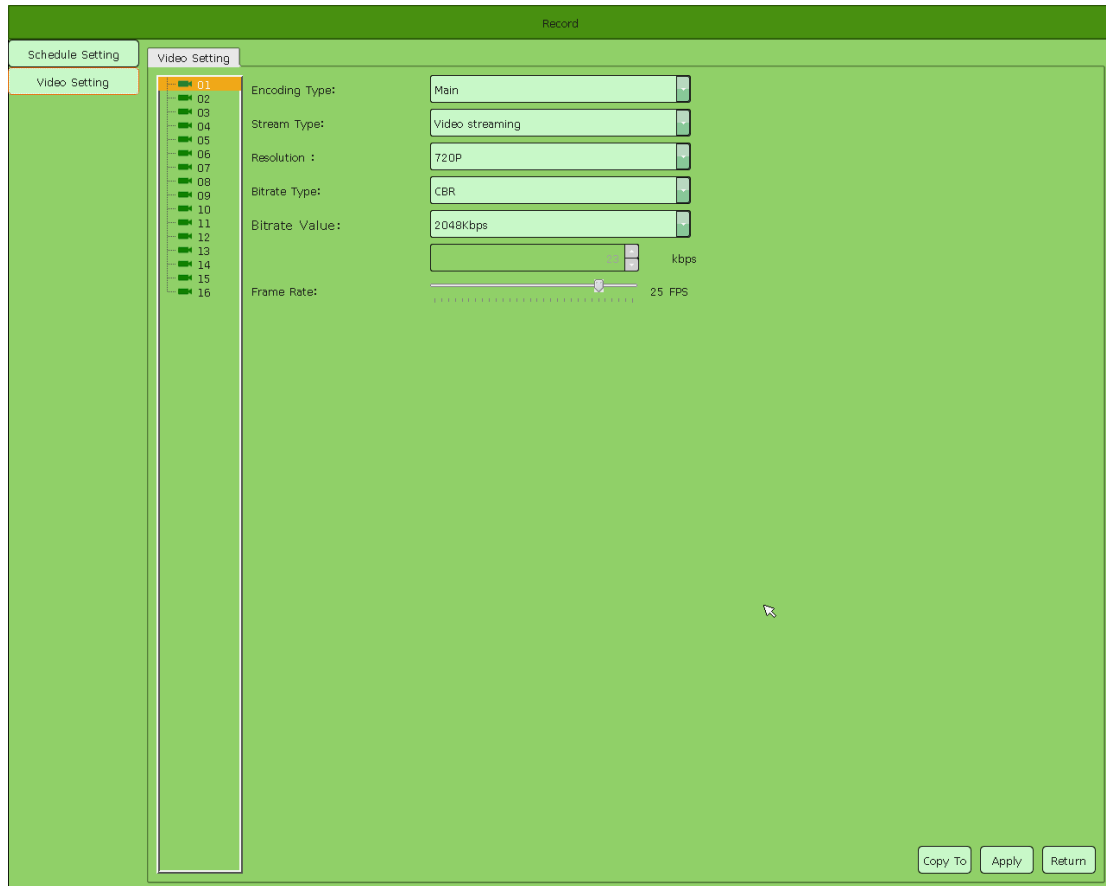


## 9.5.1 Schedule Setting

In "Record Schedule", you can modify schedule record parameters of every channel:

- 1) Enable Recording: Configure to enable recording or not, default is enable.
- 2) Record Delay: Configure record delay time.
- 3) Record Type: Schedule, Motion, Alarm, Montion&Alarm, Motion|Alarm for support, default is scheldule.
- 4) Record schedule Time: Configure record time.

## 9.5.2 Video Setting

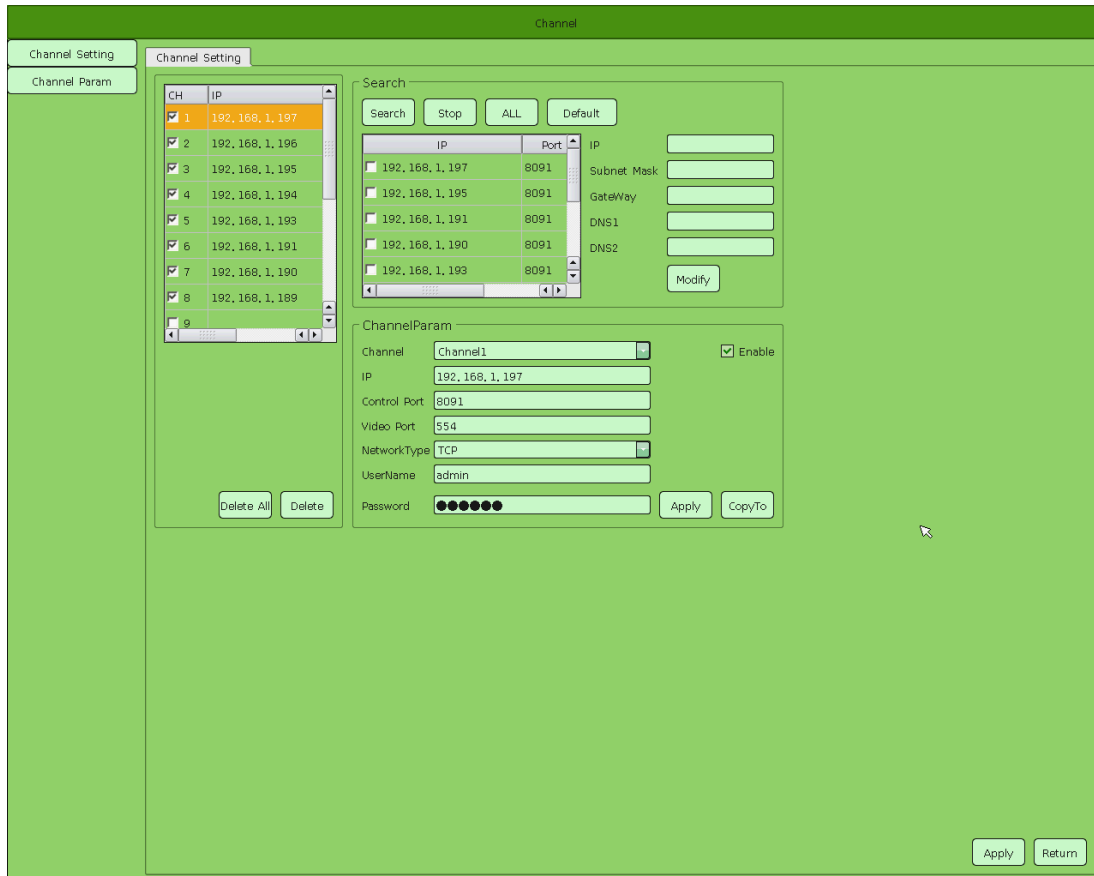


In “Video Setting”, you can configure the channel parameters as below:

- 1) Encoding Type: Main Stream, sub stream for choose.
- 2) Stream Type: Video, Video and Audio.
- 3) Resolution: Main stream resolution type according to the different types of IPC optional different resolution.
- 4) Bitrate Type: CBR and VBR for support.
- 5) Bitrate Value: You can choose different bitrate value, including custom Settings.
- 6) Frame Rate: select different value in combobox.

## 9.6 Channel

In main menu, select “Channel”:



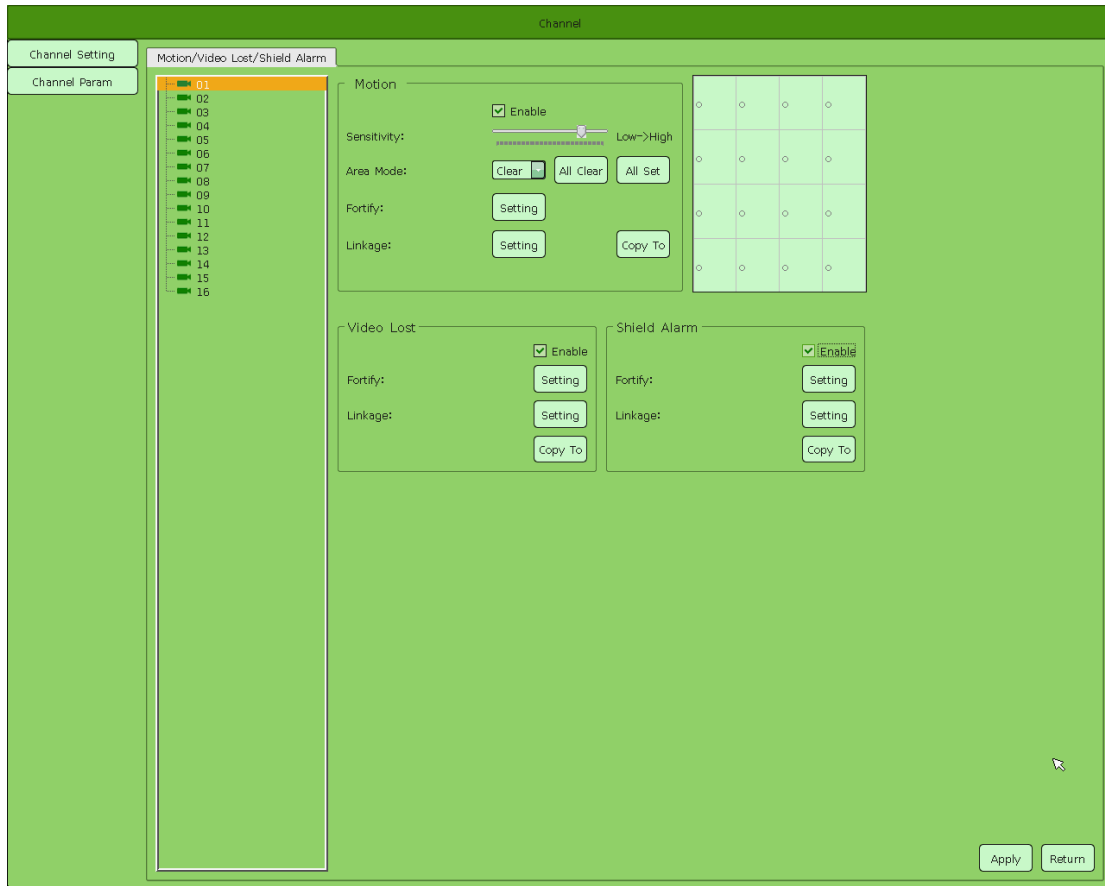
## 9.6.1 Channel Setting

“Channel Setting” has the same function with the Chapter 8.1 Manual configure IP channel through right click menu, not repeat. For more information, see section Chapter [8.1](#).

## 9.6.2 Channel Param

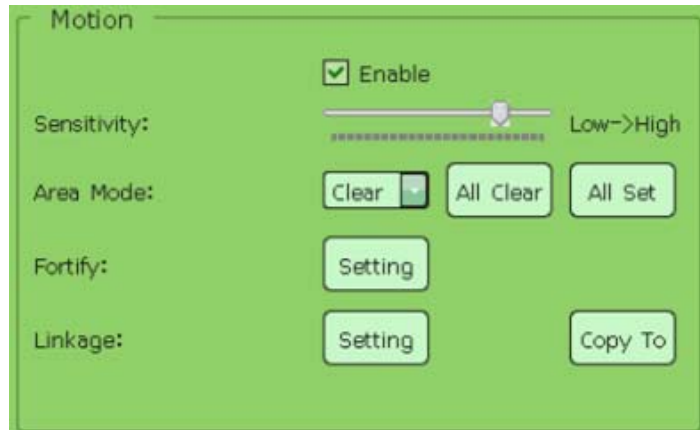
In “Channel Param”, you can modify configure parameters of every channel, as shown below:



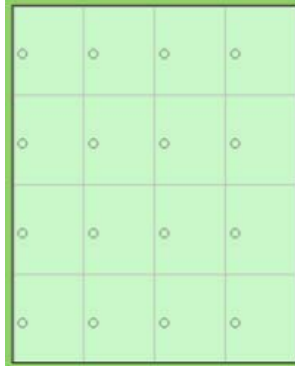


### 9.6.2.1 Motion

In "Motion", you can modify motion parameters of every channel.



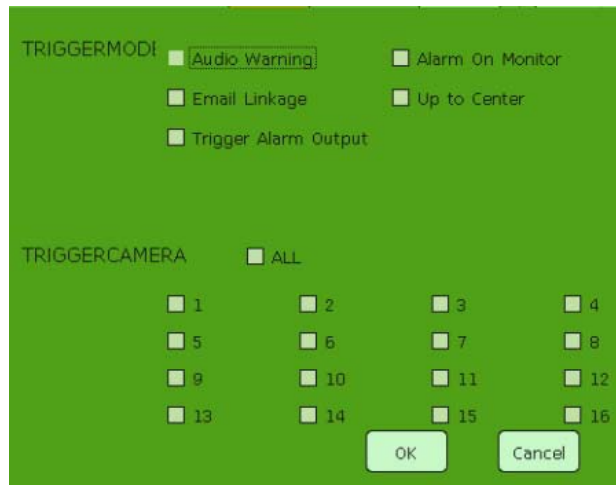
- 1) Enable: Enable motion detection;
- 2) Sensitivity: Adjust sensitivity;
- 3) Area Mode: Set up motion detection area, default is 4\*4 is enable, as shown below:



4) Fortify: set up defense time, as shown below:



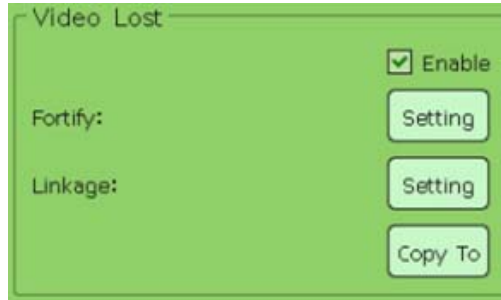
5) Linkage: Select linkage mode, as shown below:



**Explanation: Linkage not to take effect**

### 9.6.2.2 Video Lost

In “Video Lost”, you can modify video lost parameters of every channel.



- 1) Enable: Enable video lost;
- 2) Fortify: Set up defense time;
- 3) Linkage: Select Linkage mode.

**Explanation: Linkage not to take effect**

### 9.6.2.3 Shield Alarm

In “Shield Alarm”, you can modify shield alarm parameters of every channel.

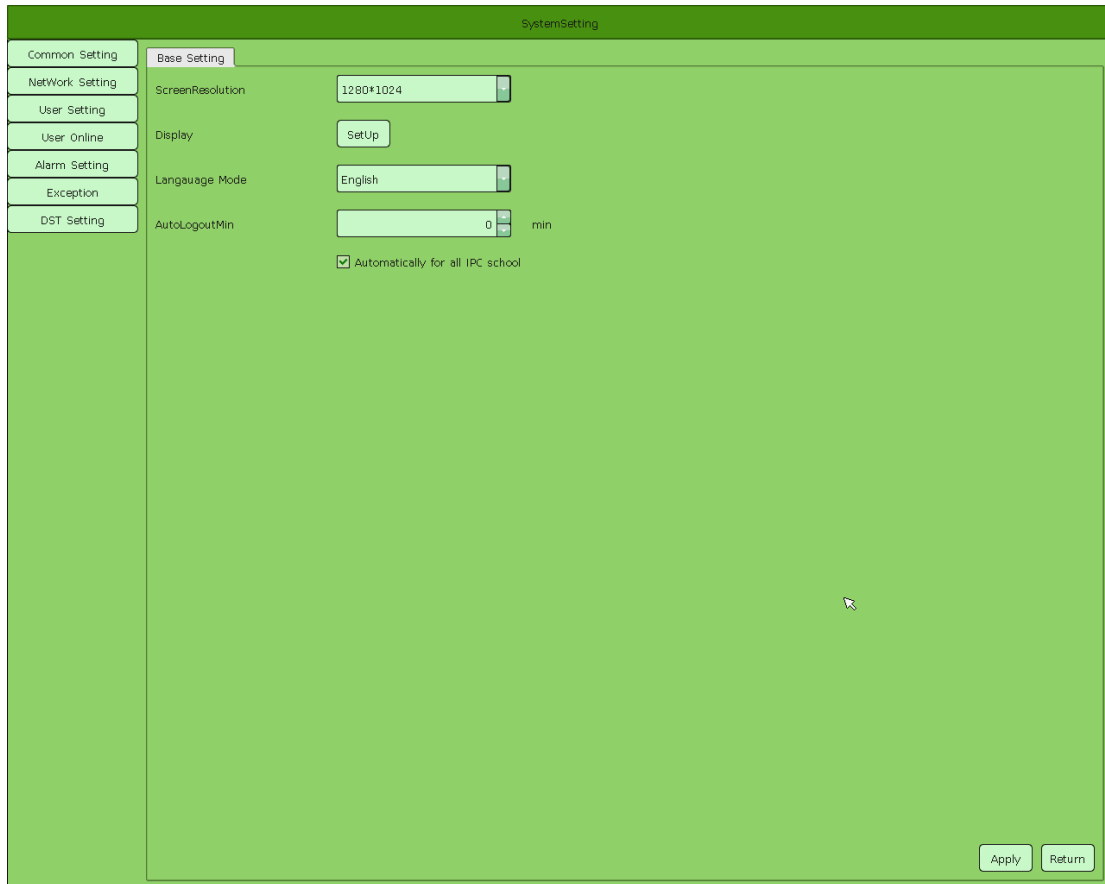


- 1) Enable: Enable Video Tampering;
- 2) Fortify: Set up defense time;
- 3) Linkage: Select linkage mode.

**Explanation: Linkage not to take effect**

## 9.7 Setting

In main menu, click “Setting”, as shown below:



## 9.7.1 Common Setting

In “Common Setting”, you can configure the display parameters as below:

- 1) Screen Resolution: Select resolution as needed. (Just support for Automatic identification of the resolution of the display)
- 2) Display: Can display brightness, contrast, saturation, hue, and sharpness settings.
- 3) Language: Support several languages (such as simple Chinese, traditional Chinese, English and etc).
- 4) Sub Screen mode: There is 1 Screen, 4 Screen, 9 Screen and 16 Screen (according to NVR and pattern).
- 5) Auto Logout: If not operate NVR in setting time, user will automatically logout. (no take effect at present).

**Explanation: Check Enable automatic correction for all IPC , the IPC will be timed automatic time synchronization.**

## 9.7.2 Network Setting

In “Network Setting”, you can configure the parameters as below:

- 1) DHCP: After enable the DHCP function, set static IP address is not available, according to the DHCP server automatically access to a valid IP address.
- 2) IP Address: Input corresponding digital number to modify IP address.
- 3) Subnet Mask: Input corresponding IP subnet mask.
- 4) Default gateway: Input corresponding gateway address.
- 5) Primary DNS Address: Enter the local network operators configure DNS service address.
- 6) Secondary DNS Address: Enter the local network operators configure DNS service alternate address .
- 7) MAC: Display physical address of current network interface.
- 8) Remote Port: Input corresponding device port(default is 5050).
- 9) HTTP Port: Input corresponding port(default is 80).
- 10) Multicast Address: Input corresponding multicast address.

**Explanation: When the network parameters change will pop-up prompts whether or not to manually or automatically IP channel.**

### 9.7.2.1 Platform

In “Management Platform” page, you can set up whether access UC2 video surveillance client and platform server, as shown below:

ManagementPlatform

PlatformSetup

Enable

IP: 192.168.1.2

Port: 10001

UC Setup

Enable

IP: 0.0.0.0

Port: 556

Phone Server Setup

Enable

IP: 0.0.0.0

Port: 5554

OK Cancel

- 1) Platform server access: Click “Enable” to enable it and input server address, port (default is 10001).
- 2) UC2 client access: Click “Enable” to enable it, and input the IP address and port (default is 556).
- 3) Phone Server access: Click “Enable” to enable it and input IP address, port (default is 5554).

### 9.7.3 P2P Setting

In “P2P Setting”, you can enable P2P to access cloud server, as shown below:

The screenshot shows a web-based configuration interface titled "SystemSetting". On the left, there is a vertical menu with buttons for "Common Setting", "NetWork Setting", "User Setting", "User Online", "Alarm Setting", "Exception", and "DST Setting". The main area is divided into three tabs: "Base Setting", "P2P Setting", and "Email Setting". The "P2P Setting" tab is active and contains the following settings:

- Enable P2P
- Server Name:
- Domain:

At the bottom right of the main area, there are two buttons: "Apply" and "Return".

- 1) Enable P2P: Enable P2P ,default is enable.
- 2) Server Name: Configure the access P2P server, default is [www.seetong.com](http://www.seetong.com)
- 3) Domain: Don't need to configure, access the P2P server normal and after registration will automatically display.

## 9.7.4 Email Setting

In "Email setting", you can set up alarm linkage email.

The screenshot shows the 'SystemSetting' interface with the 'Email Setting' tab selected. The sidebar on the left lists various settings categories. The main content area includes the following fields and options:

- Email Address:** A text input field.
- Password:** A text input field.
- PWD Confirm:** A text input field, with checkboxes for  SSL and  Attachment.
- Sending interval:** A text input field.
- SMTP Sever:** A text input field.
- SMTP Port:** A text input field with the value '0'.
- Contact:** A button.
- Apply:** A button at the bottom right.
- Return:** A button at the bottom right.

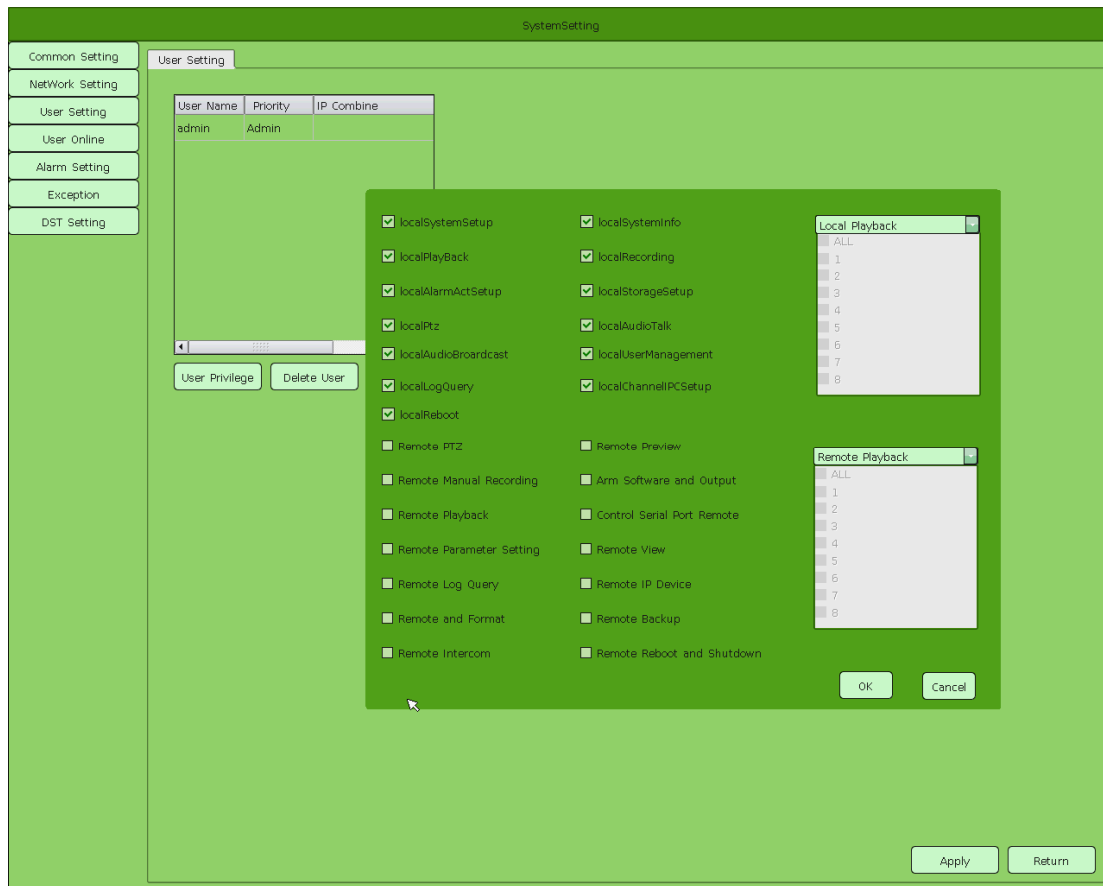
- 1) Email Address: Configure the email address, for example [nvr@163.com](mailto:nvr@163.com)
- 2) Password: Configure email password.
- 3) PWD confirm: Configure email password; If your email needs to secure encrypted authentication is required to check the SSL, check the “attachment” pictures send email attachment.
- 4) Sending interval: Configure email password;
- 5) SMTP Sever: Configure email server address, for example smtp.163.com.
- 6) SMTP Port: Configure email server port, for example 25.

**Explanation: The email service not to take effect.**

## 9.7.5 User Setting

In “User Setting” interface, you can add, modify and delete user, allocate privilege to specific user, as shown below:





Explanation: User Privilege not to take effect.

## 9.7.6 User Online

In “User Online”, you can see current NVR user’s connection circumstance.

SystemSetting

Common Setting

NetWork Setting

User Setting

User Online

Alarm Setting

Exception

DST Setting

User Online

User Name	Login Type	Login Time	IP
admin	Local	2014-02-14...	127.0.0.1
admin	P2P	2014-02-14...	0.0.0.0
admin	P2P	2014-02-14...	0.0.0.0
admin	P2P	2014-02-14...	0.0.0.0
	P2P		0.0.0.0

Refresh Return

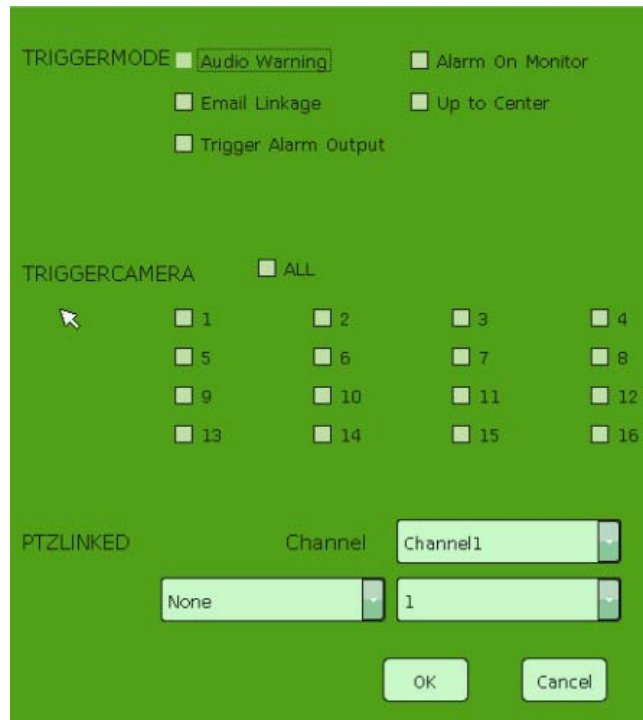
## 9.7.7 Alarm Setting

In “Alarm Setting” interface, you can set up alarm input and alarm output, as shown below:

### 9.7.7.1 Alarm Input

In “Alarm Input” page, you can set up the alarm input parameters as below:

- 1) Alarm Input: Select the alarm input;
- 2) Alarm Name: Set up the alarm name;
- 3) Alarm Status: Normally Open, Normally Close for choose.
- 4) Enable alarm handle;
- 5) Alarm Schedule: Set up defense time;
- 6) Linkage: Select linkage mode, as shown below:



Explanation: Not to take effect

### 9.7.7.2 Alarm Output

In “Alarm Output” page, you can set up alarm output parameters as below:

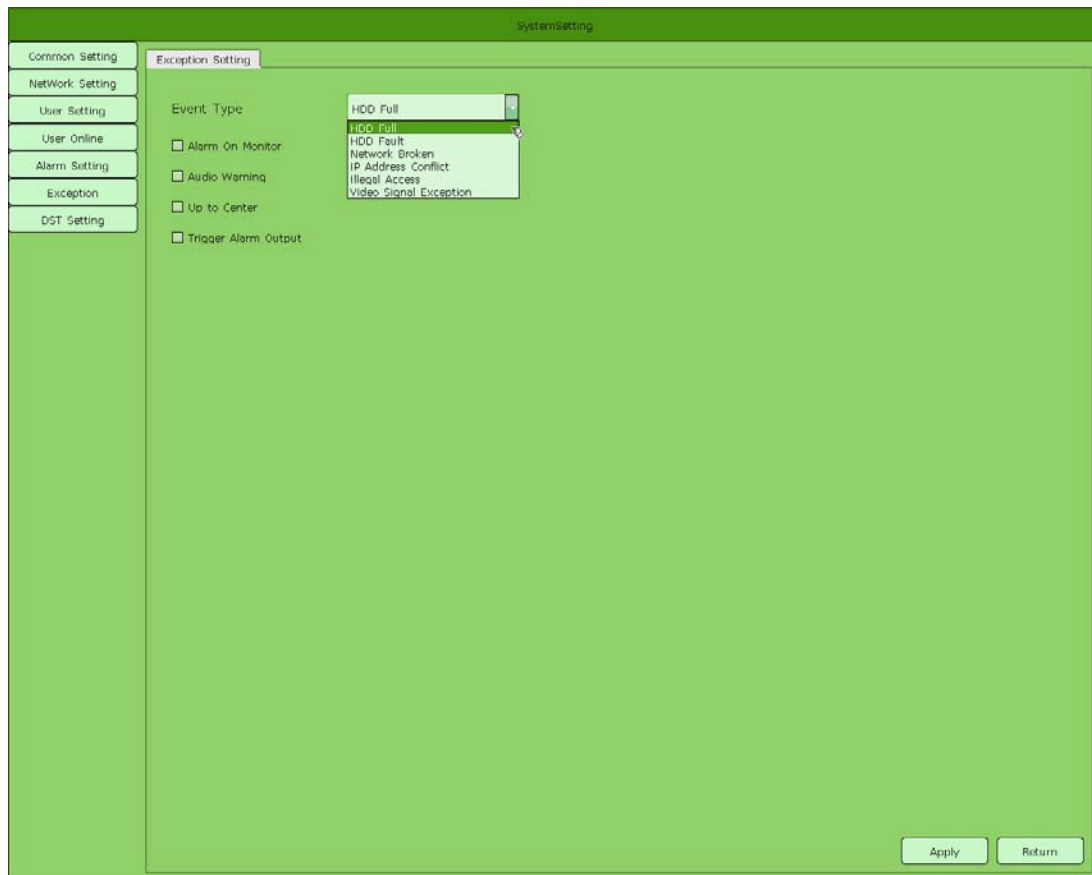


- 1) Alarm Output: Select alarm output.
- 2) Delay: Set up alarm output delay time;
- 3) Alarm Schedule: Set up defense time.

Explanation: Not to take effect

## 9.7.8 Exception

In “Exception” page, you can set up according to exception type, as shown below:

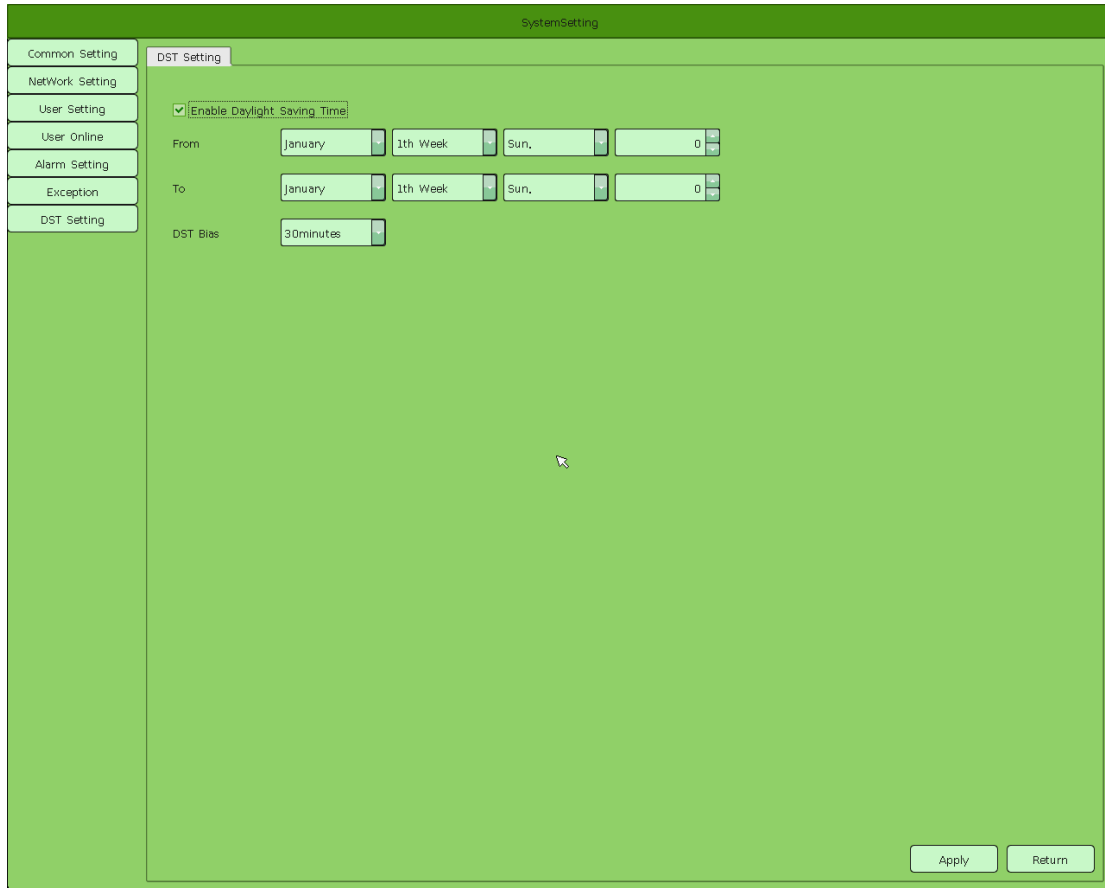


- 1) Event type: HDD full, HDD fault, Network broken, IP address conflict, Illegal access, Video signal exception for choose.
- 2) Different alarm for choose.

**Explanation: Not to take effect**

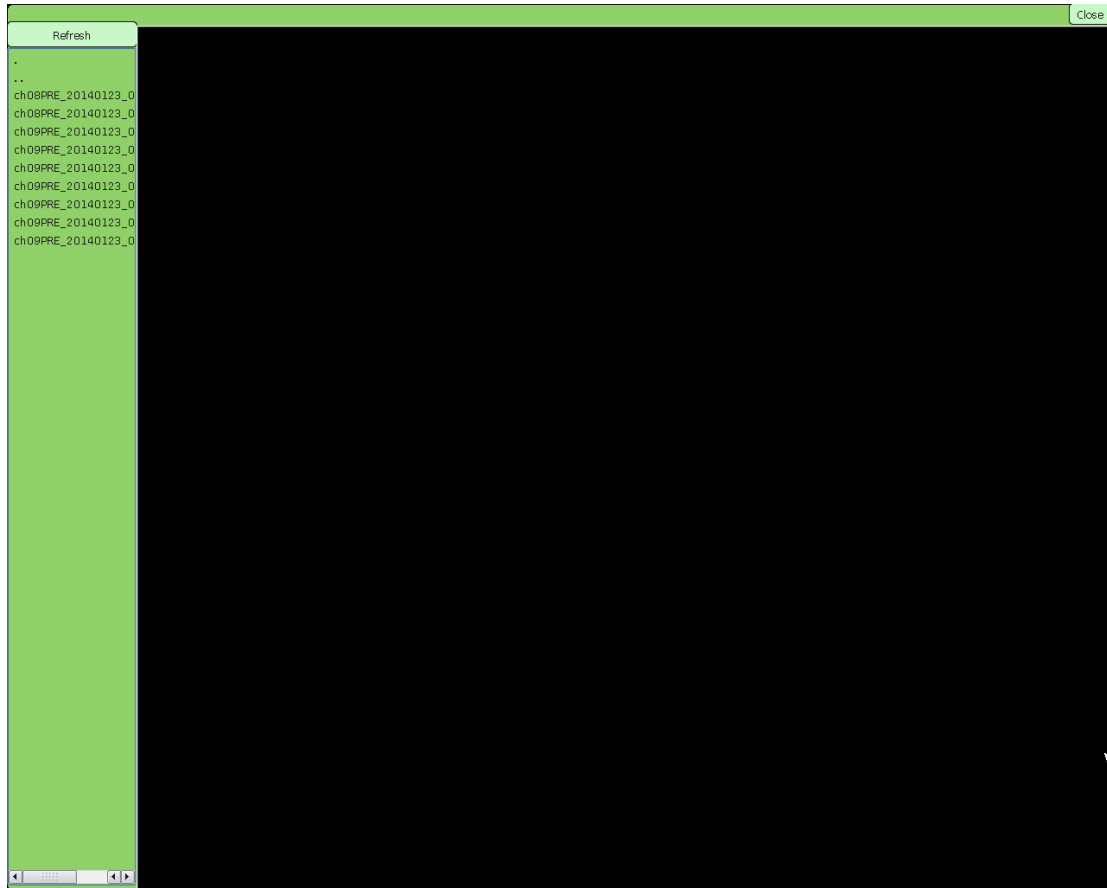
### 9.7.9 DST Setting

In “DST Setting”, you can enable and set up parameters of daylight saving time.



## 9.8 File

In main menu, click "File" then you come to the file manager page. In this page, file lists column will display backup file stored in USB and local snapshot picture. As shown below:



## 9.9 Maintain

In main menu, select “Maintain” to enter the system maintain page, as shown below:

SystemMaintenance

System Info	System Info
Code Stream	Master Version
Alarm	Hardware Version
EventLog	Compile Time
System Upgrade	Starting Time
Config Operation	Run Time
Auto Reboot	Device Name
	Device ID
	RS485
	Device Serial No
	Channel Number
	Alarm Input Number
	Alarm Output Number
	HDD Number
	RSystem Value
	Stream Type
	Current Time
	Setting Time
	Time Zone

Apply Return

## 9.9.1 System Info

In “System Info”, you can see and modify basic information of device, as shown below:



Master Version	1.0.0
Hardware Version	3302a
Compile Time	2014, 02, 13 15:07
Starting Time	2014, 02, 14 15:00
Run Time	0 days, 0 hours, 25 mins, 2 secs
Device Name	NVR
Device ID	0
RS485	PTZ Control
Device Serial No	28275A180CA0ECC0
Channel Number	16
Alarm Input Number	
Alarm Output Number	
HDD Number	
RSystem Value	PAL
Stream Type	16*720P
Current Time	2014, 02, 14 15:22:13
Setting Time	2014, 02, 14 15:22:08
Time Zone	TIMEZONE_EAST_08

- 1) Device Name: Support user-define NVR name.
- 2) Device ID: Configure device ID of the NVR.
- 3) RS485: Configure RS485 interface external keyboard or yuntai control function.
- 4) Device Serial No: Display the unique serial number of NVR.
- 5) Chanel Number: According to different types of NVR corresponding to the number of the channel.
- 6) Alarm Input Number: Display the alarm input number, just NVR support can enable.
- 7) Alarm Output Number: Display the alarm output number, just NVR support can enable.
- 8) HDD number: Display the number of the HDD access successfully.
- 9) Rsystem Value: Configure the IPC support video formats.
- 10) Stream Type: Configure the resolution of NVR and the biggest ability to access the IPC; one stream type one time.
- 11) Current Time: Display the current system time.
- 12) Setting Time: Configure system time of NVR.
- 13) Time Zone: Configure NVR's time zone, default is TIMEZONE\_EAST\_08.

## 9.9.2 Code Stream Information

In “Code Stream Information”, you can look up stream information of every channel. Not support dynamic refresh.

SystemMaintenance

System Info

Code Stream

Alarm

EventLog

System Upgrade

Config Operation

Auto Reboot

Code Stream Information

CH	Main Stream	Sub Stream	Main Stream	Sub Stream
1	2039(kb/s)	572(kb/s)	896(MB/H)	251(MB/H)
2	1980(kb/s)	727(kb/s)	870(MB/H)	319(MB/H)
3	2053(kb/s)	565(kb/s)	902(MB/H)	248(MB/H)
4	1913(kb/s)	585(kb/s)	840(MB/H)	257(MB/H)
5	1584(kb/s)	393(kb/s)	696(MB/H)	172(MB/H)
6	0(kb/s)	0(kb/s)	0(MB/H)	0(MB/H)
7	1723(kb/s)	414(kb/s)	757(MB/H)	182(MB/H)
8	1647(kb/s)	416(kb/s)	723(MB/H)	183(MB/H)
9	1616(kb/s)	407(kb/s)	710(MB/H)	179(MB/H)
10	0(kb/s)	0(kb/s)	0(MB/H)	0(MB/H)
11	0(kb/s)	0(kb/s)	0(MB/H)	0(MB/H)
12	0(kb/s)	0(kb/s)	0(MB/H)	0(MB/H)
13	0(kb/s)	0(kb/s)	0(MB/H)	0(MB/H)
14	0(kb/s)	0(kb/s)	0(MB/H)	0(MB/H)
15	0(kb/s)	0(kb/s)	0(MB/H)	0(MB/H)

Refresh Return

### 9.9.3 Alarm

In “Alarm” page, all alarm information will be displayed in “Alarm” list. After set up alarm , you can look up the alarm information by double click the icon “🔔”,As shown below:

SystemMaintenance

System Info

Code Stream

Alarm

EventLog

System Upgrade

Config Operation

Auto Reboot

Alarm

Serial	Alarm Time	Event Type	Sub Type	Port/Channel	Describe
1	2014-02-14...	Head Alarm	Motion Detect	1	motion detec
2	2014-02-14...	Head Alarm	Motion Detect	1	motion detec
3	2014-02-14...	Head Alarm	Motion Detect	1	motion detec
4	2014-02-14...	Head Alarm	Motion Detect	1	motion detec
5	2014-02-14...	Head Alarm	Motion Detect	1	motion detec
6	2014-02-14...	Head Alarm	Motion Detect	1	motion detec
7	2014-02-14...	Head Alarm	Motion Detect	1	motion detec
8	2014-02-14...	Head Alarm	Motion Detect	1	motion detec

## 9.9.4 Event Log

In “Event log” interface, you can view event log after NVR start, not support query history at currently. As shown below:

SystemMaintenance

System Info

Code Stream

Alarm

EventLog

System Upgrade

Config Operation

Auto Reboot

EventLog

```

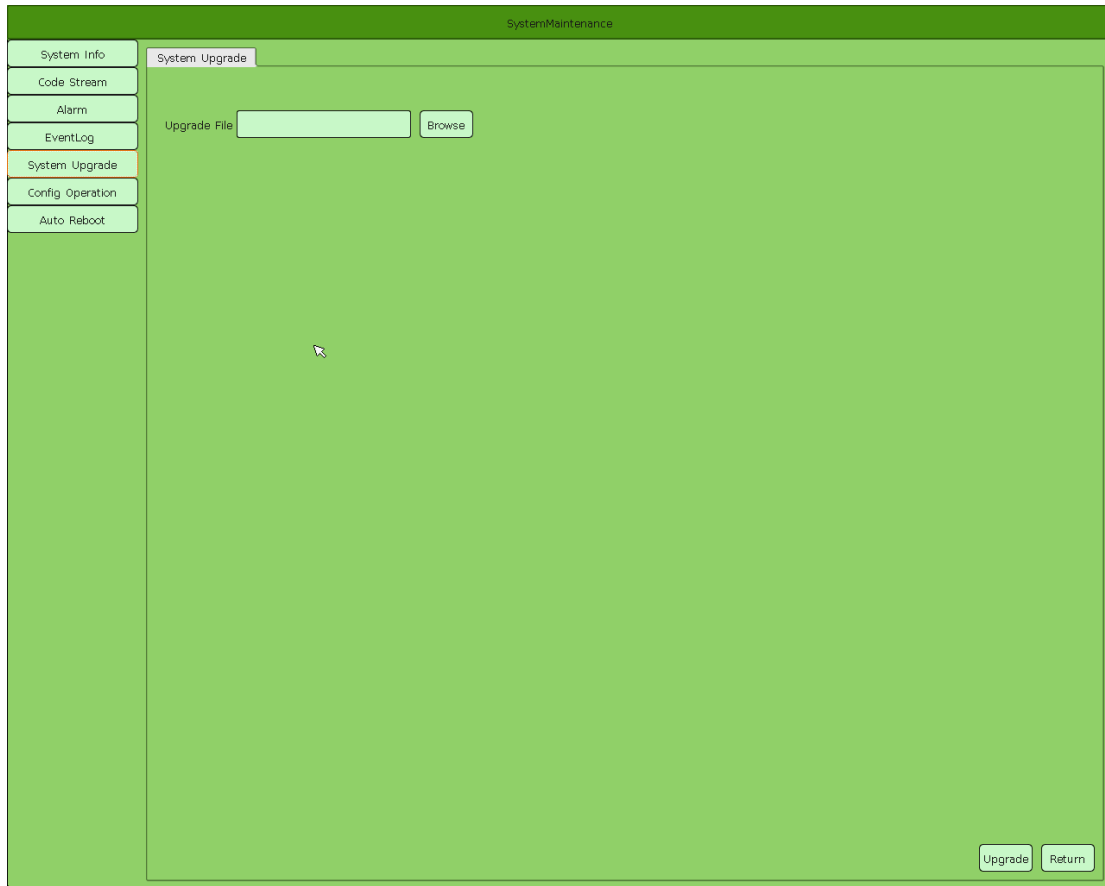
2014-01-23 17:56:41 NVR_START. |
2014-01-23 17:56:41 NVR_START. |
2014-01-23 17:56:52 mount fail: /dev/sdb|
2014-01-24 07:37:13 [channo(6)stream(1) no stream|
2014-01-24 09:40:09 [channo(8)stream(1) no stream|
2014-01-24 11:42:49 [channo(4)stream(1) no stream|
2014-01-24 13:29:43 [channo(6)stream(1) no stream|
2014-01-24 15:11:57 [channo(6)stream(1) no stream|
2014-01-24 15:48:41 [channo(6)stream(1) no stream|
2014-01-24 16:34:13 [channo(1)stream(1) no stream|
2014-01-24 16:41:17 [channo(4)stream(1) no stream|
2014-01-24 17:28:14 [channo(3)stream(1) no stream|
2014-01-24 17:46:14 [channo(6)stream(1) no stream|
2014-01-24 18:43:24 [channo(6)stream(1) no stream|
2014-01-24 18:51:49 [channo(1)stream(1) no stream|
2014-01-24 18:06:45 [channo(4)stream(1) no stream|
2014-01-24 19:36:19 [channo(4)stream(1) no stream|
2014-01-24 19:36:25 [channo(4)stream(1) no stream|
2014-01-24 19:41:23 [channo(7)stream(1) no stream|
2014-01-24 20:08:06 [channo(4)stream(1) no stream|
2014-01-24 20:23:39 [channo(4)stream(1) no stream|
2014-01-24 20:23:44 [channo(4)stream(1) no stream|
2014-01-24 22:51:42 [channo(6)stream(1) no stream|
2014-01-24 23:15:47 [channo(1)stream(1) no stream|
2014-01-25 00:10:36 [channo(5)stream(0) no stream|
2014-01-25 02:00:16 [channo(2)stream(0) no stream|
2014-01-25 02:11:49 [channo(2)stream(0) no stream|
2014-01-25 02:15:30 [channo(5)stream(0) no stream|
2014-01-25 04:24:36 [channo(6)stream(0) no stream|
2014-01-25 05:48:55 [channo(7)stream(0) no stream|
2014-01-25 05:49:00 [channo(7)stream(0) no stream|
2014-01-25 06:08:29 [channo(7)stream(0) no stream|
2014-01-25 07:09:30 [channo(4)stream(0) no stream|

```

Refresh Return

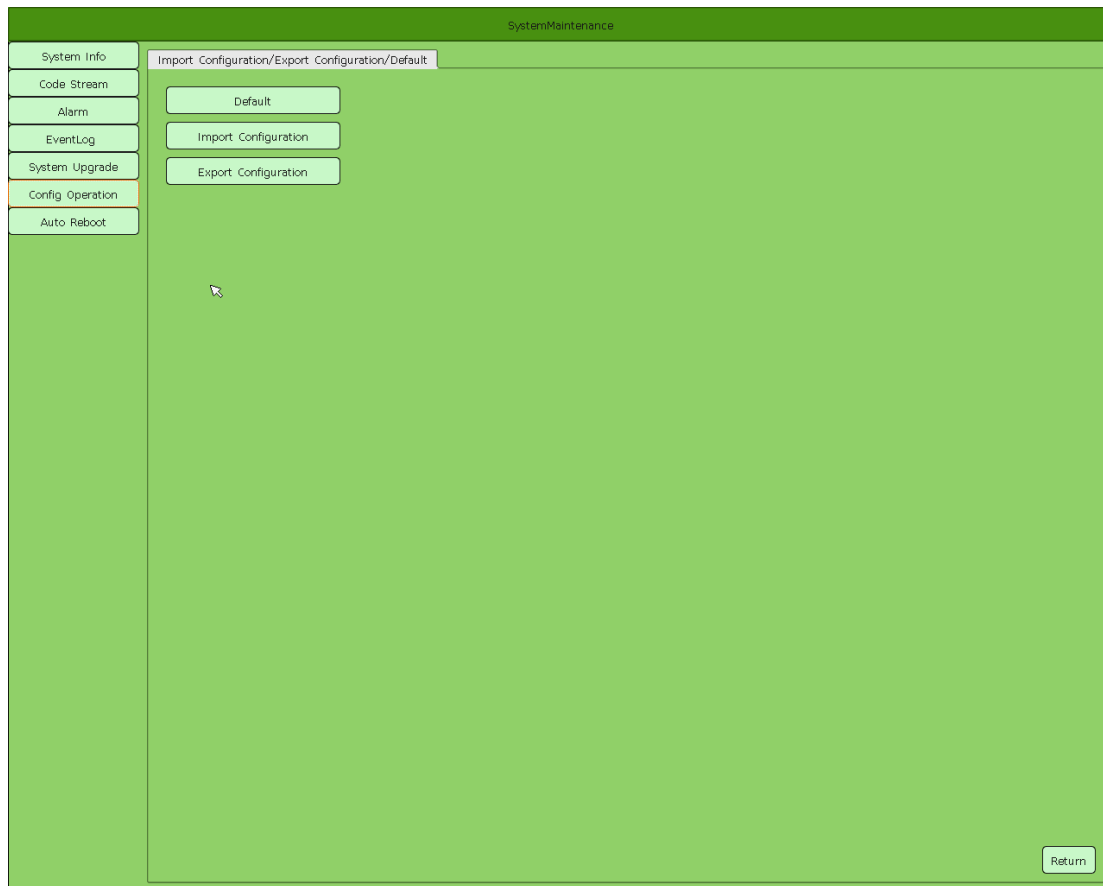
## 9.9.5 System Upgrade

In “System Upgrade”, insert the USB storage device, browse the corresponding NVR upgrade file, click on “Update” to update NVR.



## 9.9.6 Config Operation

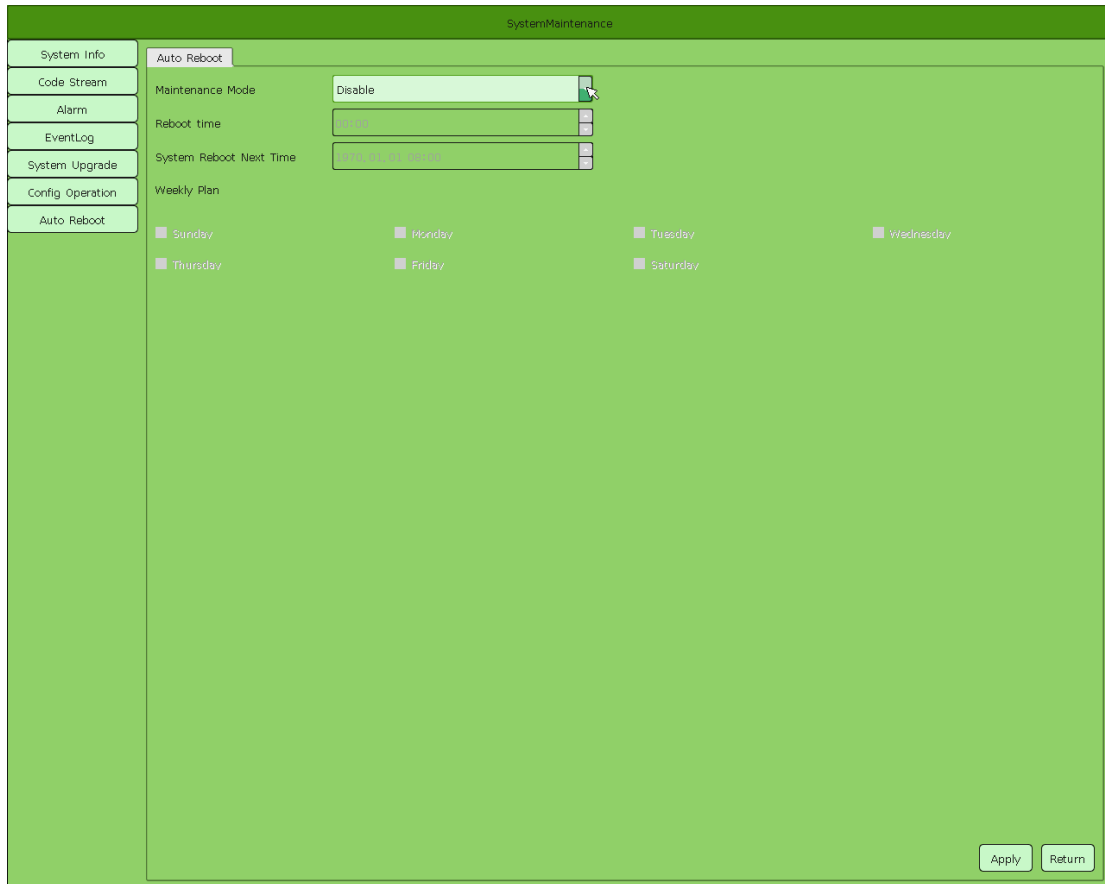
In “Config Operation” page, the configuration you can operate as shown below:



- 1) Default: Click “Default” to restore NVR to factory default.
- 2) Import Configuration: Import external storage device’s configuration file.
- 3) Export Configuration: Export current configuration to NVR’s external storage device.

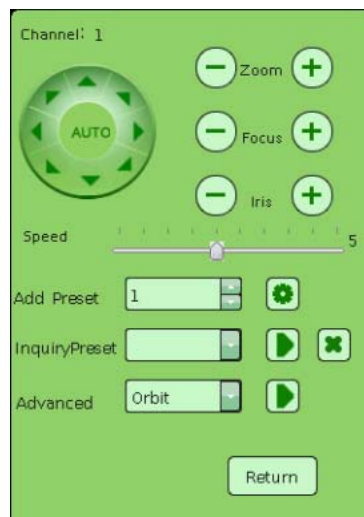
### 9.9.7 Auto Reboot

In “Auto reboot”, choose maintenance mode then NVR will reboot according to specific mode, as shown below:



## Chapter10 PTZ

In right click menu, click “PTZ” then PTZ panel will be displayed, as shown below:

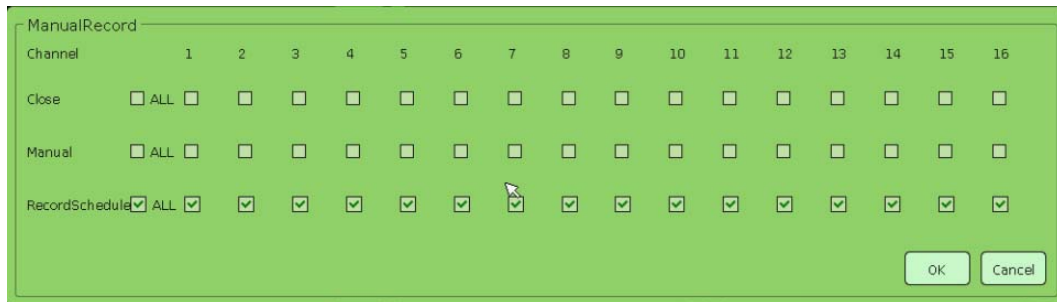


- 1) Set up “Preset”: move camera to needed position through PTZ control then select a preset number in “Preset” combobox, click “Setting” button.  
 Call “Preset”: select preset number in “Preset” combobox then click “Call”.  
 Delete “Preset”: select a preset number in “Preset” combobox, click “Delete” button.

2) Set “Advanced”: when you set up the function in "advanced" drop-down list corresponding to the corresponding feature, which is required for PTZ cooperate to perform.

## Chapter11 Record

Manual record has the highest prior level, execute “manual record” then corresponding channel will start common record, as shown below:




## Chapter12 Boot Wizard

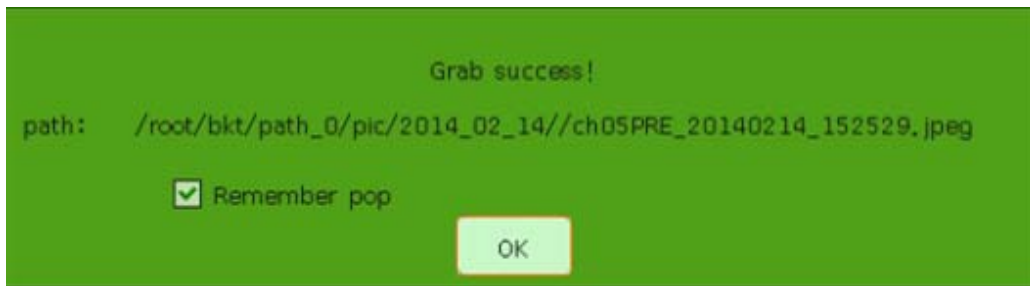
In the right-click menu to perform "boot wizard", according to the wizard prompt respectively carry out the resolution, such as language, network, channel configuration.



## Chapter13 Capture

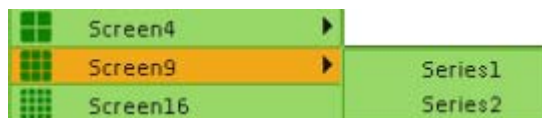
In preview channel, click “” button can snapshot channel’s picture. Captured picture is stored in hard drive, and support to see from the “File”.





## Chapter 14 Window Ratio/Partition

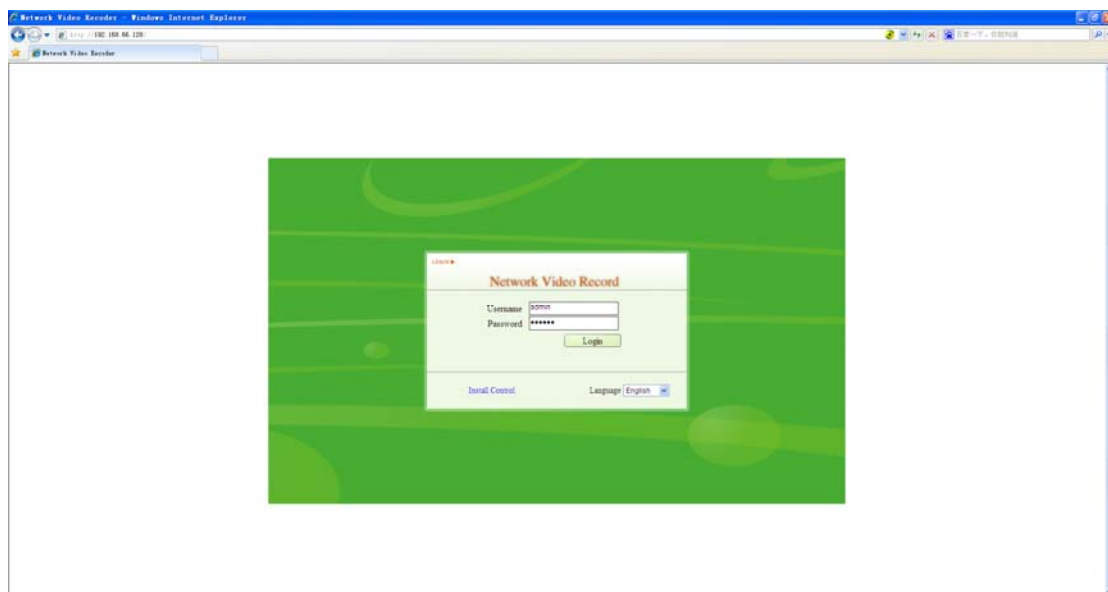
Right click menu, you can set up 4screen/9screen/16screen according to model of NVR.



## Chapter 15 Remote Connection

### 15.1 IE connection

In the address bar enter the IP address of the NVR and HTTP port(http port 80 , then do not need to add), for example <http://192.168.1.188:81>. The user name, password is the same as the local login NVR. If you can not install IE controls, open IE- tools -Internet Options - Security - Custom – “Download unsigned controls” and “safe for scripting of ActiveX controls Initialize and marked” select “prompt”, or download control installation .



## 15.2 P2P connection

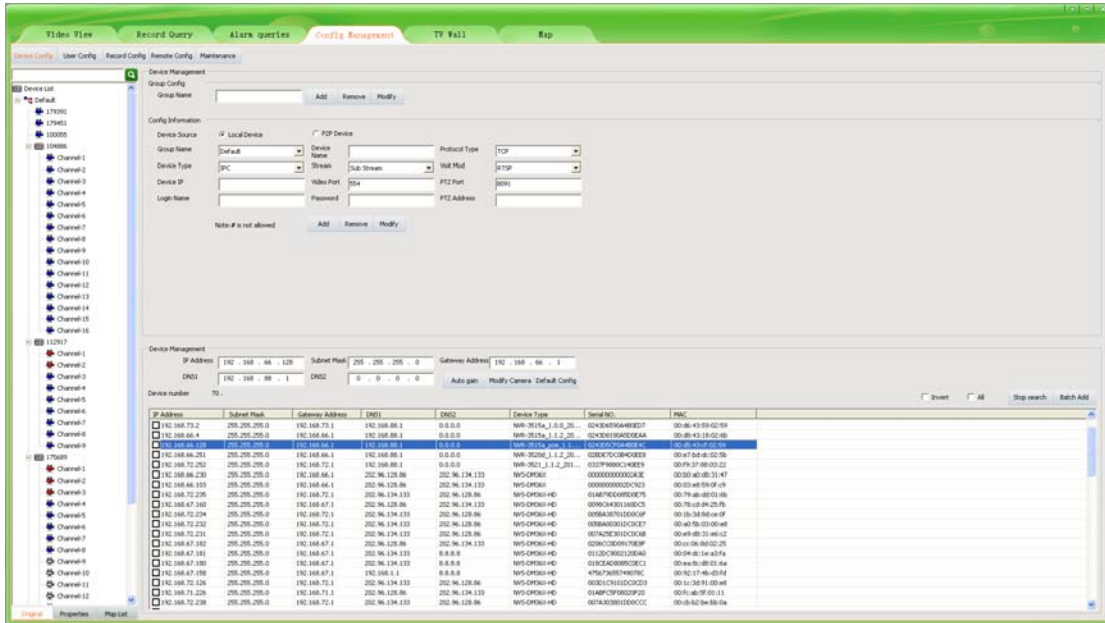
NVR configuration and post P2P network connection is enabled, In the preview screen and the "main menu Settings, system Settings, network configuration, the P2P can see after the success of the P2P connection equipment in the domain name, enter the domain name in the address bar to access NVR. The user name, password is the same as the local login NVR. If you can not install IE controls, open IE- tools -Internet Options - Security - Custom – “Download unsigned controls” and “safe for scripting of ActiveX controls Initialize and marked” select “prompt”, or download control installation .



**Explanation: P2P login access through IE , if not modified the default user name and password , then log in directly without having to enter a user name and password.**

## 15.3 UC connection

Open UC2 Software, In the “Configuration Management - Device Management ”, click on “ Start search” will automatically search for LAN equipment, Select Add or manually add NVR / DVR type devices.

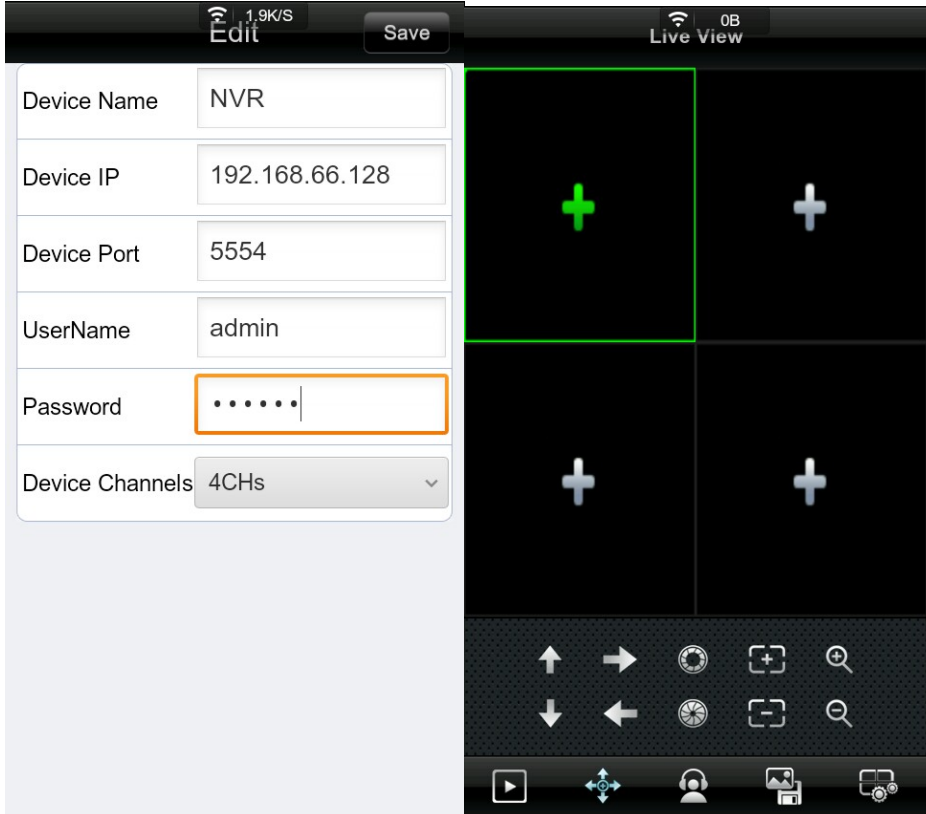


For more details, refer to instructions UC2 help.

## 15.4 Phone connection

### 15.4.1 TSee normal connection

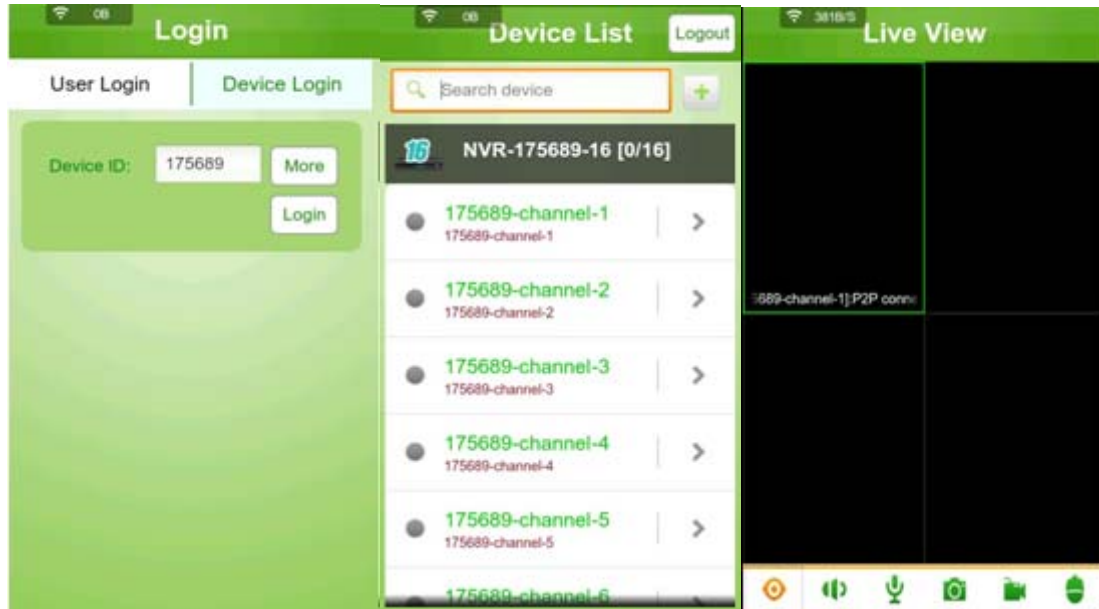
Custom normal connect device name , device address NVR IP address or domain name, NVR phone ports are access ports, the user name, password is the same as the local login NVR.



For more details refer TSee instructions manual.

## 15.4.2 Seetong cloud connection

Through Seetong can press according to the user and device access cloud, As shown in the figure below:



For more details refer Seetong instructions manual.