5 WEB OPERATION

Slightly difference may be found in the interface due to different series.

5.1 Network Connection

Before web client operation, please check the following items:

- Network connection is right
- DVR and PC network setup is right. Please refer to network setup(main menu->Setting->Network)
- Use order ping ***.***.***.***(* DVR IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.
- Current series product supports various browsers such as Safari, fire fox browser, Google browser. Device supports multiple-channel monitor, PTZ control, DVR parameter setup on the Apple PC.

5.2 Login

Open IE and input DVR address in the address column. For example, if your DVR IP is 10.10.3.16, then please input http:// 10.10.3.16 in IE address column.

System pops up warning information to ask you whether install control or not. Please click Install button. See Figure 5-1.

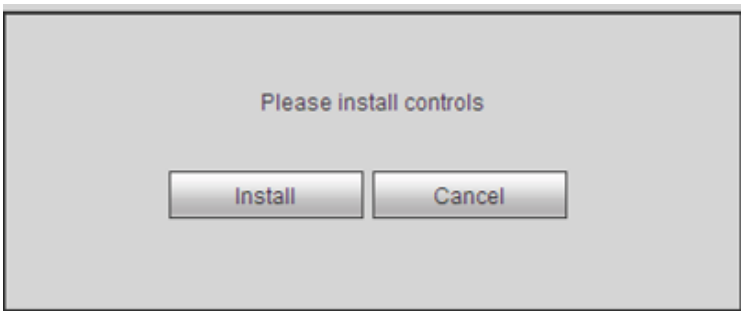


Figure 5-1

After installation, the interface is shown as below. See Figure 5-2.

Please input your user name and password.

Default factory name is admin and password is admin.

Note: For security reasons, please modify your password after you first login.

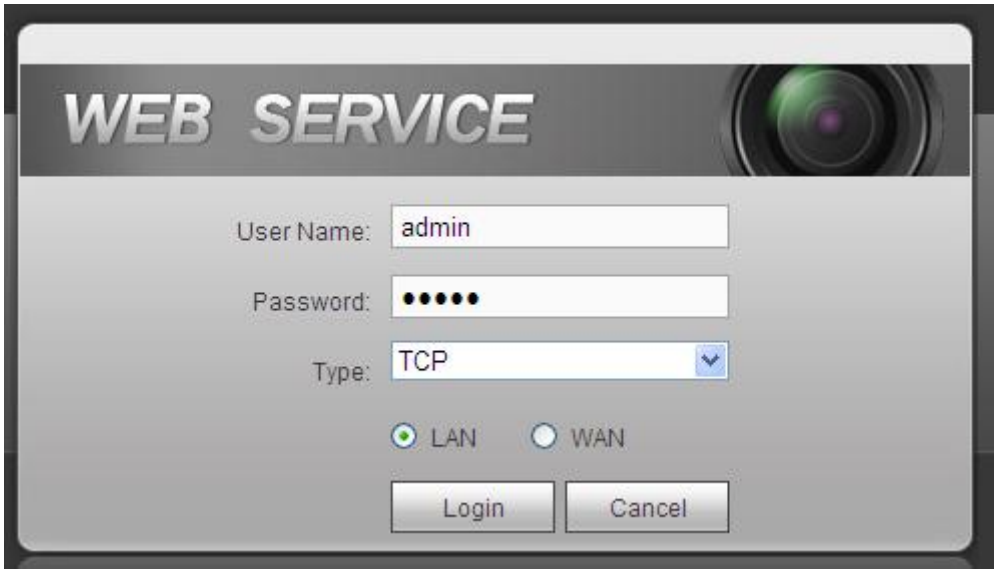


Figure 5-2

System pops up the following dialogue box for you to change default administrator password. See Figure 5-3.

Figure 5-3

For you own safety, please change the default password after you first login.

Click Cancel button, system pops up the following dialogue box to confirm the exit. See Figure 5-4.

Check the box here, system will not pop up the change password interface the next time.

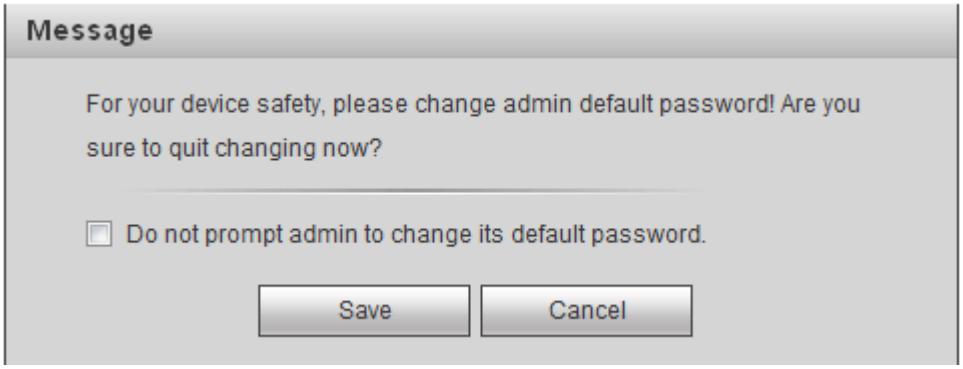


Figure 5-4

5.3 LAN Mode

For the LAN mode, after you logged in, you can see the main window. See Figure 5-5.

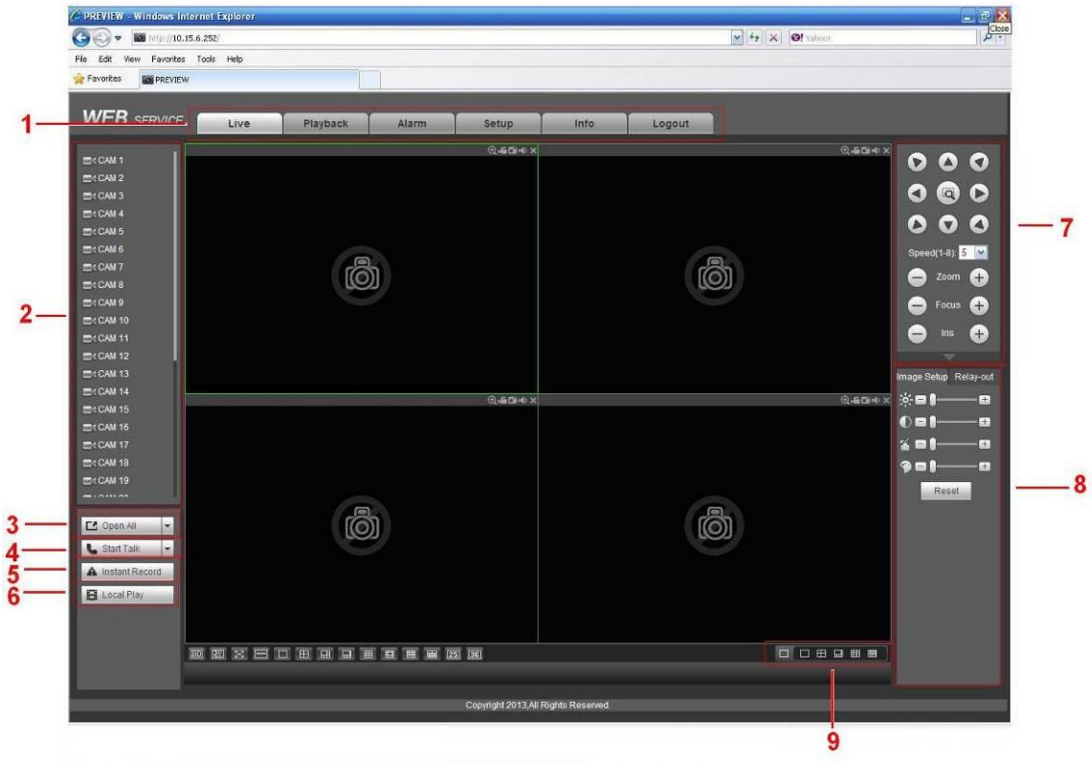


Figure 5-5

This main window can be divided into the following sections.

- Section 1: there are five function buttons: Live（chapter 5.4）, setup (chapter 5.8), search (chapter 5.10), alarm (chapter 5.11), and logout (chapter 5.12).
- Section 2: There are channel number and one button: Start all. Start all button is to enable/disable all-channel real-time monitor. Click it the button becomes yellow. See Figure 5-6.

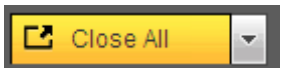


Figure 5-6

Please refer to Figure 5-7 for main stream and extra stream switch information.

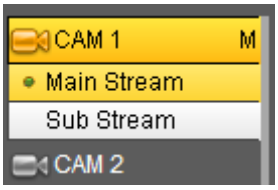


Figure 5-7

- Section 3: Start dialogue button.

You can click this button to enable audio talk. Click【▼】to select bidirectional talk mode. There are four options: DEFAULT，G711a，G711u and PCM. After you enable the bidirectional talk, the Start talk button becomes End Talk button and it becomes yellow. See Figure 5-8.

Please note, if audio input port from the device to the client-end is using the first channel audio input port. During the bidirectional talk process, system will not encode the audio data from the 1-channel.

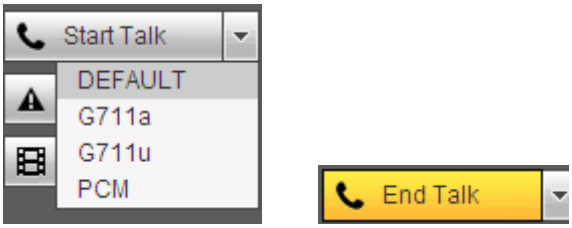


Figure 5-8

- Section 4: Instant record button. Click it, the button becomes yellow and system begins manual record. See Figure 5-9. Click it again, system restores previous record mode..

Figure 5-9

- Section 5: Local play button.

The Web can playback the saved (Extension name is dav) files in the PC-end.

Click local play button, system pops up the following interface for you to select local play file. See Figure 5-10.

Figure 5-10

- Section 6: From the left to the right ,you can see video quality/fluency/ full screen/1-window/4-window/6-window/8-window/9-window/13-window/16-window/20-window/25-window/36-window.. You can set video fluency and real-time feature priority.
- Section 7: PTZ operation panel. Please refer to chapter 5.5 for detailed information.
- Section 8: Image setup and alarm setup. Please refer to chapter 5.6 for detailed information.
- Setion9：Zero-channel encoding. This function allows you to view several-window in one channel. It supports 1/4/8/9-window.

5.4 Real-time Monitor

In section 2, left click the channel name you want to view, you can see the corresponding video in current window.

On the top left corner, you can view device IP, channel number, network monitor bit stream. See Figure 5-11.

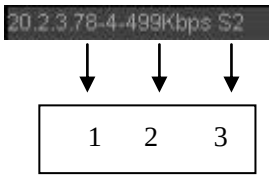


Figure 5-11

On the top right corner, there are six unction buttons. See Figure 5-12.

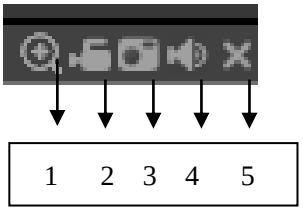


Figure 5-12

- 1: Digital zoom: Click this button and then left drag the mouse in the zone to zoom in. right click mouse system restores original status.
- 2: Local record. When you click local record button, the system begins recording and this button becomes highlighted. You can go to system folder RecordDownload to view the recorded file.
- 3: Snapshot picture. You can snapshot important video. All images are memorized in system client folder PictureDownload (default).
- 4: Audio :Turn on or off audio.(It has no relationship with system audio setup)
- 5: Close video.

5.5 PTZ

Before PTZ operation, please make sure you have properly set PTZ protocol. (Please refer to chapter 5.8.5.5).

There are eight direction keys. In the middle of the eight direction keys, there is a 3D intelligent positioning key.

Click 3D intelligent positioning key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. It can realize PTZ automatically.

Please refer to the following sheet for PTZ setup information.

Parameter	Function
Scan	● Select Scan from the dropdown list. ● Click Set button, you can set scan left and right limit. ● Use direction buttons to move the camera to you desired location and then click left limit button. Then move the camera again and then click right limit button to set a right limit.
Preset	● Select Preset from the dropdown list. ● Turn the camera to the corresponding position and Input the preset value. Click Add button to add a preset.
Tour	● Select Tour from the dropdown list. ● Input preset value in the column. Click Add preset button, you have added one preset in the tour. ● Repeat the above procedures you can add more presets in one tour. ● Or you can click delete preset button to remove one preset from the tour.
Pattern	● Select Pattern from the dropdown list. ● You can input pattern value and then click Start button to begin PTZ movement such as zoom, focus, iris, direction and etc. Then you can click Add button to set one pattern.
Aux	● Please input the corresponding aux value here. ● You can select one option and then click AUX on or AUX off button.

Parameter	Function
Light and wiper	You can turn on or turn off the light/wiper.

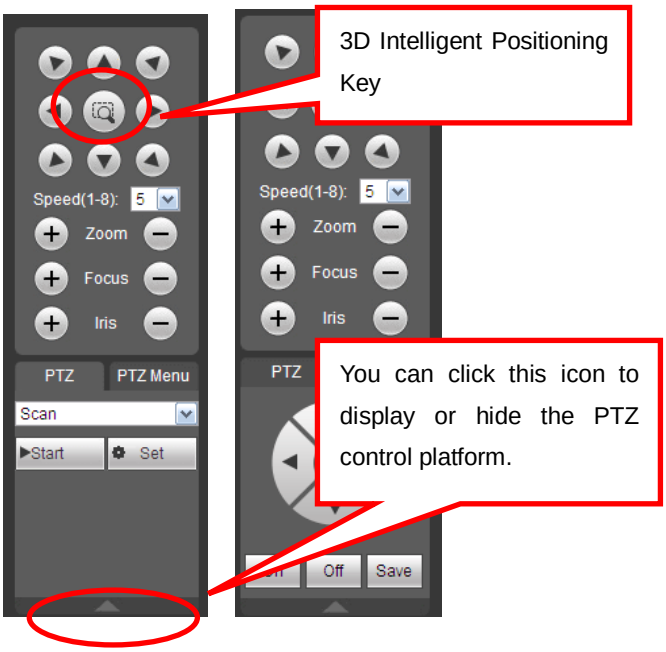


Figure 5-13

5.6 Image/Relay-out

Select one monitor channel video and then click Image button in section 8, the interface is shown as Figure 5-14.

5.6.1 Image

Here you can adjust its brightness, contrast, hue and saturation. (Current channel border becomes green).

Or you can click Reset button to restore system default setup.

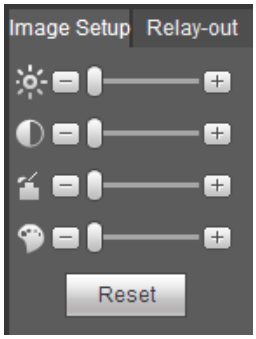


Figure 5-14

5.6.2 Relay output

Here you can enable or disable the alarm signal of the corresponding port. See Figure 5-15.

Figure 5-15

5.7 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 5-16.

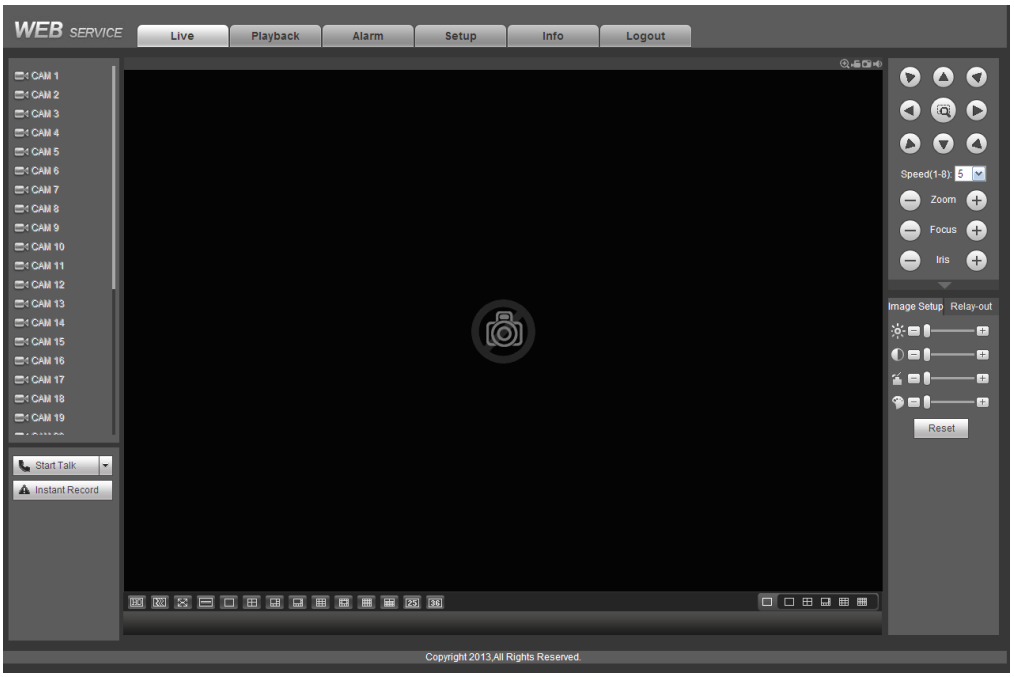


Figure 5-16

Please refer to the following contents for LAN and WAN login difference.

1) In the WAN mode, system opens the main stream of the first channel to monitor by default. The open/close button on the left pane is null.

2) You can select different channels and different monitor modes at the bottom of the interface. See Figure 5-17.

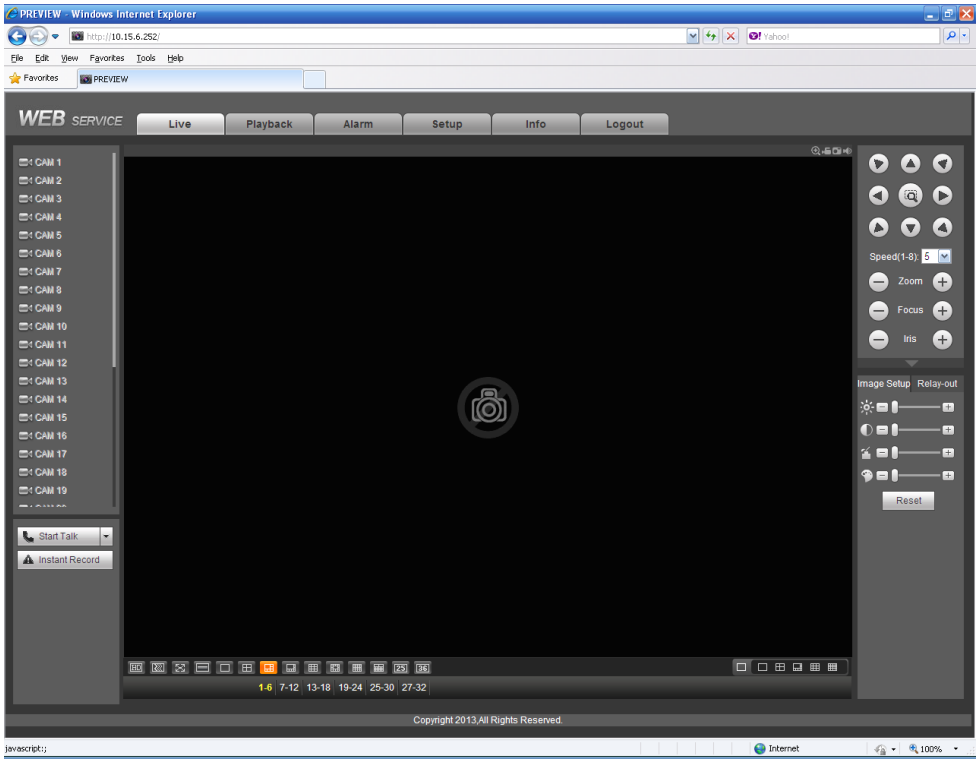


Figure 5-17

Important

The window display mode and the channel number are by default. For example, for the 16-channel, the max window split mode is 16.

3) Multiple-channel monitor, system adopts extra stream to monitor by default. Double click one channel, system switches to single channel and system uses main stream to monitor. You can view there are two icons at the left top corner of the channel number for you reference. M stands for main stream. S stands for sub stream (extra stream).

4) If you login via the WAN mode, system does not support alarm activation to open the video function in the Alarm setup interface.

Important

- For multiple-channel monitor mode, system adopts extra stream to monitor by default. You can not modify manually. All channels are trying to synchronize. Please note the synchronization effect still depends on your network environments.
- For bandwidth consideration, system can not support monitor and playback at the same time. System auto closes monitor or playback interface when you are searching setup in the configuration interface. It is to enhance search speed.

5.8 Setup

5.8.1 Camera

5.8.1.1 Remote Device

Remote device interface is shown as below. See Figure 5-18.

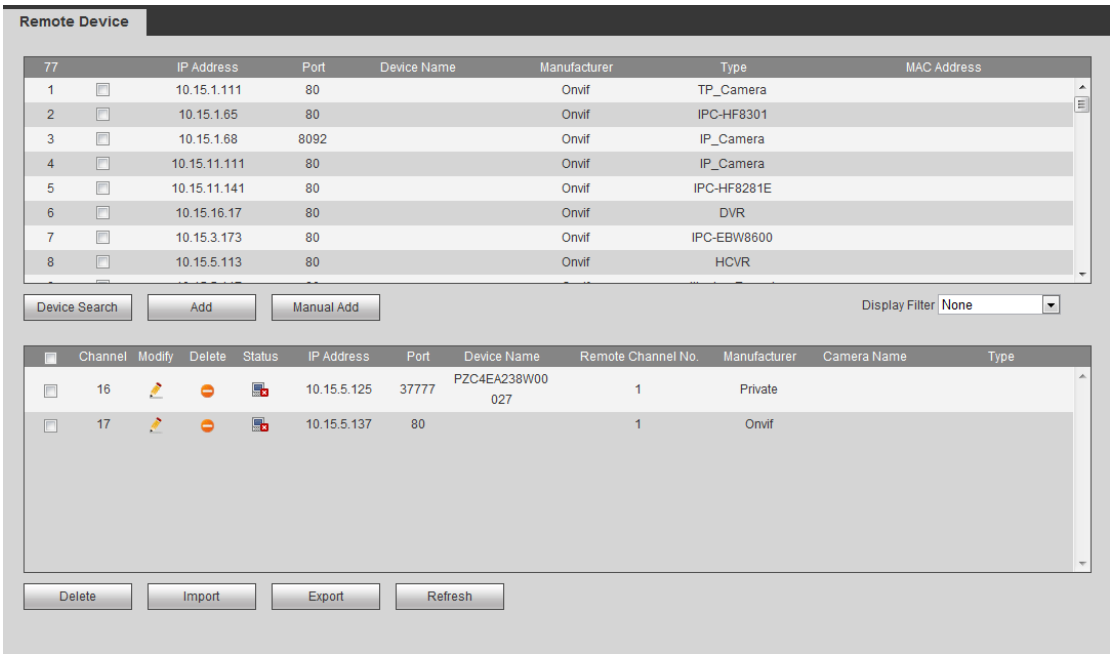


Figure 5-18

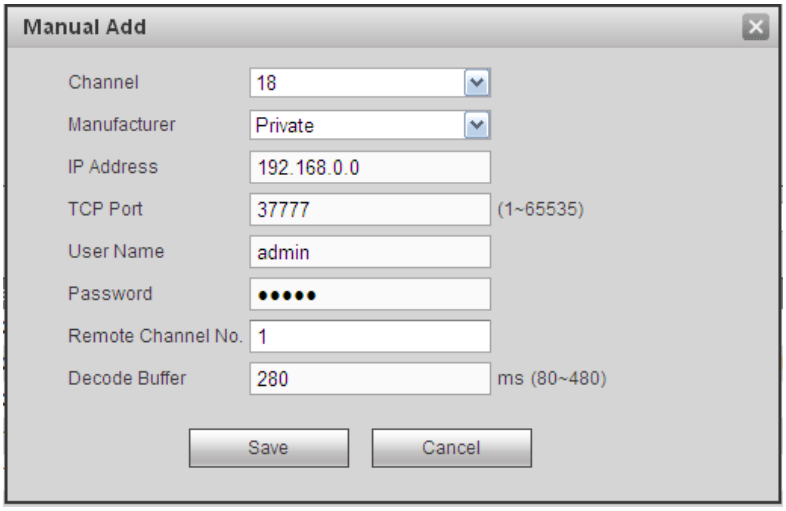


Figure 5-19

Please refer to the following sheet for log parameter information.

Parameter	Function
Device search	Click Device search button, you can view the searched device information on the list. It includes device IP address, port, device name, manufacturer and type.
Add	Select a device in the list and then click Add button, system can connect the device automatically and add it to the Added device list. Or you can double click one item in the list to add a device.
Modify	Click  or any device in the Added device list, you can change the corresponding channel setup.

Parameter	Function
Delete	Click , you can delete the remote connection of the corresponding channel.
Connection status	: Connection succeeded. : Connection failed.
Delete	Select a device in the Added device list and then click Delete button, system can disconnect the device and remove it from the Added device list.
Manual Add	Click it, the interface is shown as in Figure 5-19. Here you can add network camera manually. You can select a channel from the dropdown list (Here only shows disconnection channel.) **Note:** ● System supports manufactures such as Panasonic, Sony, Dynacolor, Samsung, AXIS, Arecont, Dahua and Onvif standard protocol. ● If you do not input IP address here. System uses default IP 192.168.0.0 and system does not connect to this IP. ● Can not add two devices at the same time. Click OK button here, system only connect to the corresponding device of current channel.
Export	Click it, system can export the added device list to your local PC. The export file is .CVS file. The information includes IP address, port, remote channel number, manufacturer, user name, password and etc.
Import	Click it, you can import the setup file to the device. If the imported IP has conflicted with current added device, system pops up a dialogue box to remind you. You have two options: ● OK: Click OK button, system uses the imported setup to overlay current one. ● Cancel: Click Cancel button, system adds the new IP setup.

Important

- You can edit the exported .CVS file. **Do not change the file format; otherwise it may result in import failure.**
- Does not support customized protocol import and export.
- The import and export device shall have the same language format.

5.8.1.2 Conditions

Here you can view device property information. The setups become valid immediately

after you set. See Figure 5-20(analog channel) and Figure 5-21(digital channel) .

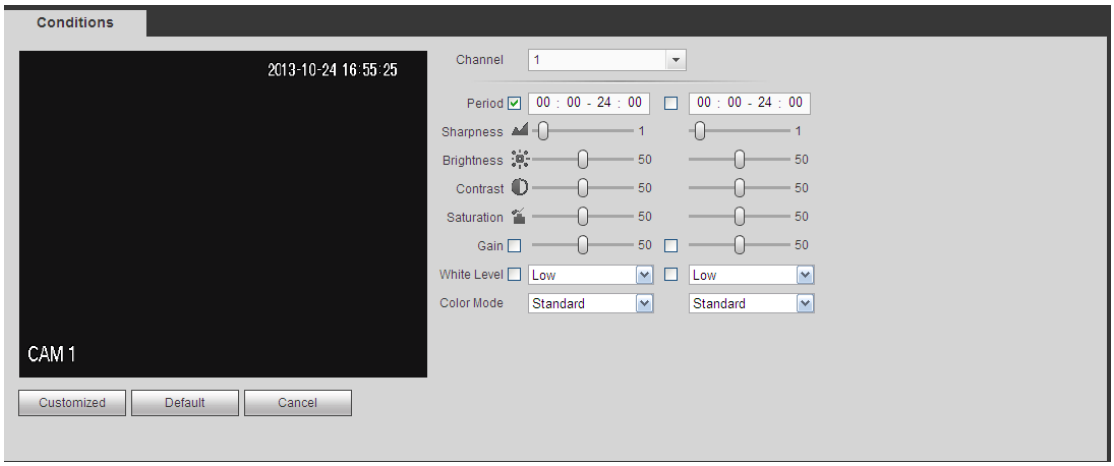


Figure 5-20

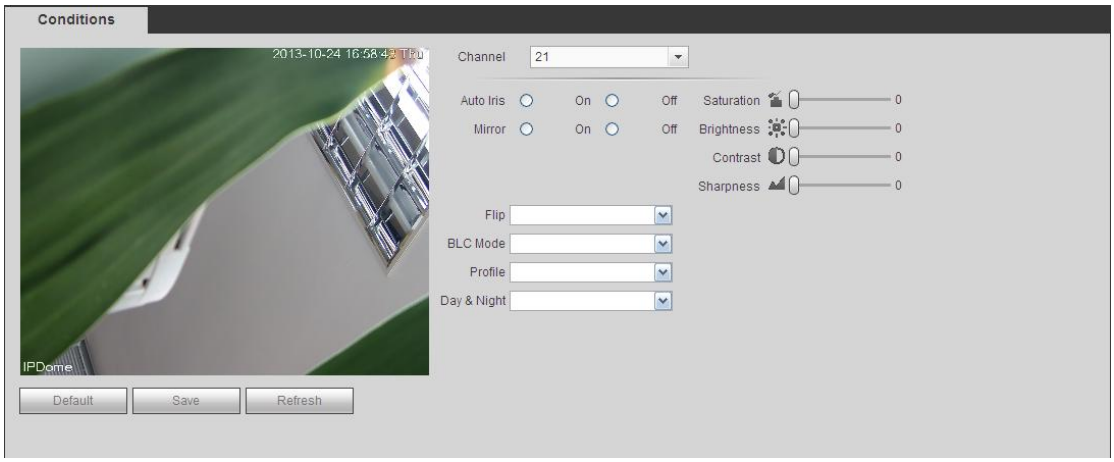


Figure 5-21

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Please select a channel from the dropdown list.
Period	It divides one day (24 hours) to two periods. You can set different hue, brightness, and contrast for different periods.
Hue	It is to adjust monitor video brightness and darkness level. The default value is 50. The bigger the value is, the large the contrast between the bright and dark section is and vice versa.
Brightness	It is to adjust monitor window brightness. The default value is 50. The larger the number is , the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The value ranges from 0 to 100.The recommended value ranges from 40 to 60.

Contrast	It is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure .The recommended value ranges from 40 to 60.
Saturation	It is to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number is, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be attractive if the value is too low. The recommended value ranges from 40 to 60.
Color mode	It includes several modes such as standard, color. You can select corresponding color mode here, you can see hue, brightness, and contrast and etc will adjust accordingly.

5.8.1.3 Encode

5.8.1.3.1 Encode

The encode interface is shown as below. See Figure 5-22.

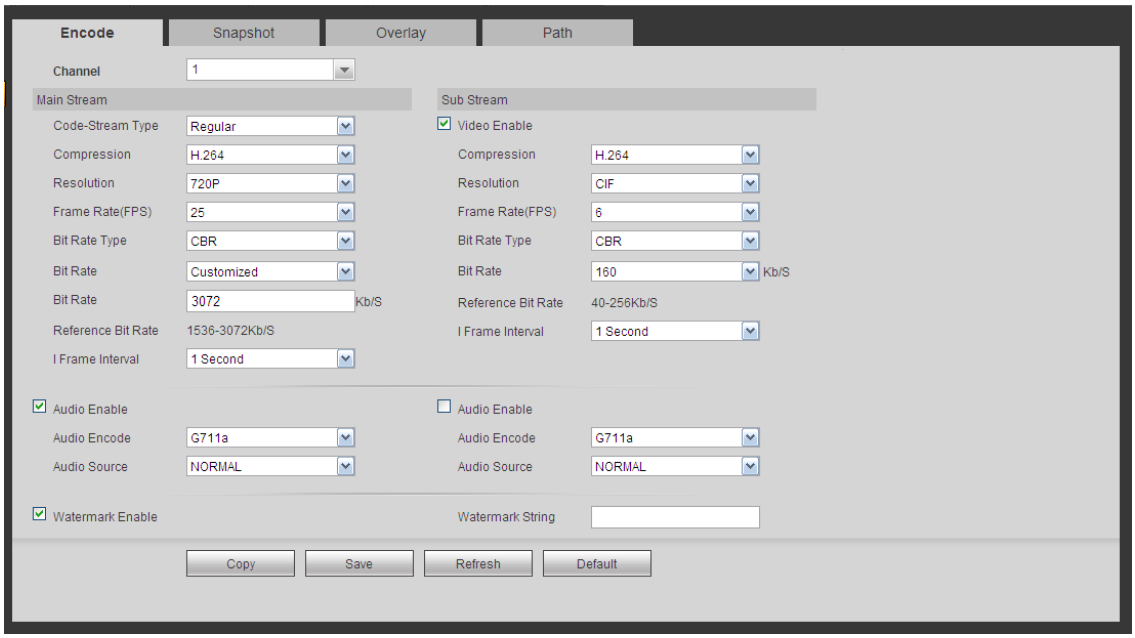


Figure 5-22

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Please select a channel from the dropdown list.

SVC	SVC is so called scaled video coding. Check the box to enable this function. During the network transmission process, system discards unimportant frames when the bandwidth is not sufficient or the decode capability is low. It is to guarantee video quality and transmission fluency.
Video enable	Check the box here to enable extra stream video. This item is enabled by default.
Code stream type	It includes main stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events. System supports active control frame function (ACF). It allows you to record in different frame rates. For example, you can use high frame rate to record important events, record scheduled event in lower frame rate and it allows you to set different frame rates for motion detection record and alarm record.
Compression	Compression: System supports H.264H, H.264, H.264B, and MJPEG. ✧ H.264H: It is the High Profile compression algorithm. It has the high encode compression rate. It can achieve high quality encode at low bit stream. Usually we recommend this type. ✧ H.264 is the general compression algorithm. ✧ H.264B is the Baseline algorithm. Its compression rate is low. For the same video quality, it has high bit stream requirements.
Resolution	System supports various resolutions, you can select from the dropdown list. Please note the option may vary due to different series.
Frame Rate	PAL：1～25f/s；NTSC：1～30f/s.
Bit Rate	● Main stream: You can set bit rate here to change video quality. The large the bit rate is , the better the quality is. Please refer to recommend bit rate for the detailed information. ● Extra stream: In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value. The value is null in VBR mode.
Reference bit rate	Recommended bit rate value according to the resolution and frame rate you have set.
I Frame	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50. Recommended value is frame rate *2.
Audio encode	Please select from the dropdown list. There are three options: G711a/G711u/PCM.

Audio source	Please select from the dropdown list. There are two options: Normal/HDCVI. In the normal mode, the audio signal comes from the Audio In. In the HDCVI mode, the audio signal comes from the coaxial cable of the camera.
Audio sampling rate:	The audio sampling rate refers to the device audio sampling rate per second. The options include: 8/16/32K. The higher the rate is, the more natural and impressive the audio is. The default setup is 8K.
Watermark enable	This function allows you to verify the video is tampered or not. Here you can select watermark bit stream, watermark mode and watermark character. Default character is DigitalCCTV. The max length is 85-digit. The character can only include number, character and underline.

5.8.1.3.2 Snapshot

The snapshot interface is shown as in Figure 5-23.

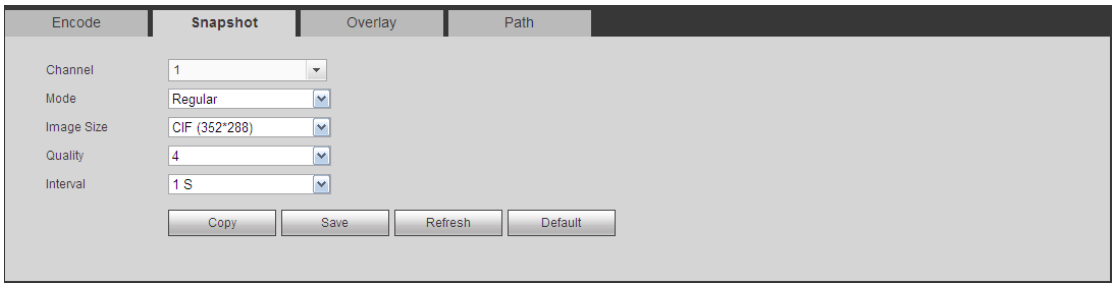


Figure 5-23

Please refer to the following sheet for detailed information.

Parameter	Function
Snapshot type	There are two modes: Regular (schedule) and Trigger. ● Regular snapshot is valid during the specified period you set. ● Trigger snapshot only is valid when motion detect alarm, tampering alarm or local activation alarm occurs.
Image size	It is the same with the resolution of the main stream.
Quality	It is to set the image quality. There are six levels.
Interval	It is to set snapshot frequency. The value ranges from 1s to 7s. Or you can set customized value. The max setup is 3600s/picture.
Copy	Click it; you can copy current channel setup to other channel(s).

5.8.1.3.3 Video Overlay

The video overlay interface is shown as in Figure 5-24.

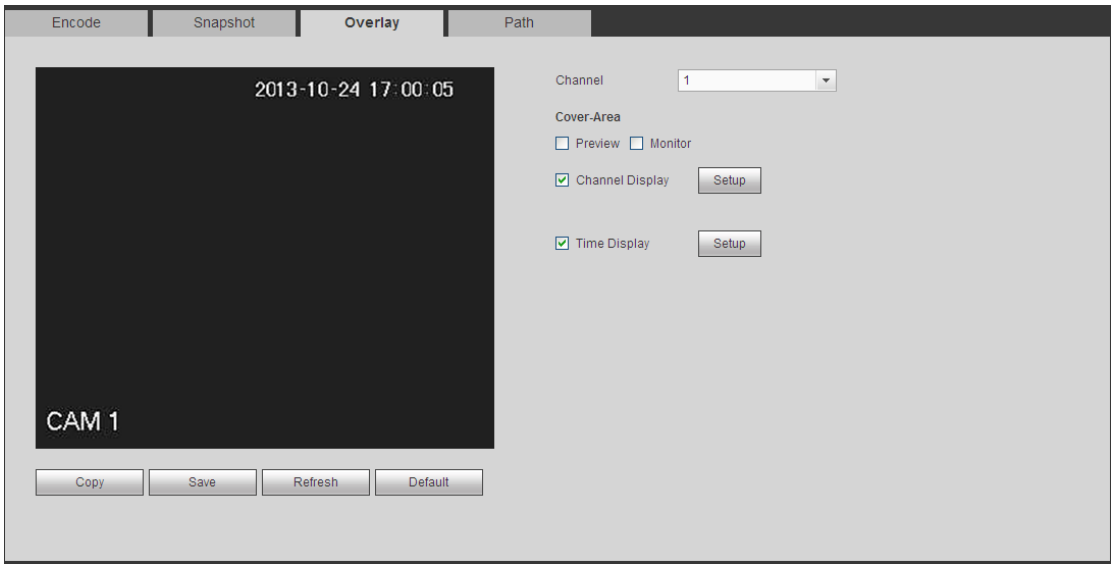


Figure 5-24

Please refer to the following sheet for detailed information.

Parameter	Function
Cover-area	Check Preview or Monitor first. Click Set button, you can privacy mask the specified video in the preview or monitor video. System max supports 4 privacy mask zones.
Time Title	You can enable this function so that system overlays time information in video window. You can use the mouse to drag the time title position. You can view time title on the live video of the WEB or the playback video.
Channel Title	You can enable this function so that system overlays channel information in video window. You can use the mouse to drag the channel title position. You can view channel title on the live video of the WEB or the playback video.

5.8.1.3.4 Path

The storage path interface is shown as in Figure 5-25.

Here you can set snap image saved path (in the preview interface) and the record storage path (in the preview interface).The default setup is C:\PictureDownload and C:\RecordDownload.

Please click the Save button to save current setup.

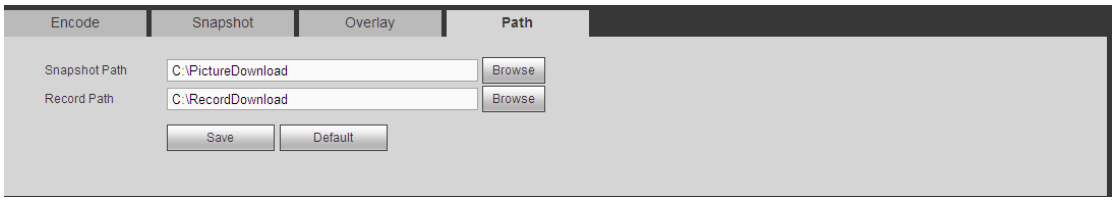


Figure 5-25

5.8.1.4 Channel Name

Here you can set channel name. See Figure 5-26.

Figure 5-26

5.8.1.5 Channel Type

- **This function is for some series only. Some series products support analog standard definition connections/analog HD connection/network camera connection while some series products support analog HD connection/network camera connection only.**
- **For HDCVI signal and analog standard definition signal, system can auto recognize channel type, there is no need to set or restart. For analog channels, the interface here is to display channel type only. You can change cable mode (Coaxial/UTP) if you are using HDCVI.**

It is to set channel type. Each channel supports analog camera（analog standard definition/HDCVI） /network camera connection. Please note DVR needs to restart to activate new setup. The network camera connection shall begin with the last channel. For the 16-channel (or higher) series product, please go to the next page to set. See Figure 5-27.

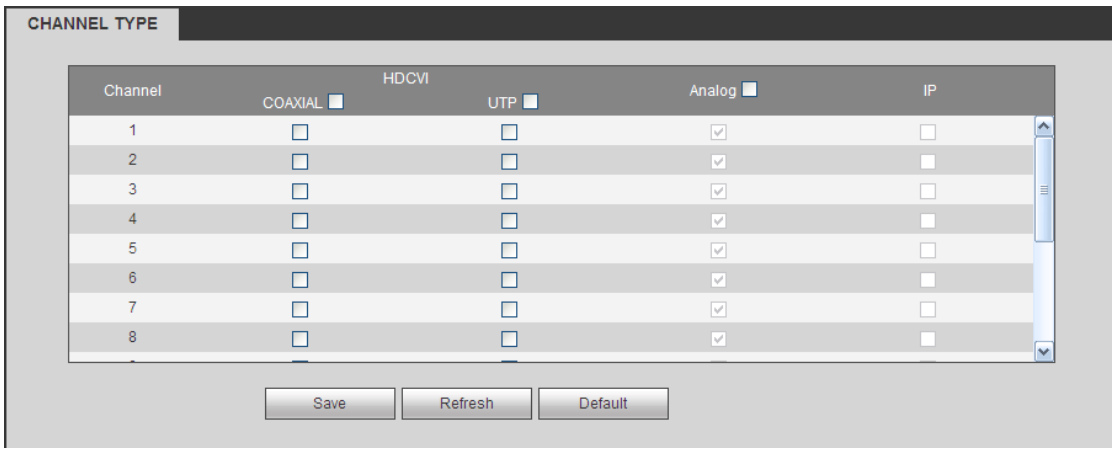


Figure 5-27

5.8.2 Network

5.8.2.1 TCP/IP

The TCP/IP interface is shown as in Figure 5-28.

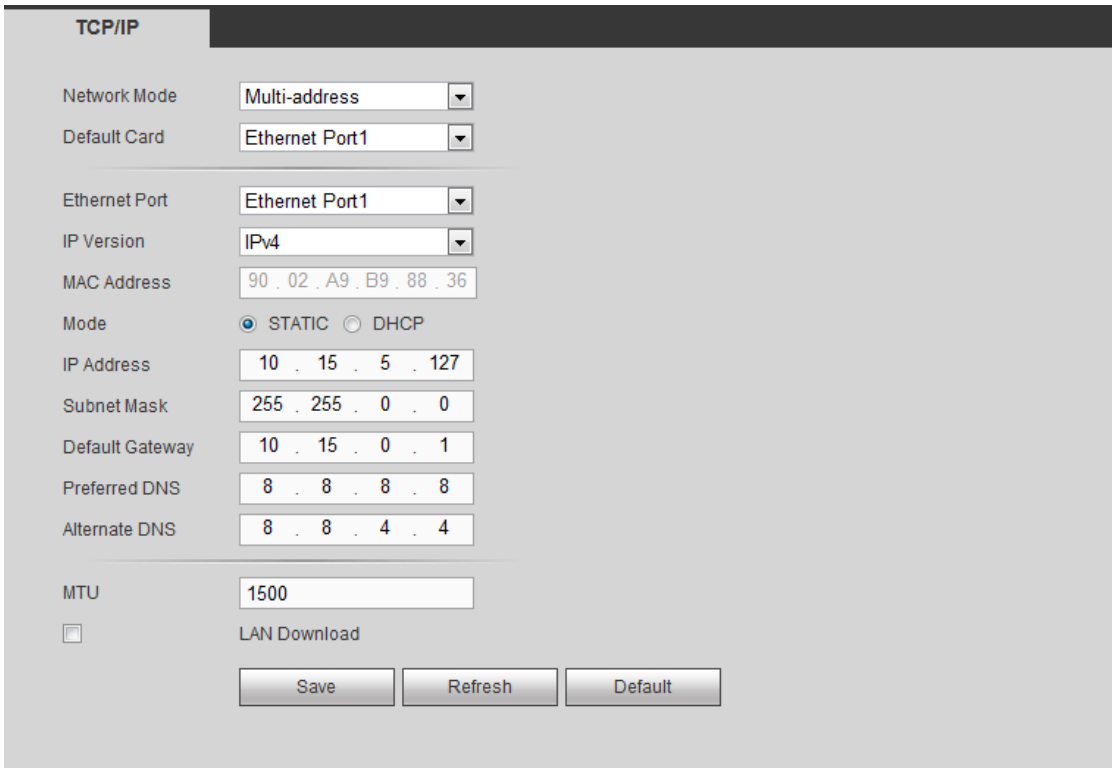


Figure 5-28

Please refer to the following sheet for detailed information.

Parameter	Function
Network mode	It includes: multiple-address, fault tolerance, load balance. ● Multiple-address mode: Multiple-Ethernet port operates separately. You can use the services such as HTTP, RTP service via any Ethernet port. Usually you need to set one default card (default setup is etho) to request the auto network service form the device-end such as DHCP, email, FTP and etc. In multiple-address mode, system network status is shown as offline once one card is offline. ● Network fault-tolerance: In this mode, device uses bond0 to communicate with the external devices. You can focus on one host IP address. At the same time, you need to set one master card. Usually there is only one running card (master card).System can enable alternate card when the master card is malfunction. The system is shown as offline once all cards are offline. Please note all cards shall be in the same LAN. ● Load balance: In this mode, device uses bond0 to communicate with the external device. The all cards are working now and bearing the network load. Their network load are general the same. The system is shown as offline once all cards are offline. Please note all cards shall be in the same LAN.
Default card	Select Ethernet card name if you network mode is fault tolerance.
Network card	It is the card bind by default if the mode is multiple-address or fault tolerance.
Mac Address	It is to display host Mac address.
IP Version	It is to select IP version. IPV4 or IPV6. You can access the IP address of these two versions.
Mode	There are two modes: static mode and the DHCP mode. ● The IP/submask/gateway are null when you select the DHCP mode to auto search the IP. ● If you select the static mode, you need to set the IP/submask/gateway manually. ● If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP. ● If you switch from the DHCP mode to the static mode, you need to reset the IP parameters. ● Besides, IP/submask/gateway and DHCP are read-only when the PPPoE dial is OK.
IP Address	Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
Preferred DNS	DNS IP address.
Alternate DNS	Alternate DNS IP address.

For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. It shall not be left in blank.	
LAN load	System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

5.8.2.2 Connection

The connection interface is shown as in Figure 5-29.

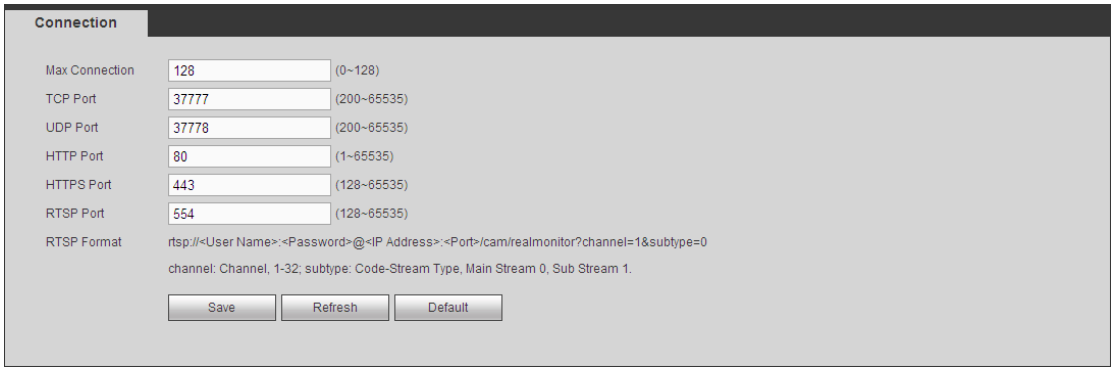


Figure 5-29

Please refer to the following sheet for detailed information.

Parameter	Function
Max connection	It is the max Web connection for the same device. The value ranges from 1 to 120. The default setup is 120.
TCP port	The default value is 37777. You can input the actual port number if necessary.
UDP port	The default value is 37778. You can input the actual port number if necessary.
HTTP port	The default value is 80. You can input the actual port number if necessary.
HTTPS	The default value is 443. You can input the actual port number if necessary.
RTSP port	The default value is 554.

5.8.2.3 WIFI

Please note this function is for the device of WIFI module.

The WIFI interface is shown as in Figure 5-30.

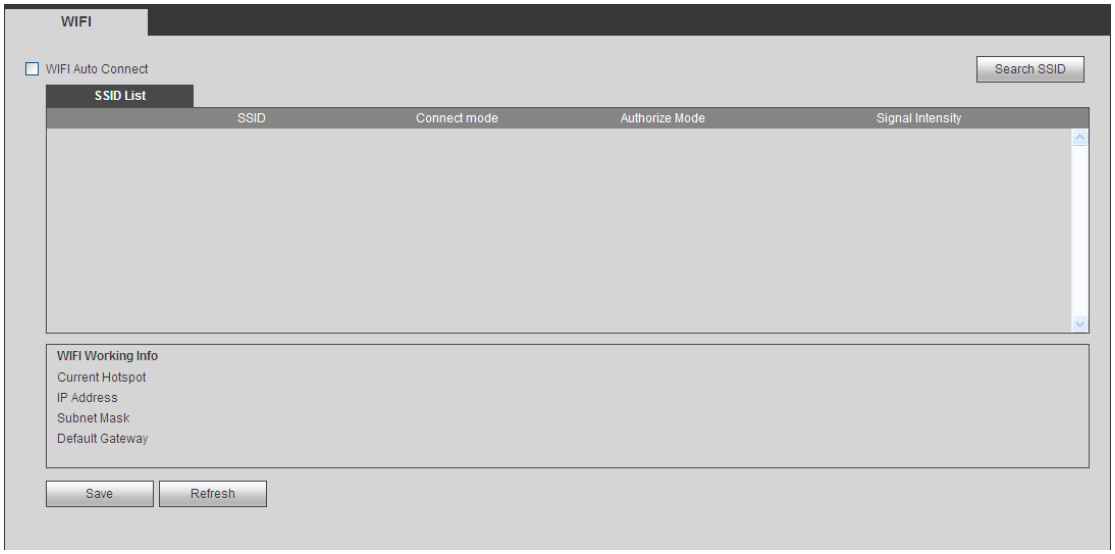


Figure 5-30

Please check the box to enable WIFI function and then click the Search SSID button. Now you can view all the wireless network information in the following list. Double click a name to connect to it. Click Refresh button, you can view latest connection status.

5.8.2.4 3G/4G

5.8.2.4.1CDMA/GPRS

The CDMA/GPRS interface is shown as in Figure 5-31.

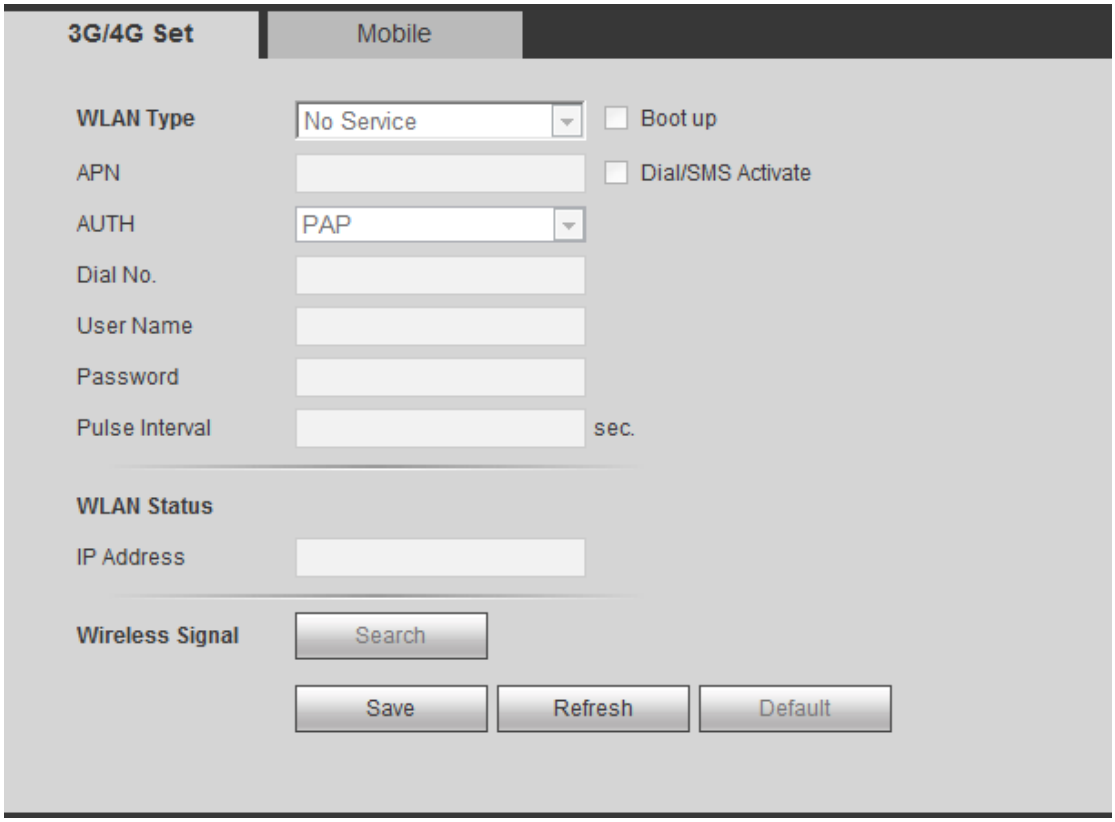


Figure 5-31

Please refer to the following sheet for detailed information.

Parameter	Function
WLAN type	Here you can select 3G/4G network type to distinguish the 3G/4G module from different ISP. The types include WCDMA，CDMA1x and etc.
APN/Dial No.	Here is the important parameter of PPP.
Authorization	It includes PAP,CHAP,NO_AUTH.
Pulse interval	It is to set time to end 3G/4G connection after you close extra stream monitor. For example, if you input 60 here, system ends 3G/4G connection after you close extra stream monitor 60 seconds.
Important ✧ **If the pulse interval is 0, then system does not end 3G/4G connection after you close the extra stream monitor.** ✧ **Pulse interval here is for extra stream only. This item is null if you are using main stream to monitor.**	

5.8.2.4.2Mobile

The mobile setup interface is shown as in Figure 5-32.

Here you can activate or turn off the 3G/4G connected phone or mobile phone, or the phone you set to get alarm message.

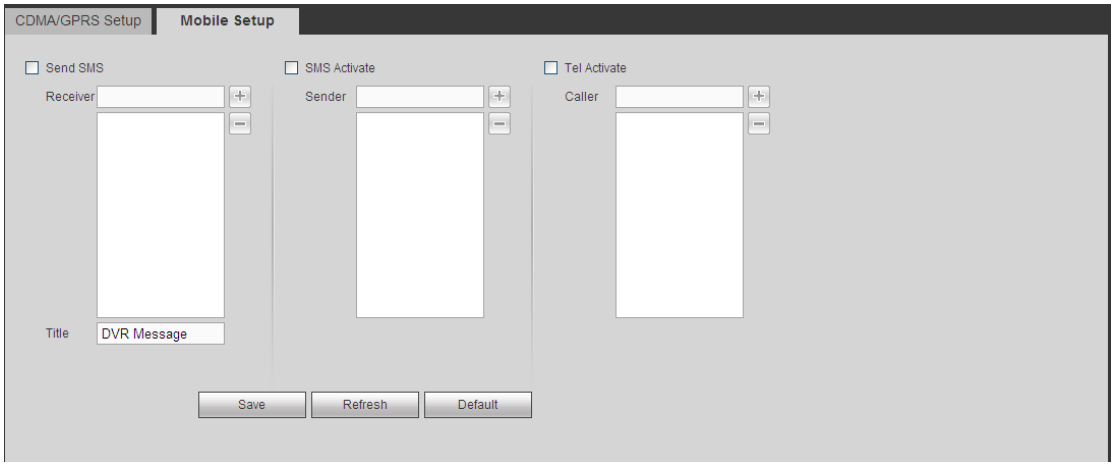


Figure 5-32

5.8.2.5 PPPoE

The PPPoE interface is shown as in Figure 5-33.

Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.

Device connects to the internet via PPPoE after reboot. You can get the IP address in the WAN from the IP address column.

Please note, you need to use previous IP address in the LAN to login the device. Please go to the IP address item to via the device current device information. You can access the client-end via this new address.

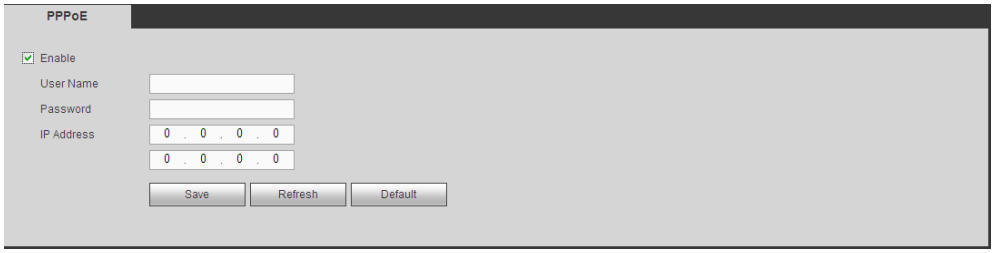


Figure 5-33

5.8.2.6 DDNS

The DDNS interface is shown as in Figure 5-34.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed.

Please select DDNS from the dropdown list (Multiple choices). Before you use this function, please make sure your purchased device support current function.

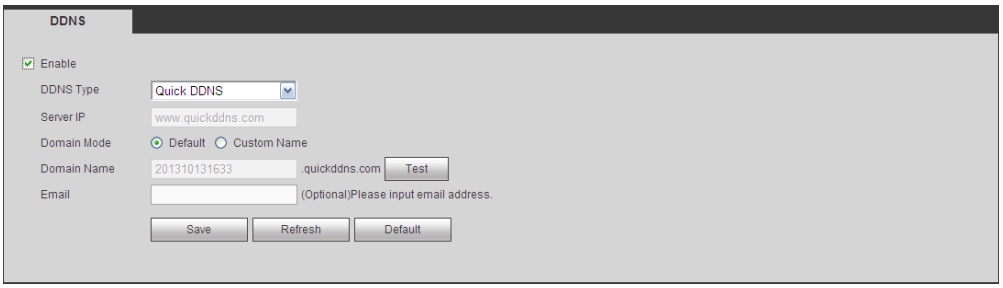


Figure 5-34

Please refer to the following sheet for detailed information.

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function.
Server IP	DDNS server IP address
Server Port	DDNS server port.
Domain Name	Your self-defined domain name.
User	The user name you input to log in the server.
Password	The password you input to log in the server.
Update period	Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here.

Quick DDNS and Client-end Introduction

1) Background Introduction

Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to access the DVR via the registered domain name. Besides the general DDNS, the quick DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The quick DDNS client has the same function as other DDNS client end. It realizes the bonding of the domain name and the IP address. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customized valid domain name (has not registered.).

3) Operation

Before you use Quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- Server address：www.quickddns.com
- Port number：80
- Domain name：There are two modes: Default domain name and customized domain name.

Except default domain name registration, you can also use customized domain name (You can input your self-defined domain name.) After successful registration, you can use domain name to login installed of the device IP.

- User name: It is optional. You can input your commonly used email address.

Important

- Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in server attack.
- System may take back the domain name that is idle for one year. You can get a notification email before the cancel operation if your email address setup is OK.

5.8.2.7 IP filter

5.8.2.7.1Access right

From main menu->Setting->Network->IP Filter, you can go to the following interface. See Figure 5-35.

You can add IP in the following list. The list supports max 64 IP addresses. System supports valid address of IPv4 and IPv6. **Please note system needs to check the validity of all IPv6 addresses and implement optimization.**

After you enabled trusted sites function, only the IP listed below can access current DVR. If you enable blocked sites function, the following listed IP addresses can not access current DVR.

- Enable: Highlight the box here, you can check the trusted site function and blocked sites function. You can not see these two modes if the Enable button is grey.
- Add: Click add button, you can see an interface shown as in Figure 5-36 .
- Type: You can select add type from the dropdown list. There are two options: add by IP address/IP section. If you want to add by IP section, you need to input start address/end address.
- Delete: Click it to remove specified item.
- Edit: Click it to edit start address and end address. See Figure 4-90. System can check the IP address validity after the edit operation and implement IPv6 optimization.

- Default: Click it to restore default setup. In this case, the trusted sites and blocked sites are both null.

Note:

- If you enabled trusted sites, only the IP in the trusted sites list can access the device.
- If you enabled blocked sites, the IP in the blocked sites can not access the device.

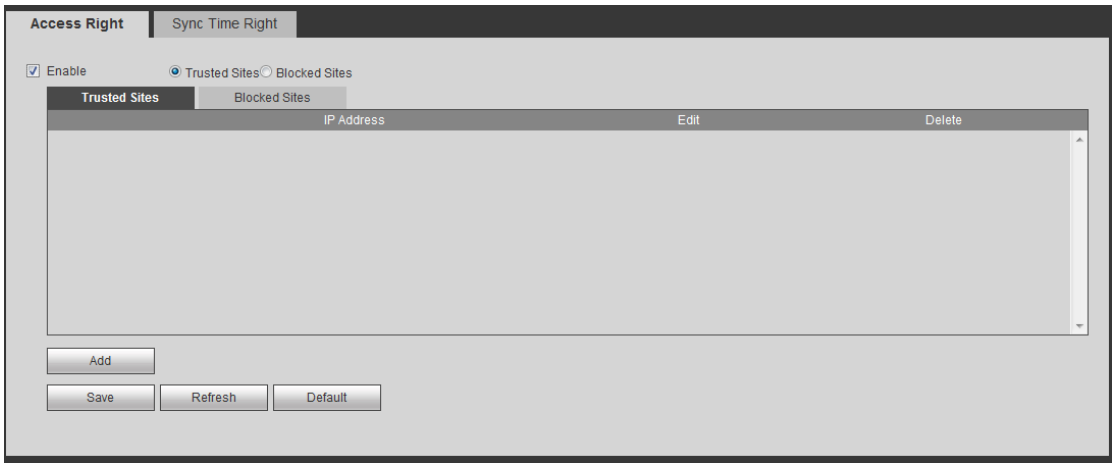


Figure 5-35

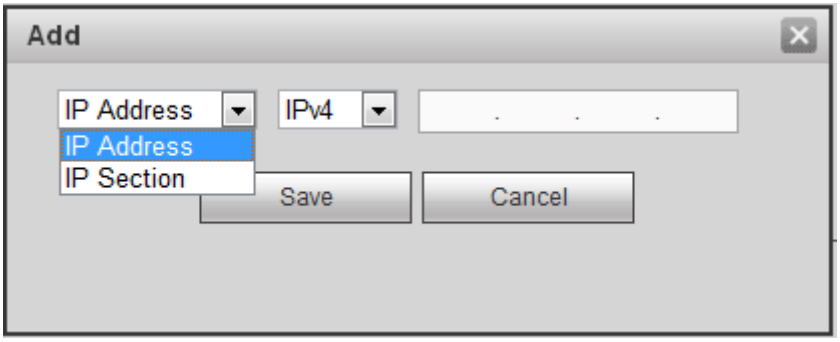


Figure 5-36

5.8.2.7.2 Sync time right

From main menu->Setting->Network->IP Filter->Sync time right, you can go to the following interface. See Figure 5-37.

It is to set sync time right. If you enable the white list function, only the IP in the list can sync the DVR time.

For detailed setup information, please refer to chapter 5.8.2.7.1.

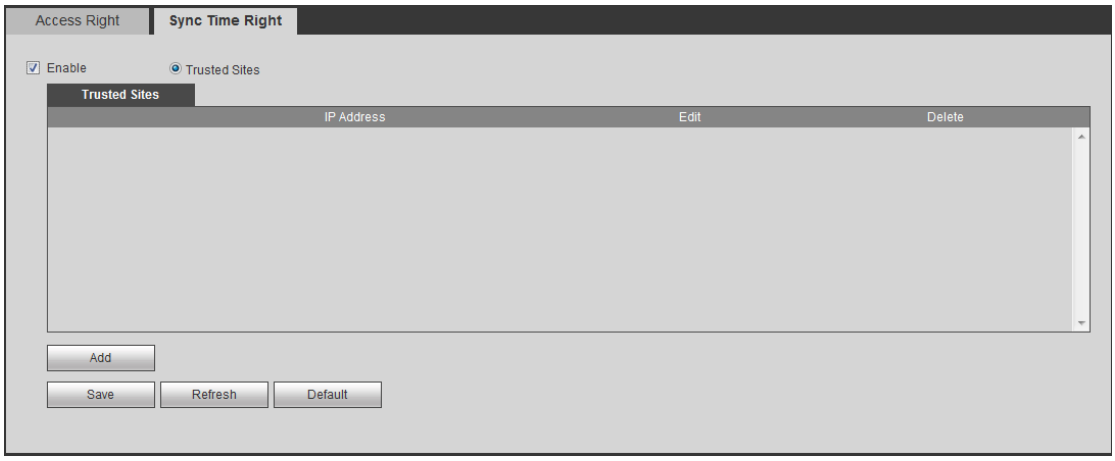


Figure 5-37

5.8.2.8 Email

The email interface is shown as in Figure 5-38.

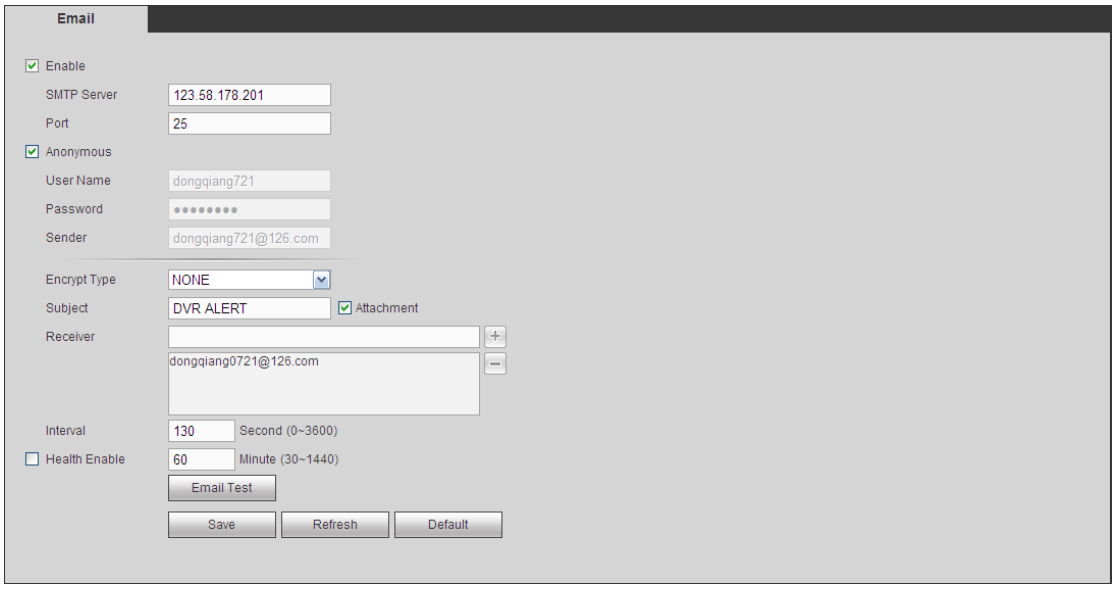


Figure 5-38

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Please check the box here to enable email function.
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name. password and the sender information.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.

Parameter	Function
Authentication (Encryption mode)	You can select SSL or none.
Subject	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.
Receiver	Input receiver email address here. Max three addresses. It supports SSL, TLS email box.
Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval. Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.
Health mail enable	Please check the box here to enable this function.
Update period (interval)	This function allows the system to send out the test email to check the connection is OK or not. Please check the box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here.
Email test	The system will automatically sent out an email once to test the connection is OK or not .Before the email test, please save the email setup information.

5.8.2.9 FTP

The FTP interface is shown as in Figure 5-39.

It is to set FTP IP, port and etc for remote storage.

For detailed information, please refer to chapter 4.11.2.9.

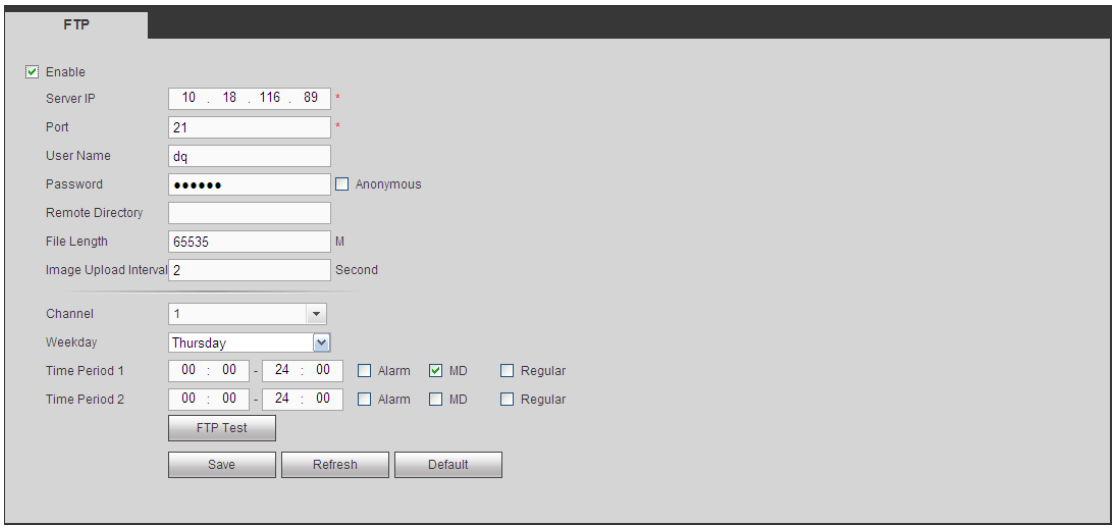


Figure 5-39

5.8.2.10 UPnP

It allows you to establish the mapping relationship between the LAN and the public network.

Here you can also add, modify or remove UPnP item. See Figure 5-40.

- In the Windows OS, From Start->Control Panel->Add or remove programs. Click the "Add/Remove Windows Components" and then select the "Network Services" from the Windows Components Wizard.
- Click the Details button and then check the "Internet Gateway Device Discovery and Control client" and "UPnP User Interface". Please click OK to begin installation.
- Enable UPnP from the Web. If your UPnP is enabled in the Windows OS, the DVR can auto detect it via the "My Network Places"

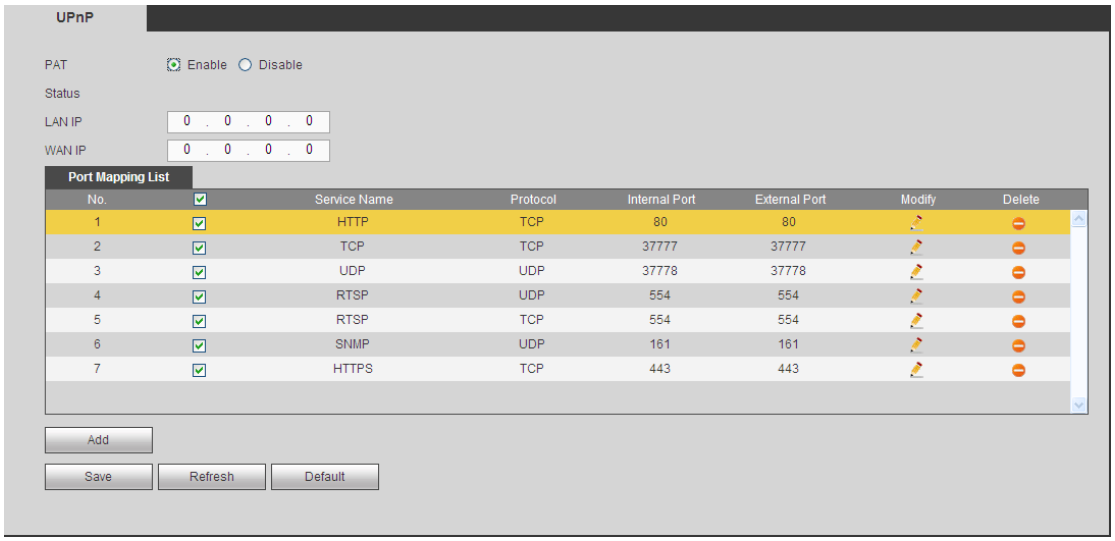


Figure 5-40

5.8.2.11 SNMP

The SNMP interface is shown as in Figure 5-41.

The SNMP allows the communication between the network management work station software and the proxy of the managed device. It is reserved for the 3rd party to develop.

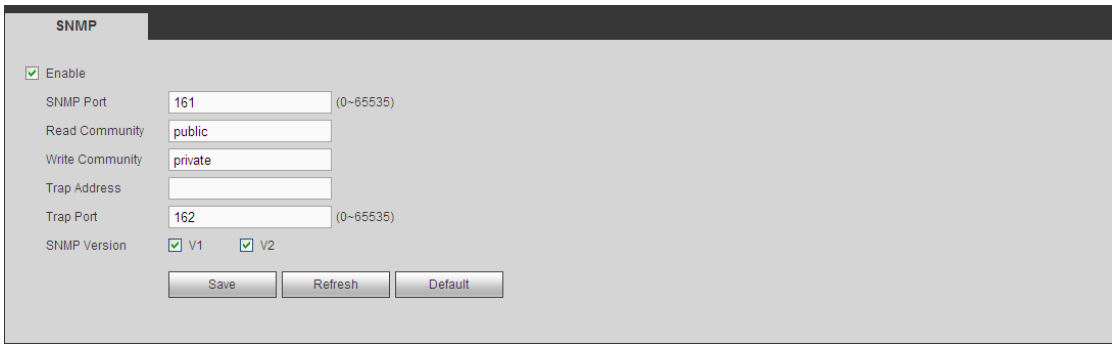


Figure 5-41

Please refer to the following sheet for detailed information.

Parameter	Function
SNMP Port	The listening port of the proxy program of the device. It is a UDP port not a TCP port. The value ranges from 1 to 65535. The default value is 161
Read Community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read all the objects the SNMP supported in the specified name. The default setup is public.
Write Community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read/write/access all the objects the SNMP supported in the specified name. The default setup is write.
Trap address	The destination address of the Trap information from the proxy program of the device.
Trap port	The destination port of the Trap information from the proxy program of the device. It is for the gateway device and the client-end PC in the LAN to exchange the information. It is a non-protocol connection port. It has no effect on the network applications. It is a UDP port not TCP port. The value ranges from 1 to 165535. The default value is 162.
SNMP version	● Check V1, system only processes the information of V1. ● Check V2, system only processes the information of V2.

5.8.2.12 Multicast

The multicast interface is shown as in Figure 5-42.

Multicast is a transmission mode of data packet. When there is multiple-host to receive the same data packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.

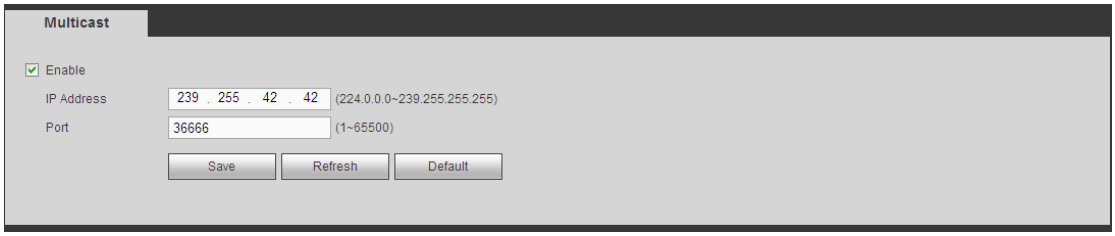


Figure 5-42

5.8.2.13 Auto Register

The auto register interface is shown as below. See Figure 5-43.

This function allows the device to auto register to the proxy you specified. In this way, you can use the client-end to access the DVR and etc via the proxy. Here the proxy has a switch function. In the network service, device supports the server address of IPv4 or

domain.

Please follow the steps listed below to use this function.

Please set proxy server address, port, and sub-device name at the device-end. Please enable the auto register function, the device can auto register to the proxy server.

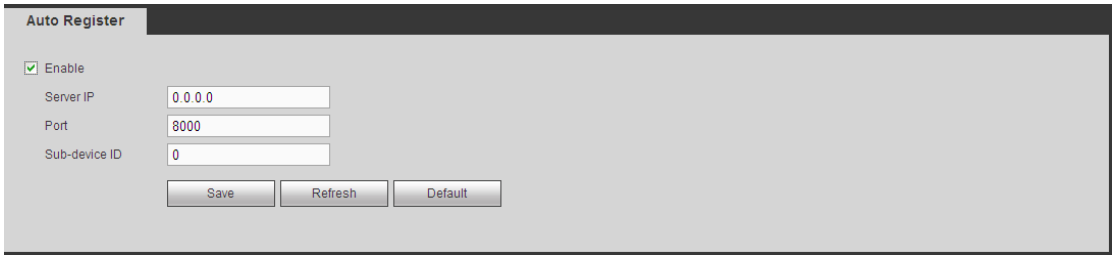


Figure 5-43

5.8.2.14 Alarm Centre

The alarm centre interface is shown as below. See Figure 5-44.

This interface is reserved for you to develop. System can upload alarm signal to the alarm centre when local alarm occurs.

Before you use alarm centre, please set server IP, port and etc. When an alarm occurs, system can send out data as the protocol defined, so the client-end can get the data.

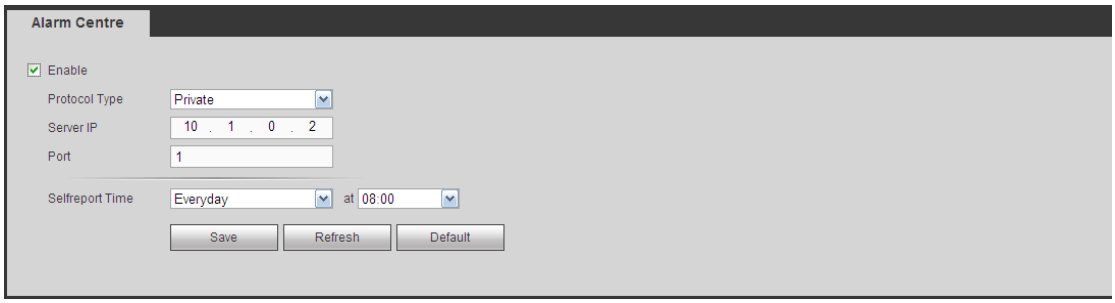


Figure 5-44

5.8.2.15 P2P

You can use your cell phone to scan the QR code and add it to the cell phone client.

Via the SN from scanning the QR code, you can access the device in the WAN. Please refer to the P2P operation manual included in the resources CD.

The P2P interface is shown as in Figure 5-45.

Check the Enable box to enable P2P function and then click the Save button. Now you can view the device status and SN.

Figure 5-45

5.8.2.16 HTTPS

In this interface, you can set to make sure the PC can successfully login via the HTTPS. It is to guarantee communication data security. The reliable and stable technology can secure the user information security and device safety. See Figure 5-46.

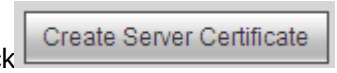
Note

- **You need to implement server certificate again if you have changed device IP.**
- **You need to download root certificate if it is your first time to use HTTPS on current PC.**

Figure 5-46

5.8.2.16.1 Create Server Certificate

If it is your first time to use this function, please follow the steps listed below.

In Figure 5-46, click 

button, input country name, state name and etc. Click Create button. See Figure 5-47.

Note

Please make sure the IP or domain information is the same as your device IP or domain name.

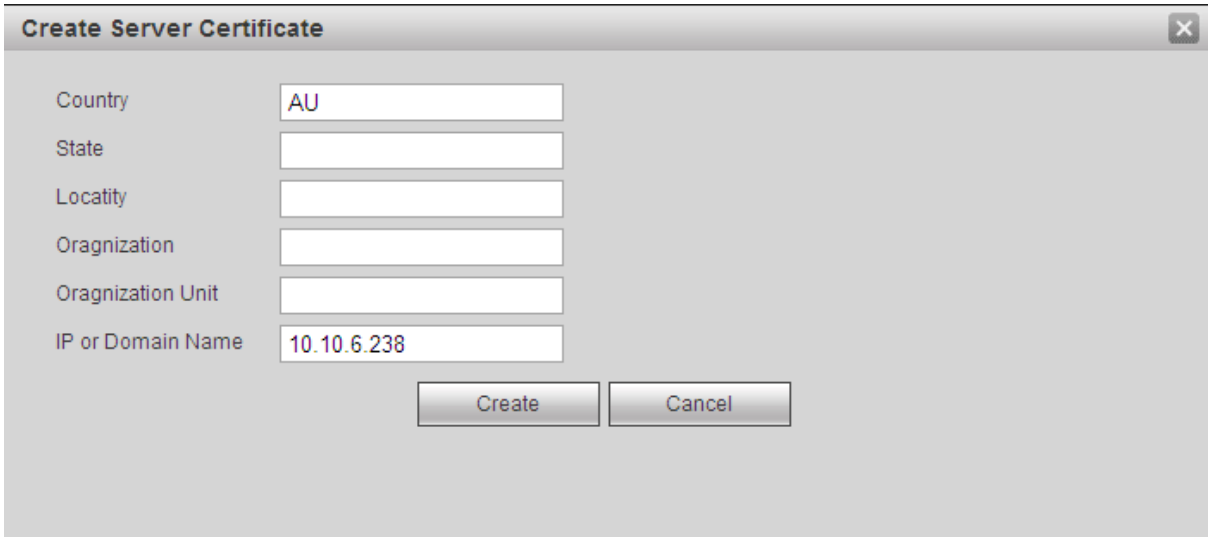


Figure 5-47

You can see the corresponding prompt. See Figure 5-48. Now the server certificate is successfully created.

Figure 5-48

5.8.2.16.2 Download root certificate

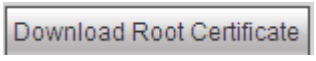
In Figure 5-46, click  button, system pops up a dialogue box. See Figure 5-49.

Figure 5-49

Click Open button, you can go to the following interface. See Figure 5-50.

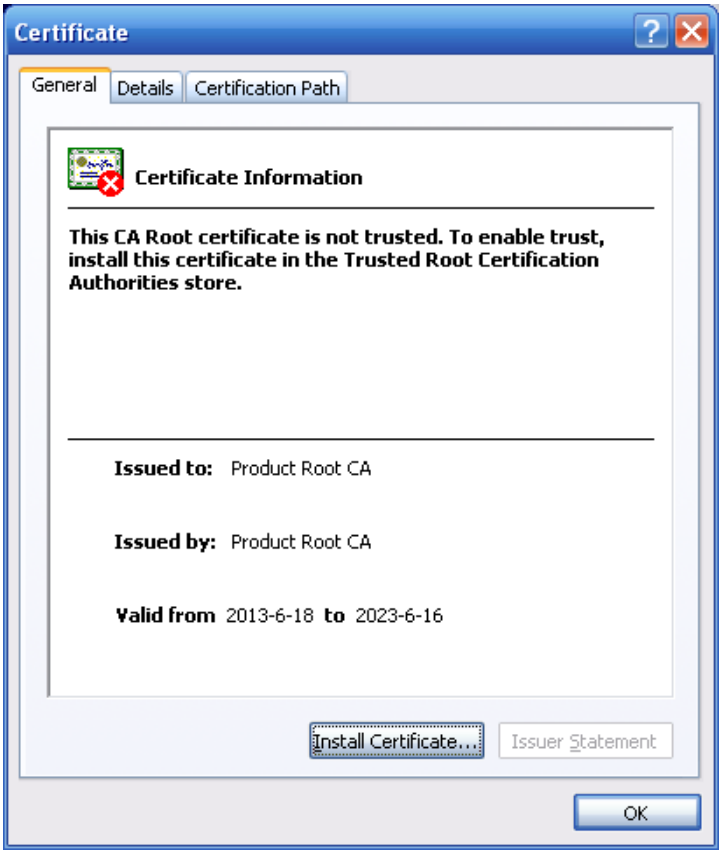


Figure 5-50

Click Install certificate button, you can go to certificate wizard. See Figure 5-51.

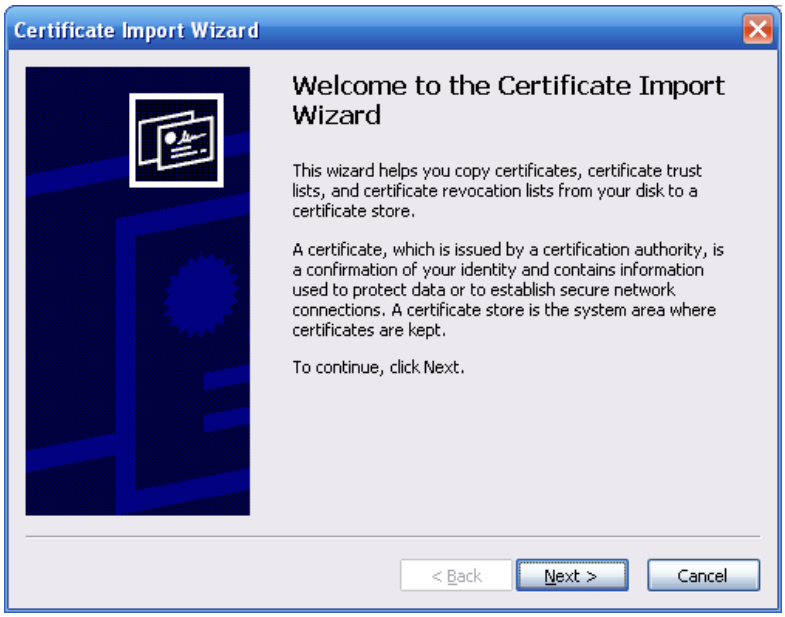


Figure 5-51

Click Next button to continue. Now you can select a location for the certificate. See Figure 5-52.

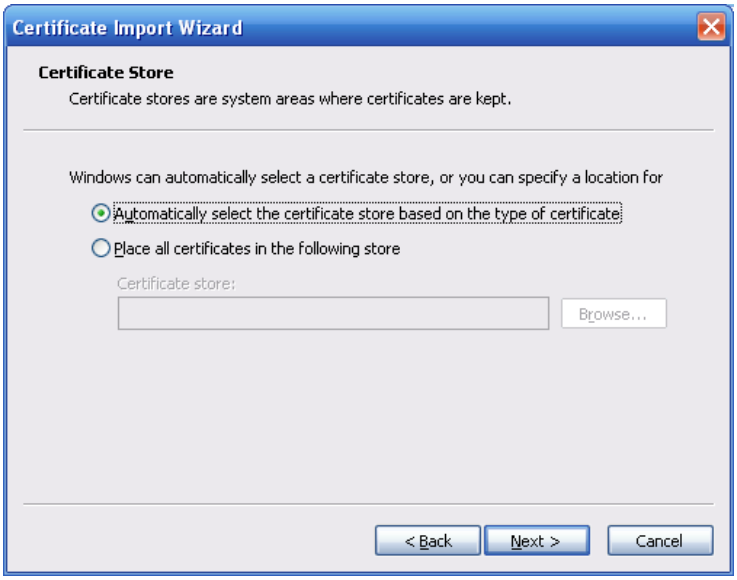


Figure 5-52

Click Next button, you can see the certificate import process is complete. See Figure 5-53.

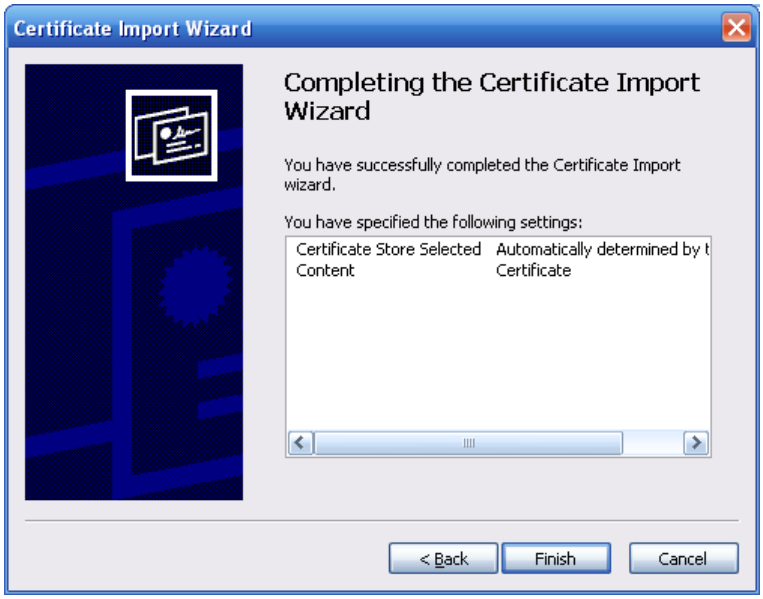


Figure 5-53

Click Finish button, you can see system pops up a security warning dialogue box. See Figure 5-54.

Figure 5-54

Click Yes button, system pops up the following dialogue box, you can see the certificate download is complete. See Figure 5-55.

Figure 5-55

5.8.2.16.3 View and set HTTPS port

From Setup->Network->Connection, you can see the following interface. See Figure 5-56. You can see HTTPS default value is 443.

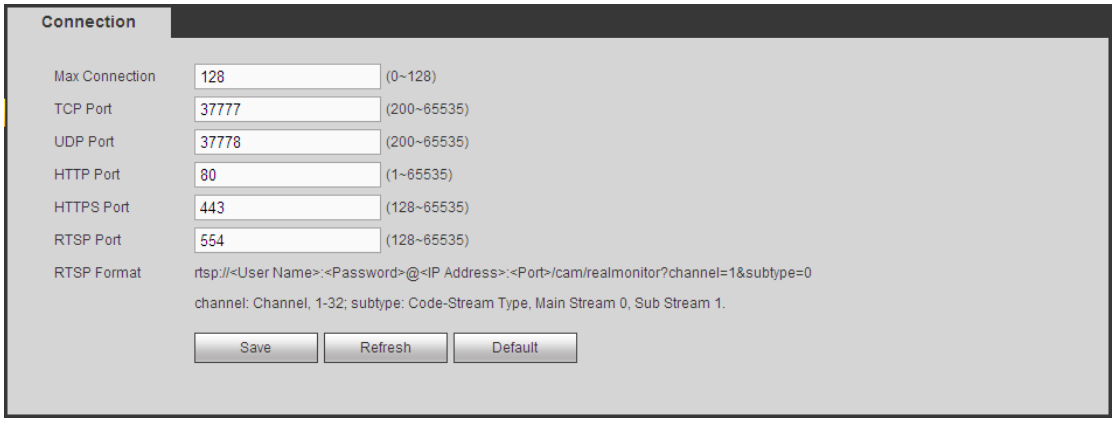


Figure 5-56

5.8.2.16.4 Login

Open the browser and then input https://xx.xx.xx.xx:port.

xx.xx.xx.xx: is your device IP or domain mane.

Port is your HTTPS port. If you are using default HTTPS value 443, you do not need to add port information here. You can input https://xx.xx.xx.xx to access.

Now you can see the login interface if your setup is right.

5.8.3 Event

5.8.3.1 Video detect

5.8.3.1.1 Motion Detect

The motion detect interface is shown as in Figure 5-57.

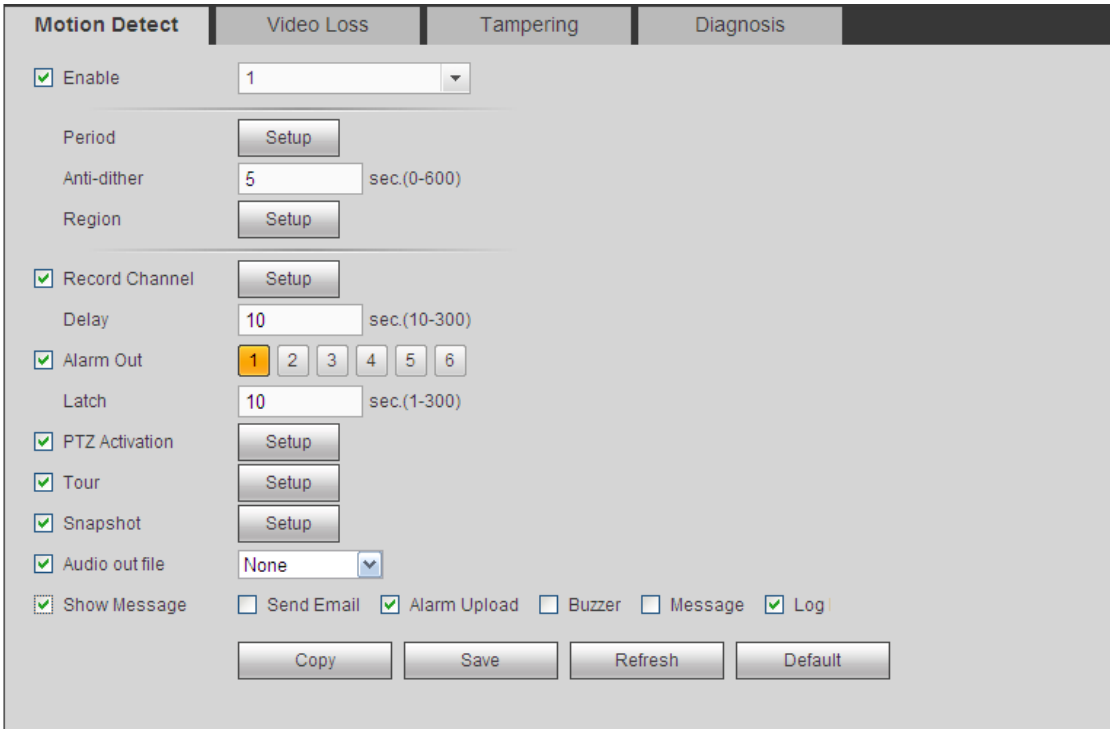


Figure 5-57

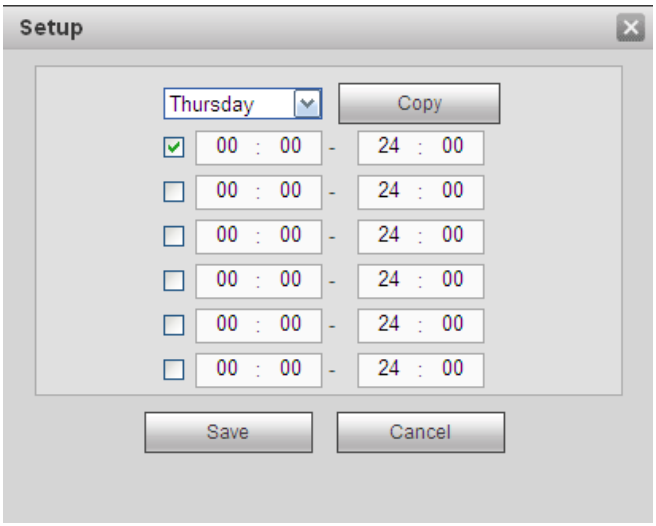


Figure 5-58

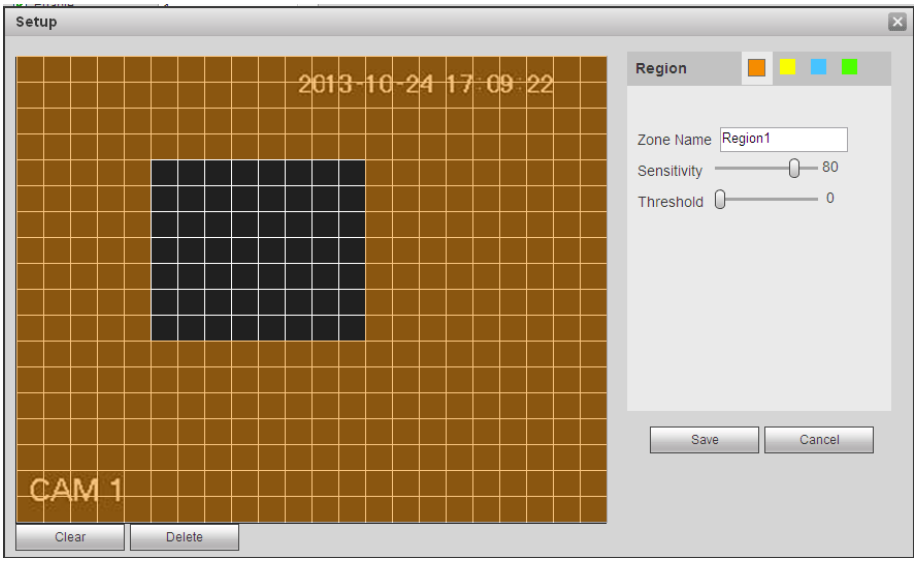


Figure 5-59

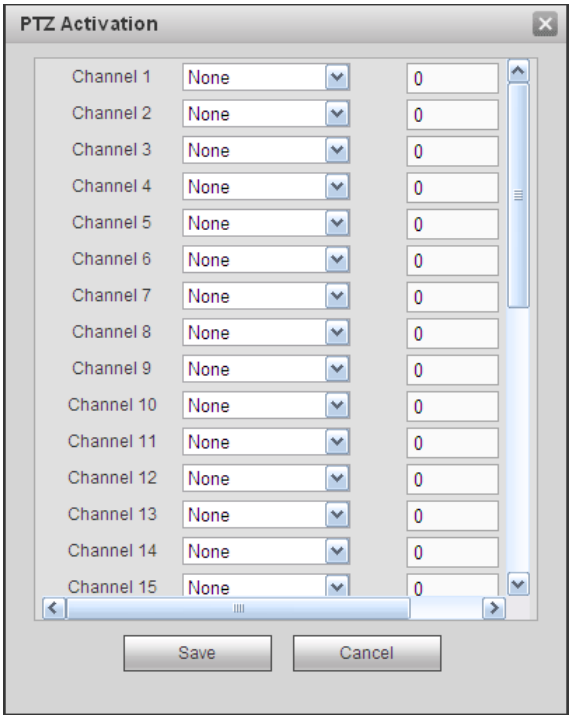


Figure 5-60

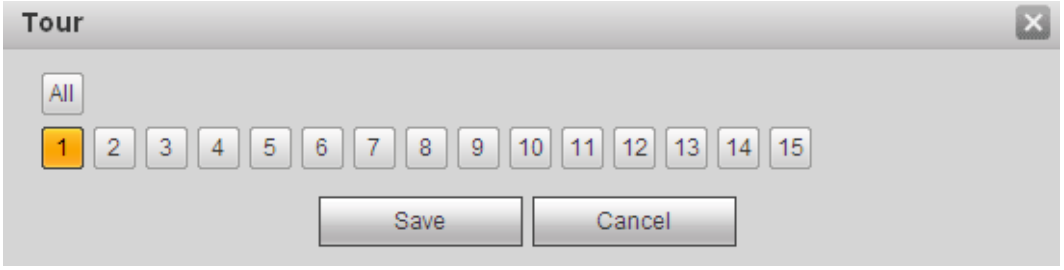


Figure 5-61

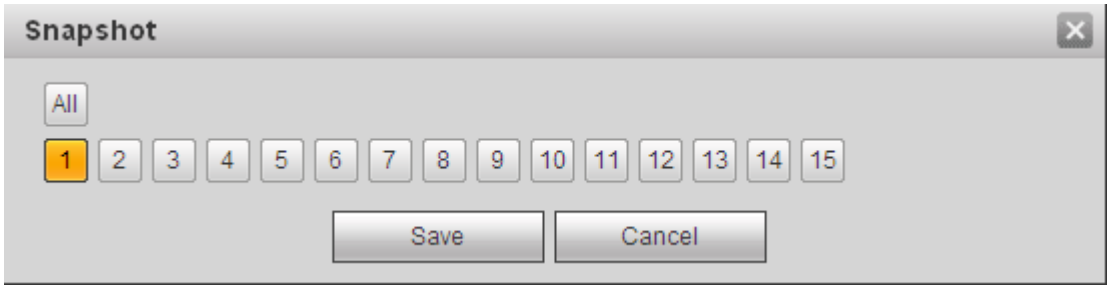


Figure 5-62

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	You need to check the box to enable motion detection function. Please select a channel from the dropdown list.
Period	Motion detection function becomes activated in the specified periods. See Figure 5-58. There are six periods in one day. Please draw a circle to enable corresponding period. Click OK button, system goes back to motion detection interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensitivity	There are six levels. The sixth level has the highest sensitivity.
Region	If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in Figure 5-59. Here you can set motion detection zone. There are four zones for you to set. Please select a zone first and then left drag the mouse to select a zone. The corresponding color zone displays different detection zone. You can click Fn button to switch between the arm mode and disarm mode. In arm mode, you can click the direction buttons to move the green rectangle to set the motion detection zone. After you completed the setup, please click ENTER button to exit current setup. Do remember click save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set motion detect record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show	System can pop up a message to alarm you in the local host

Parameter	Function
message	screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Message	When 3G/4G network connection is OK, system can send out a message when motion detect occurs.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
PTZ Activation	Here you can set PTZ movement when an alarm occurs. Such as go to preset X. See Figure 5-60.
Tour	You need to check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. See Figure 5-61.
Snapshot	You need to check the box here to enable this function. You can set corresponding channel to snapshot when motion detect alarm occurs. See Figure 5-62.
Video Matrix	This function is for motion detect only. Check the box here to enable video matrix function. Right now system supports one-channel tour function. System takes "first come and first serve" principle to deal with the activated tour. System will process the new tour when a new alarm occurs after previous alarm ended. Otherwise it restores the previous output status before the alarm activation.
Log	Check the box here, system can record motion detect event log.

5.8.3.1.2Video Loss

The video loss interface is shown as in Figure 5-63.

After analysis video, system can generate a video loss alarm when the detected moving signal reached the sensitivity you set here.

Please note video loss does not support anti-dither, sensitivity, region setup. For rest setups, please refer to chapter 5.8.3.1.1 motion detect for detailed information.

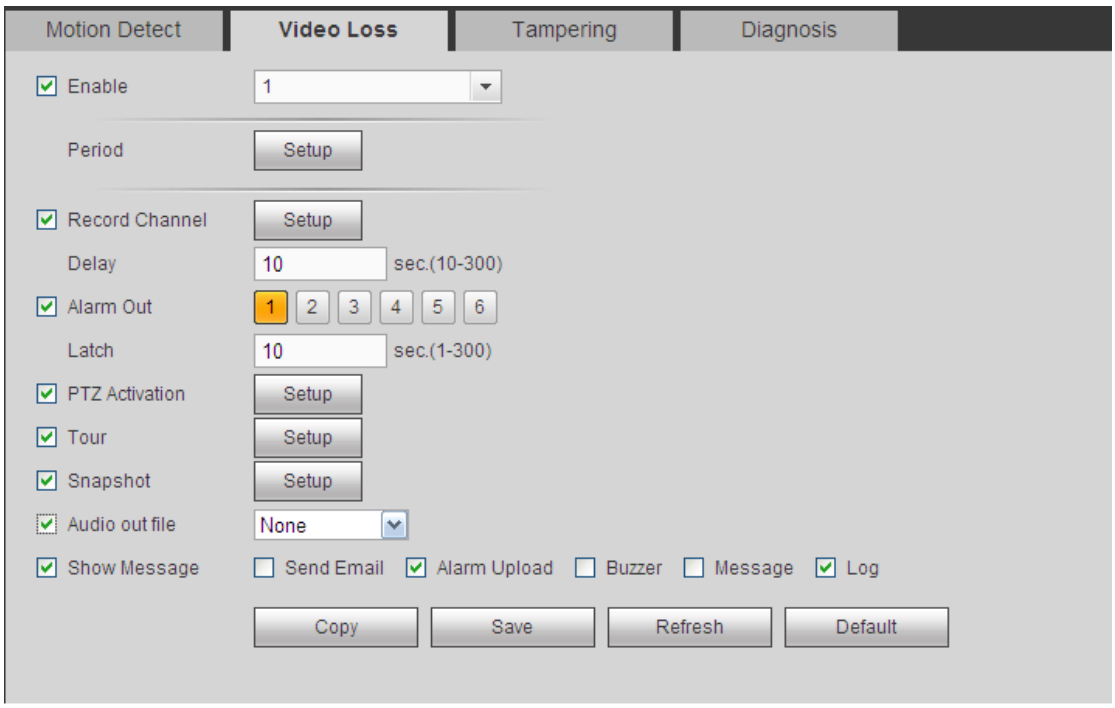


Figure 5-63

5.8.3.1.3Tampering

The tampering interface is shown as in Figure 5-64.

After analysis video, system can generate a tampering alarm when the detected moving signal reached the sensitivity you set here.

For detailed setups, please refer to chapter 5.8.3.1.1 motion detect for detailed information.

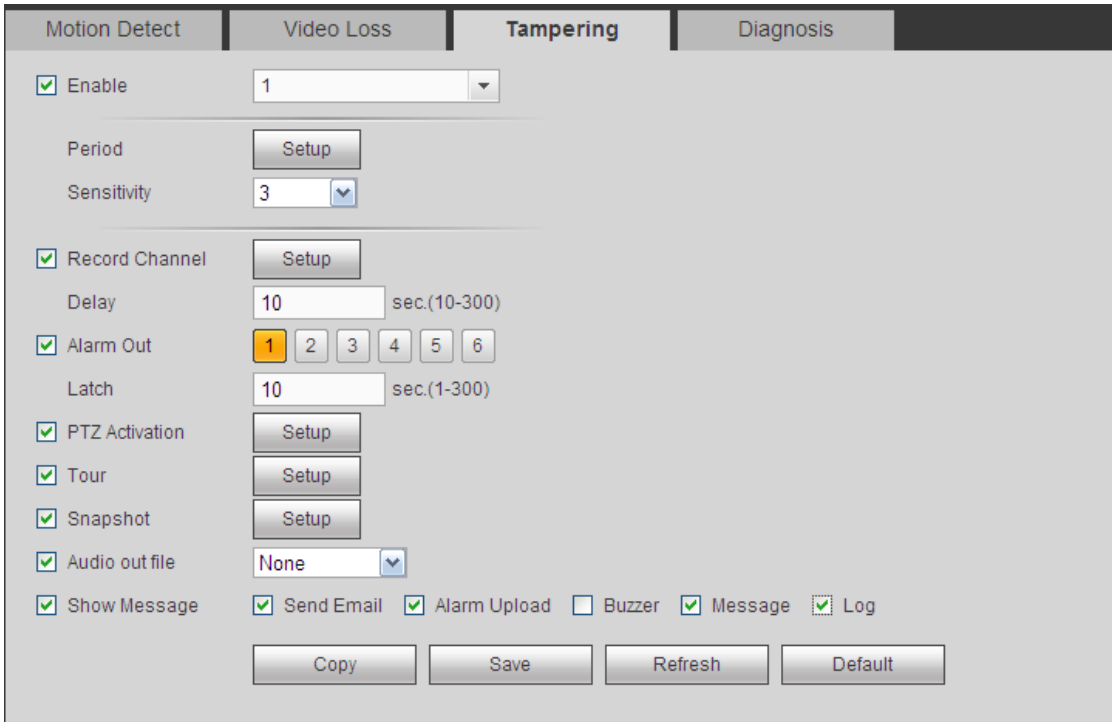


Figure 5-64

5.8.3.1.4 Diagnosis

System can trigger an alarm when the stripe, noise, color cast, out of focus, over exposure event occurred. See Figure 5-65.

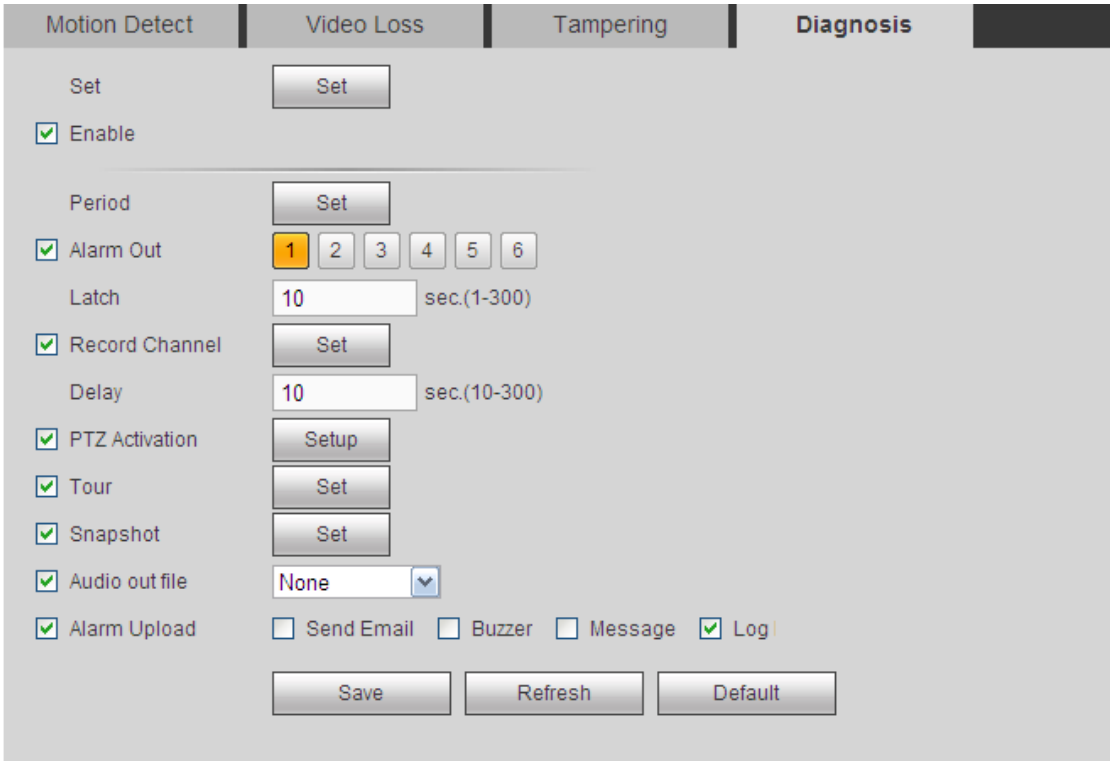


Figure 5-65

Click Set button, you can check the corresponding box to select diagnosis type. See Figure 5-66.

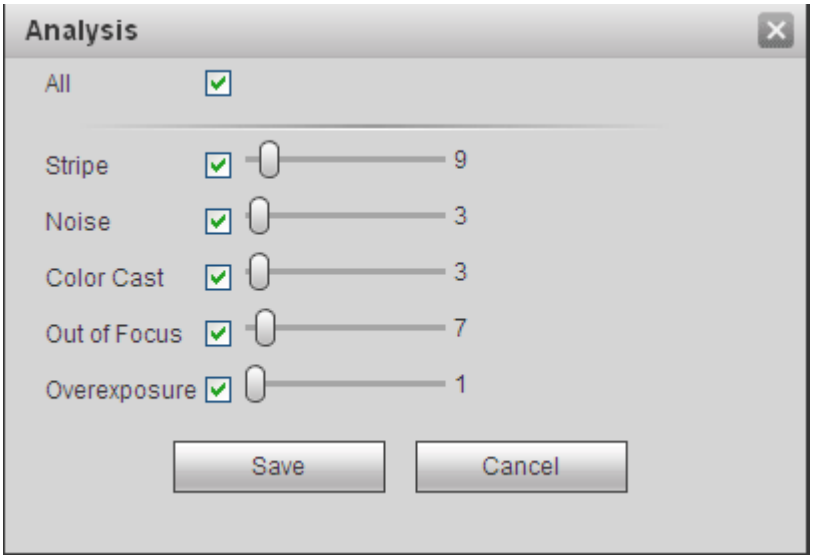


Figure 5-66

Note

Video diagnosis alarm can trigger PTZ preset, tour, and pattern.

For detailed setups, please refer to chapter 5.8.3.1.1 motion detect for detailed information.

5.8.3.2 Alarm

Before operation, please make sure you have properly connected alarm devices such as buzzer. The input mode includes local alarm and network alarm. For digital channel, there is IPC external alarm and IPC offline alarm.

5.8.3.2.1Local Alarm

The local alarm interface is shown as in Figure 5-67. It refers to alarm from the local device.

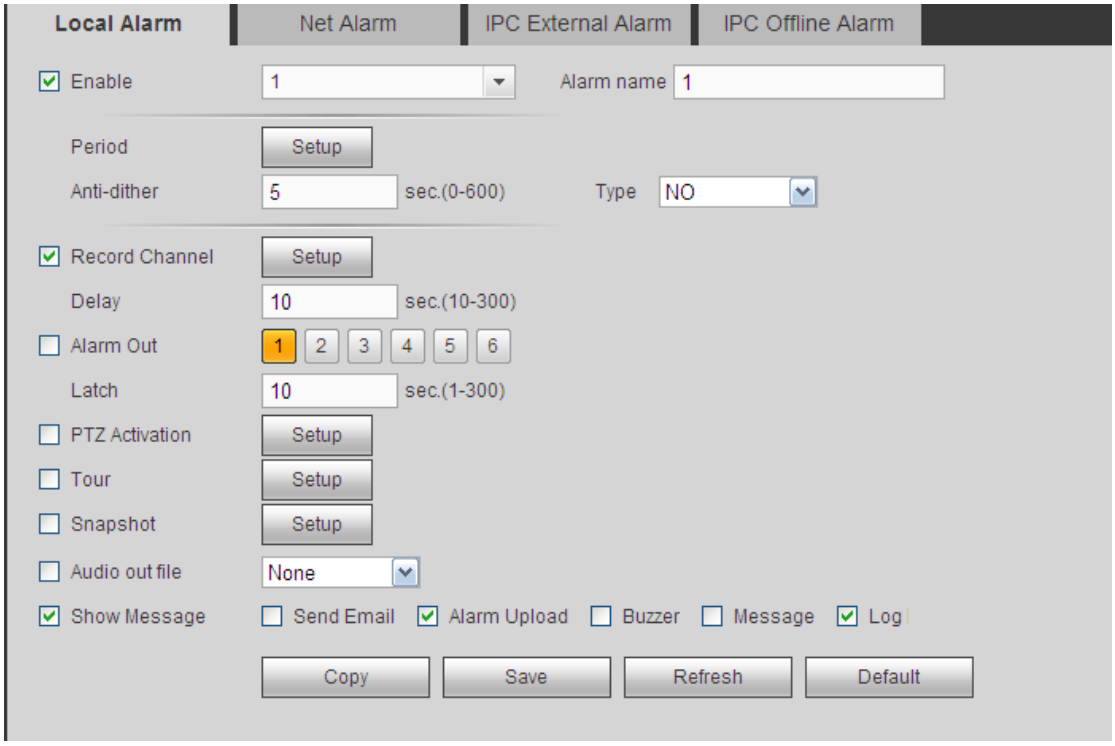


Figure 5-67

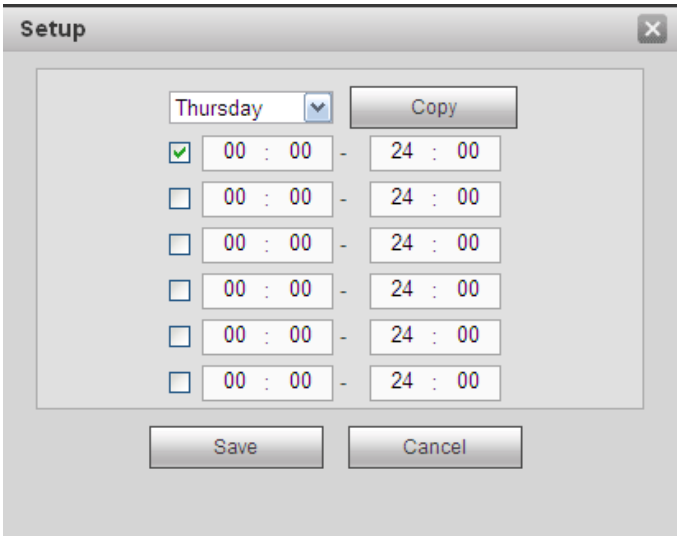


Figure 5-68

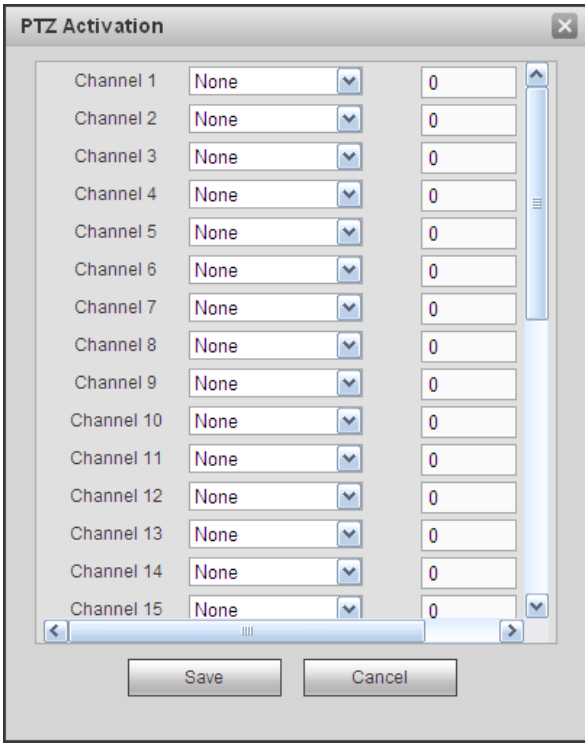


Figure 5-69

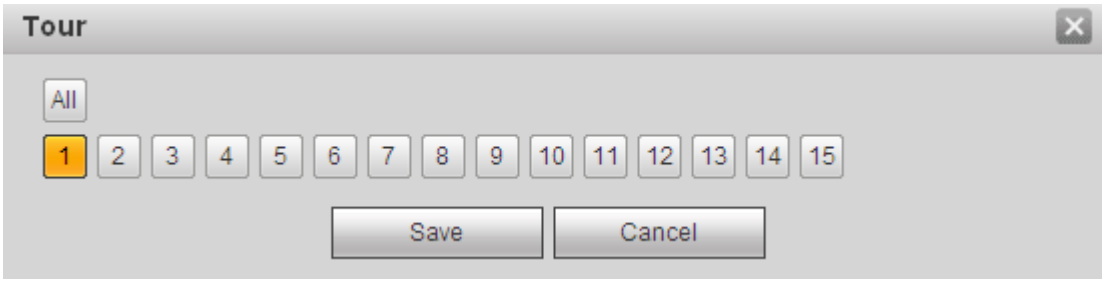


Figure 5-70

Figure 5-71

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	You need to check the box to enable this function. Please select a channel from the dropdown list.
Period	This function becomes activated in the specified periods.

Parameter	Function
	There are six periods in one day. Please draw a circle to enable corresponding period. Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week. Click OK button, system goes back to local alarm interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensor type	There are two options: NO/NC.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set alarm record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre).
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
PTZ Activation	Here you can set PTZ movement when an alarm occurs. Such as go to preset X. See Figure 5-69.
Tour	You need to check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. See Figure 5-70.
Snapshot	You need to check the box here to enable this function. You can set corresponding channel to snapshot when motion detect alarm occurs. See Figure 5-71.
Log	Check the box here, system can record motion detect event log.

5.8.3.2.2Net Alarm

The network alarm interface is shown as in Figure 5-72.

Network alarm refers to the alarm signal from the network. System does not anti-dither

and sensor type setup. For setup information, please refer to chapter 5.8.3.2.1.

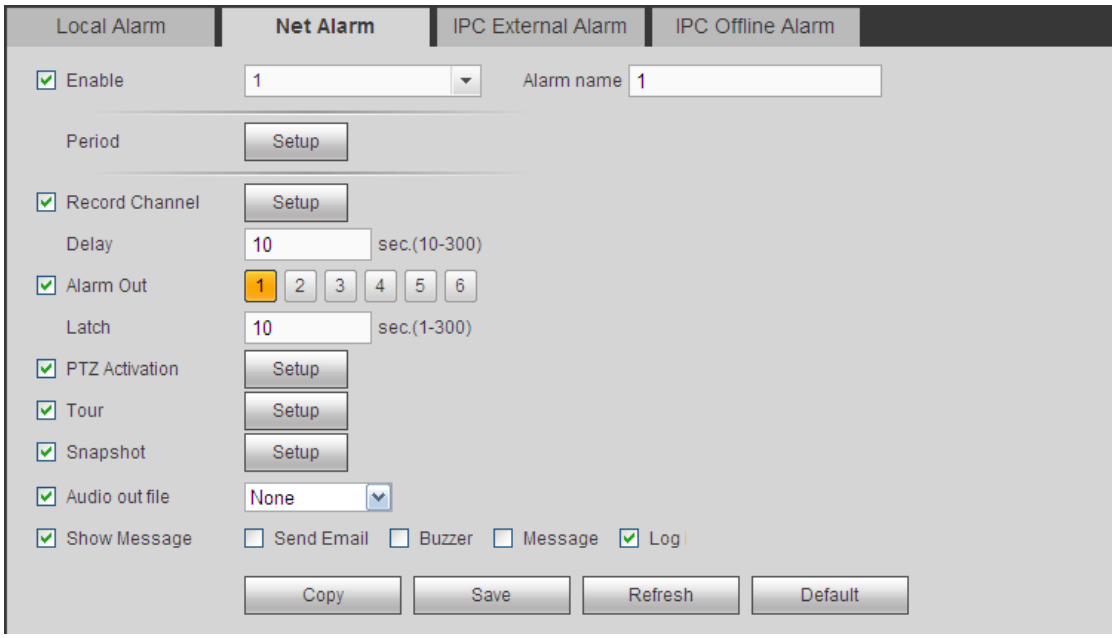


Figure 5-72

5.8.3.2.3IPC External Alarm

IPC external alarm interface is shown as below. See Figure 5-73. For setup information, please refer to chapter 5.8.3.2.1.

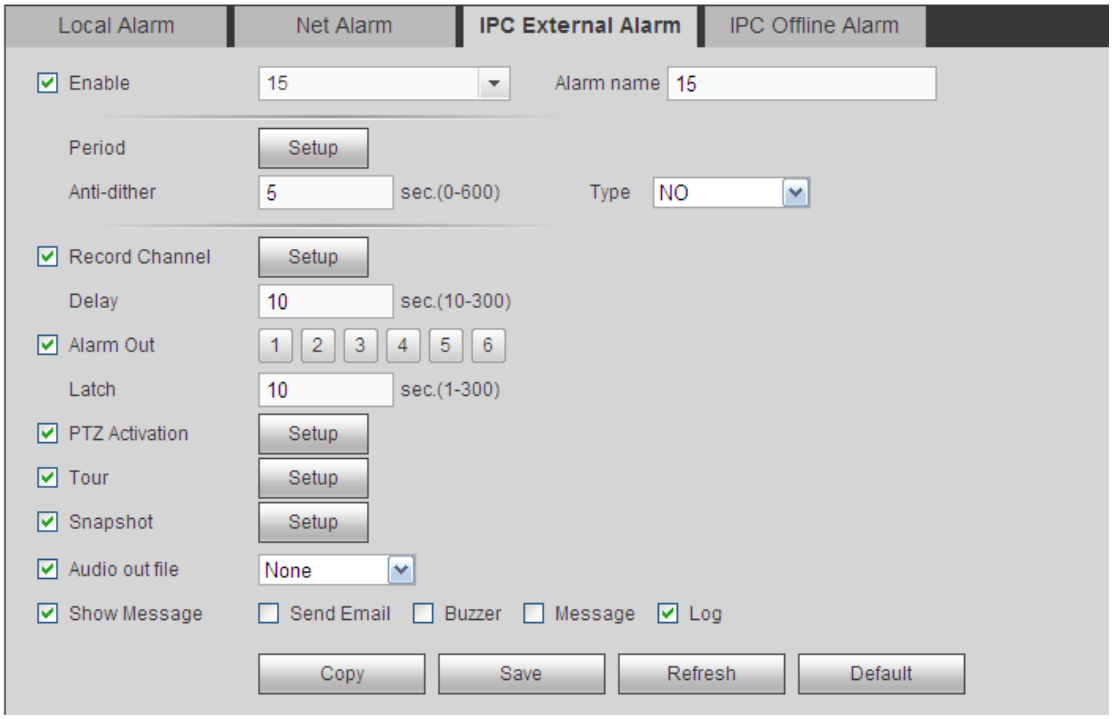


Figure 5-73

5.8.3.2.4IPC Offline Alarm

IPC offline alarm is shown as in Figure 5-74. For setup information, please refer to chapter

5.8.3.2.1.

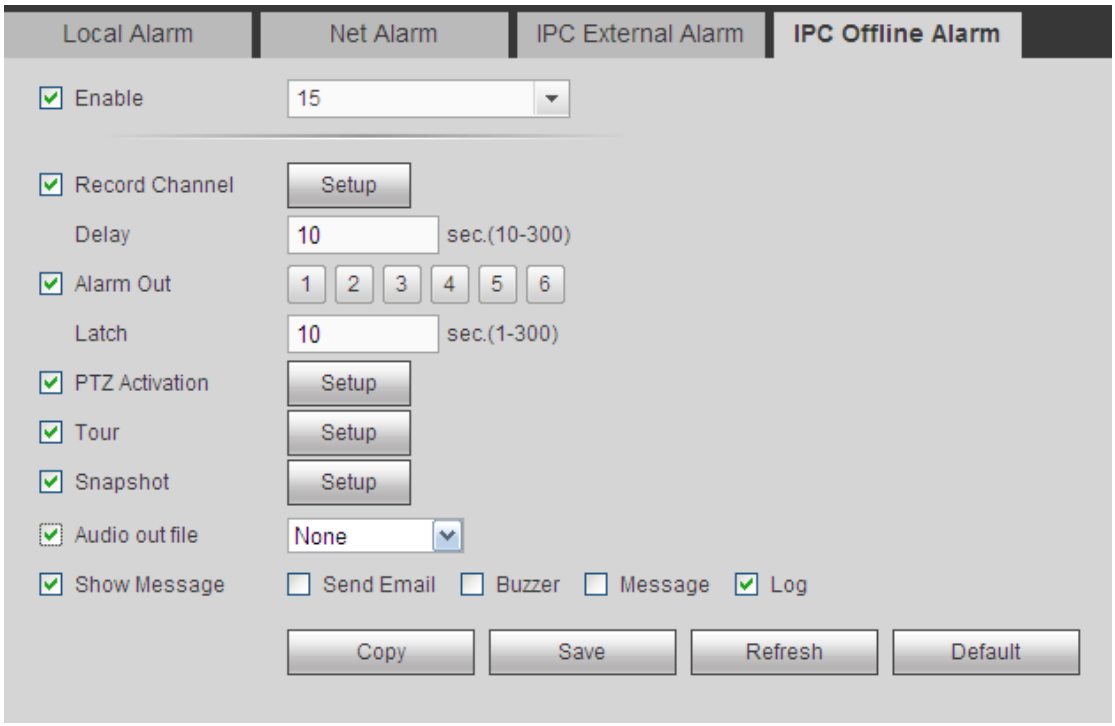


Figure 5-74

5.8.3.3 Alarm Output

It is to set alarm output mode. See Figure 5-75.

Figure 5-75

5.8.3.4 Abnormality

It includes two types: HDD/Network. See Figure 5-76 through Figure 5-79.

- HDD includes: No disk, disk error, disk no space.
- Network includes net disconnection, IP conflict, MAC conflict and illegal login.

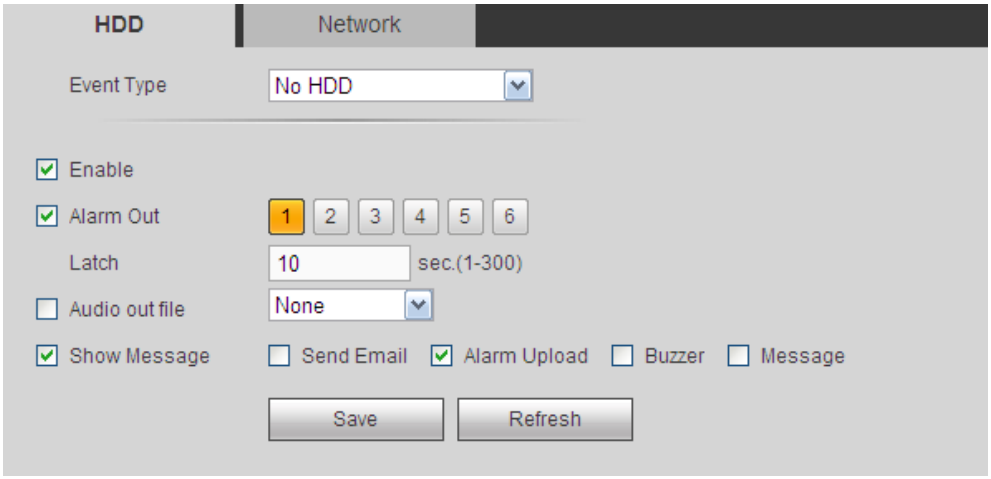


Figure 5-76

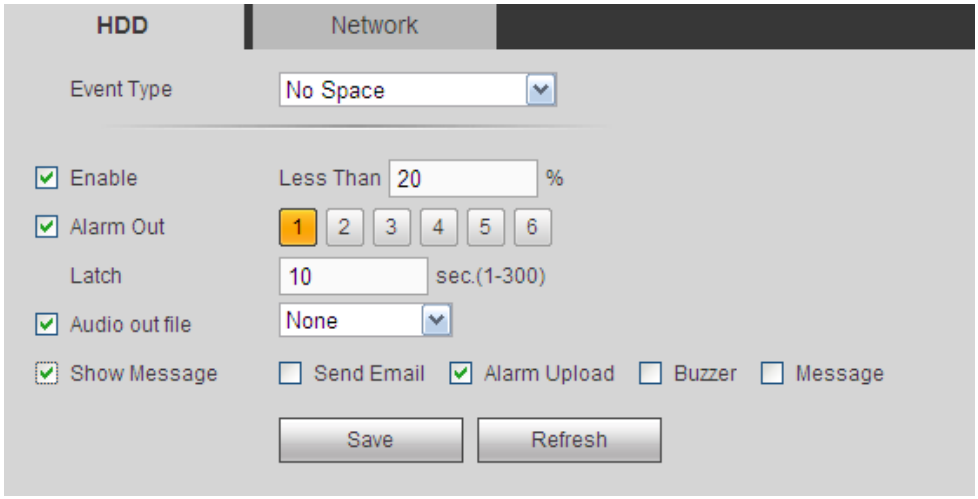


Figure 5-77

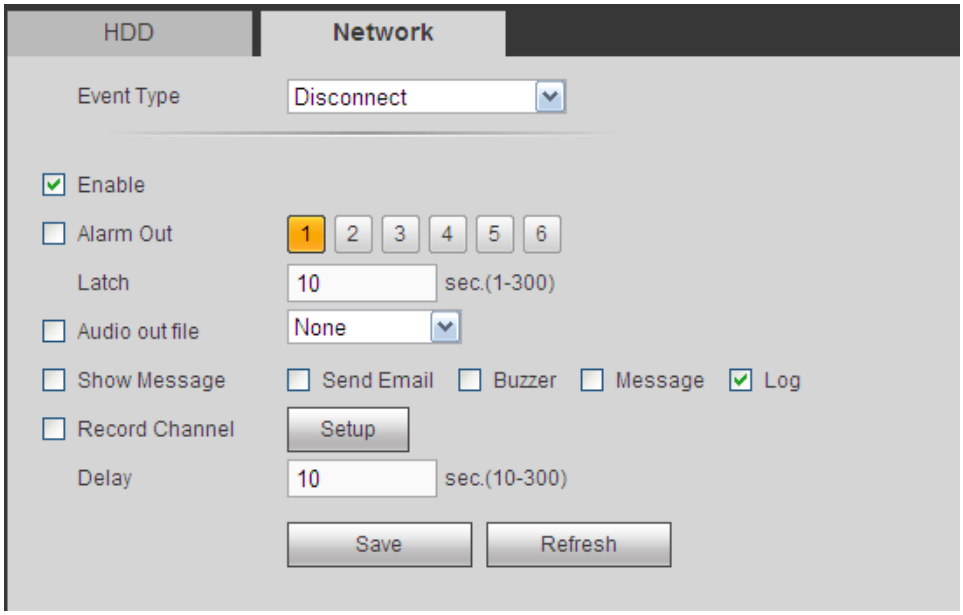


Figure 5-78

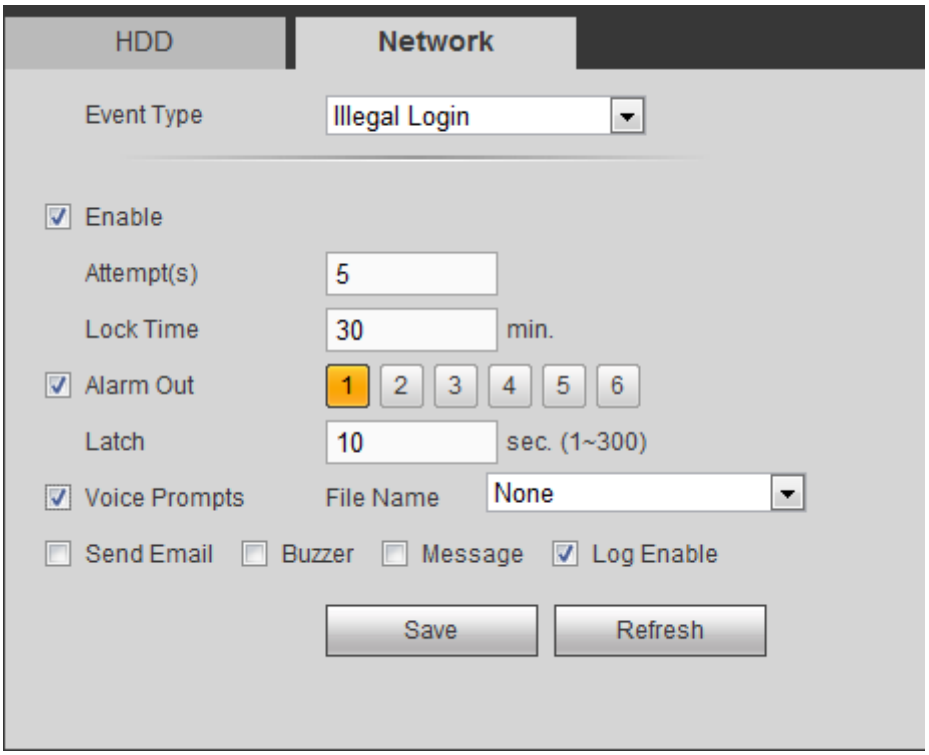


Figure 5-79

Please refer to the following sheet for detailed information.

Parameter	Function
Event Type	The abnormal events include: No disk, disk error, disk no space, net disconnection, IP conflict and MAC conflict. You can set one or more items here. Less than: You can set the minimum percentage value here (For disk not space only). The device can alarm when capacity is not sufficient. You need to draw a circle to enable this function.
Enable	Check the box here to enable selected function.
Alarm Out	Please select corresponding alarm output channel when an alarm occurs. You need to check the box to enable this function.
Latch	The alarm output can delay for the specified time after an alarm stops. The value ranges from 1s to 300s.
Attempt(s)	It is to set login attempt times. Once the login attempt exceeds the threshold you set here, current account will be locked. This function is illegal login only.
Lock time	It is to set account lock time once its login attempt has exceeded the threshold you set. This function is for illegal login only.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.

Parameter	Function
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Log	Check the box here, system can record the network event alarm log.

5.8.4 Storage

5.8.4.1 Schedule

In this interfaces, you can add or remove the schedule record setup. See Figure 5-80.

There are three record modes: general (auto), motion detect and alarm. There are six periods in one day.

You can view the current time period setup from the color bar.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot.
- Red color stands for the alarm record/snapshot.
- Blue color stands for MD&alarm record/snapshot.
- Orange color stands for intelligent record/snapshot.

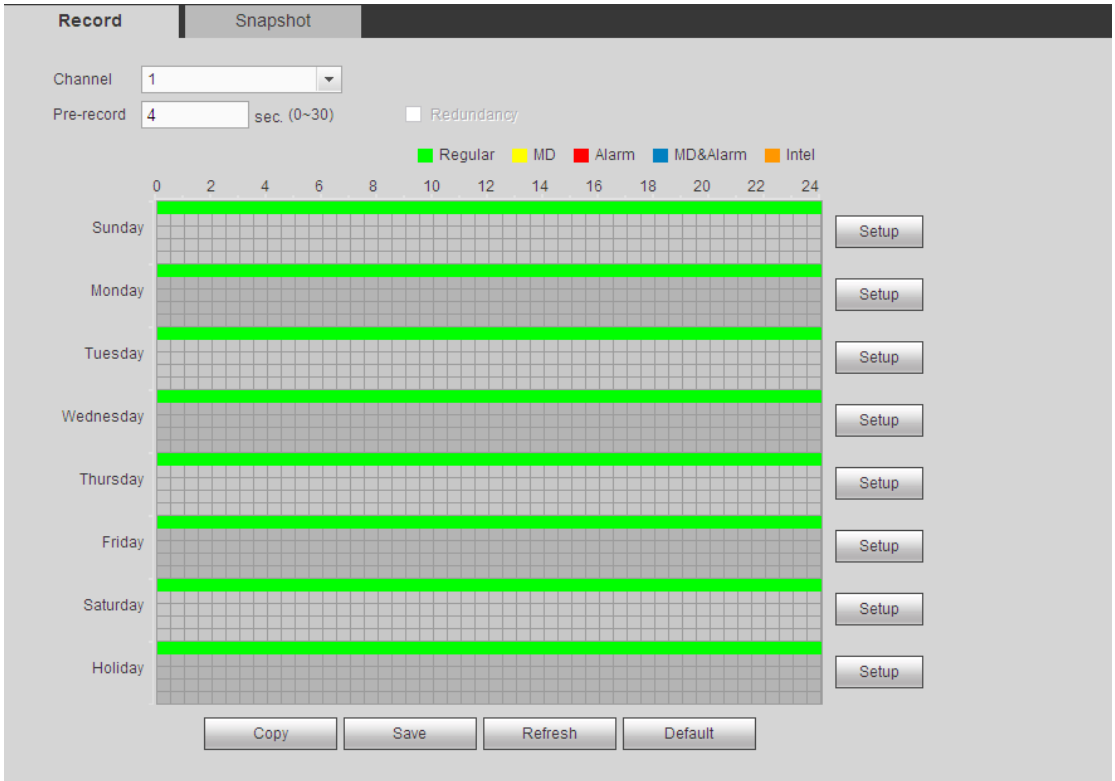


Figure 5-80

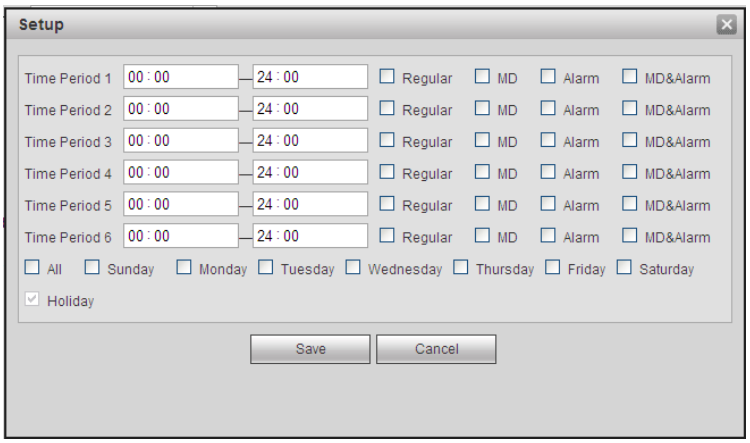


Figure 5-81

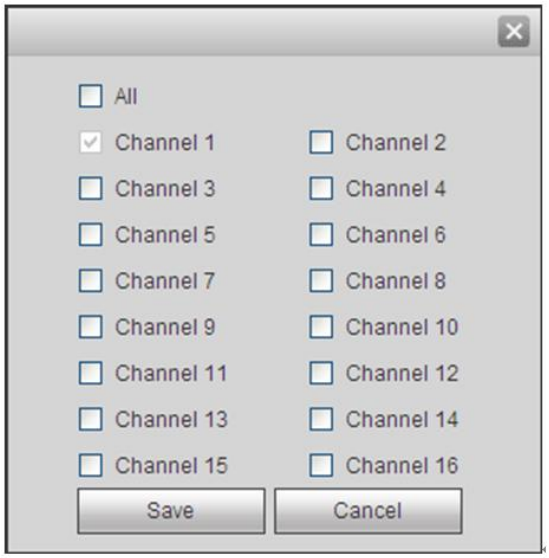


Figure 5-82

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Please select a channel from the dropdown list.
Pre-record	Please input pre-record time here. The value ranges from 0 to 30.
Redundancy	Check the box here to enable redundancy function. **Please note this function is null if there is only one HDD.**
Snapshot	Check the box here to enable snapshot function.
Holiday	Check the box here to enable holiday function.
Setup (Sunday to Saturday)	Click the Setup button, you can set record period. See Figure 5-81. There are six periods in one day. If you do not check the date at the bottom of the interface, current setup is for today only. Please click Save button and then exit.
Setup	Click the Setup button, you can set record period. See Figure 5-81.

Parameter	Function
(Holiday)	There are six periods in one day. If you check Holiday box, current channel shall record as your holiday setup here.
Copy	Copy function allows you to copy one channel setup to another. After setting in channel, click Copy button, you can go to interface Figure 5-82. You can see current channel name is grey such as channel 1. Now you can select the channel you want to paste such as channel 5/6/7. If you want to save current setup of channel 1 to all channels, you can click the first box "ALL". Click the OK button to save current copy setup. Click the OK button in the Encode interface, the copy function succeeded.

5.8.4.2 Local Storage

The local interface is shown as in Figure 5-83. Here you can see HDD information. You can also operate the read-only, read-write, redundancy (if there are more than on HDD) and format operation.

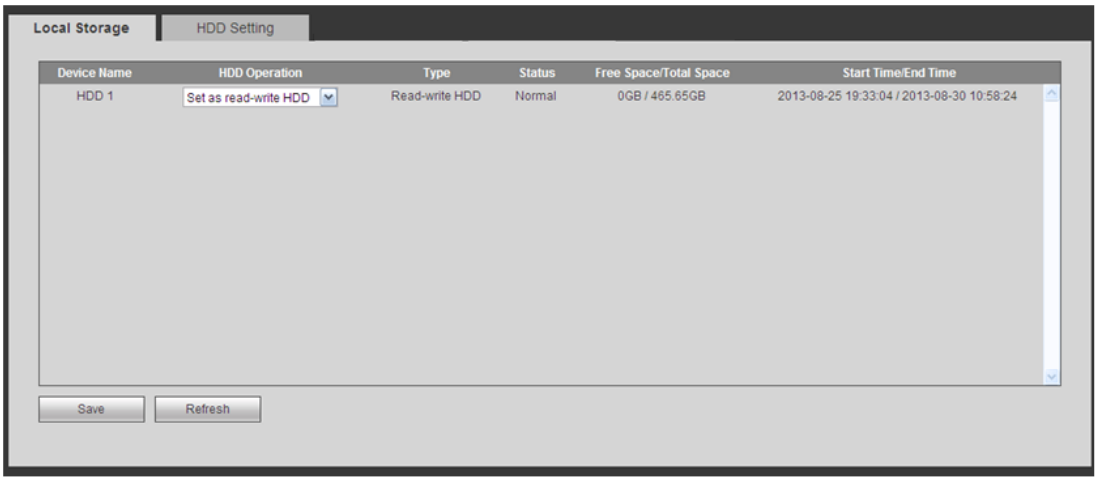


Figure 5-83

5.8.4.2.1 HDD Setting

Here is for you to set HDD group. See Figure 5-84.

Figure 5-84

5.8.4.3 Manual Record

The interface is shown as in Figure 5-85.

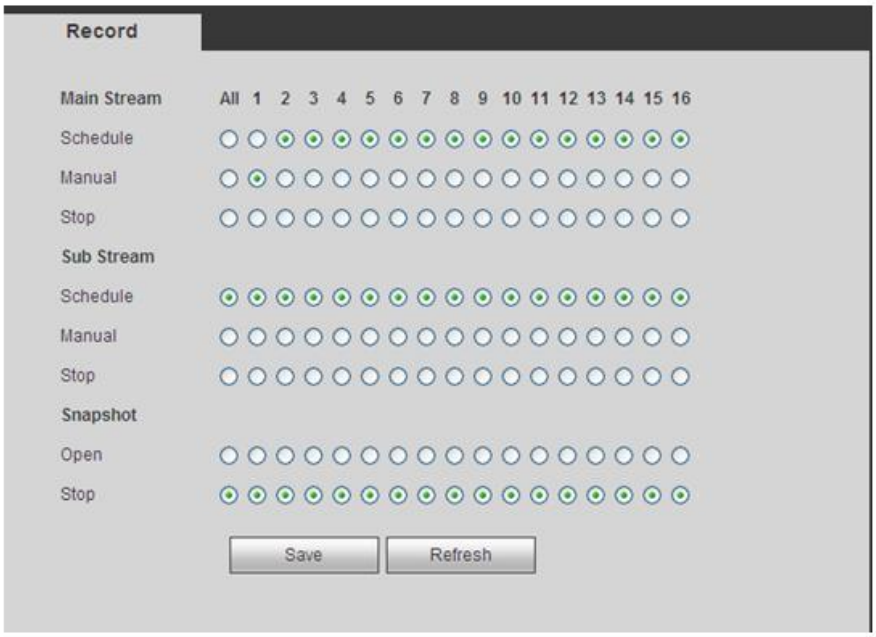


Figure 5-85

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Here you can view channel number. The number displayed here is the max channel amount of your device.
Status	There are three statuses: schedule, manual and stop.
Schedule	System enables auto record function as you set in record schedule setup (general, motion detect and alarm).
Manual	It has the highest priority. Enable corresponding channel to record no matter what period applied in the record setup.
Stop	Stop current channel record no matter what period applied in the record setup.
Start all/ stop all	Check the corresponding All button, you can enable or disable all channels record.

5.8.4.4 Advanced

5.8.4.4.1 HDD

Here is for you to set HDD group. See Figure 5-86.

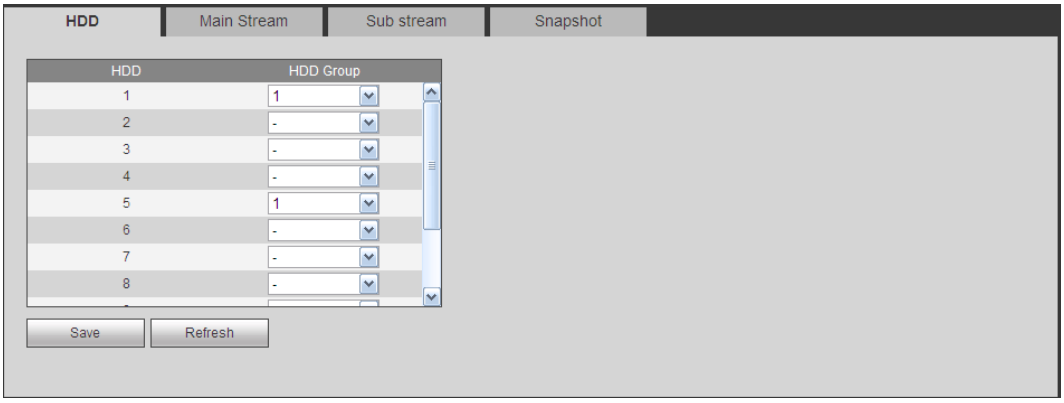


Figure 5-86

5.8.4.4.2 Main Stream

The main stream interface is shown as in Figure 5-87. Here you can set corresponding HDD group to save main stream.

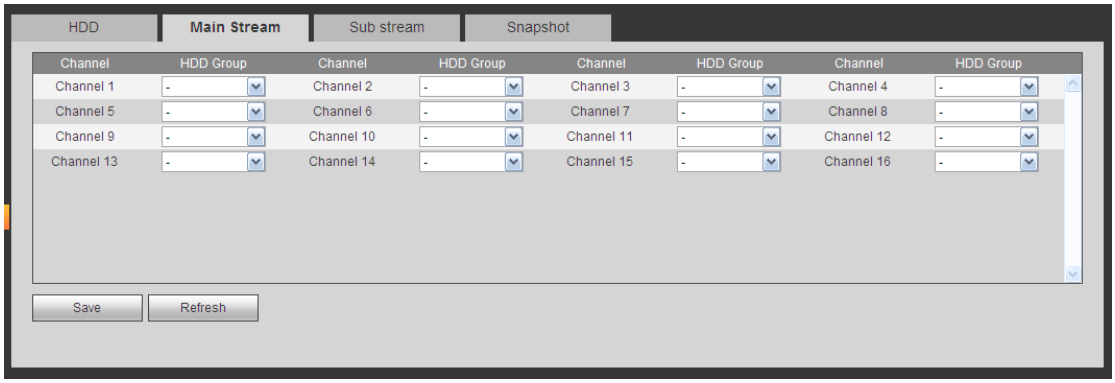


Figure 5-87

5.8.4.4.3 Sub Stream

The sub stream interface is shown as in Figure 5-88.

Here you can set corresponding HDD group to save sub stream.

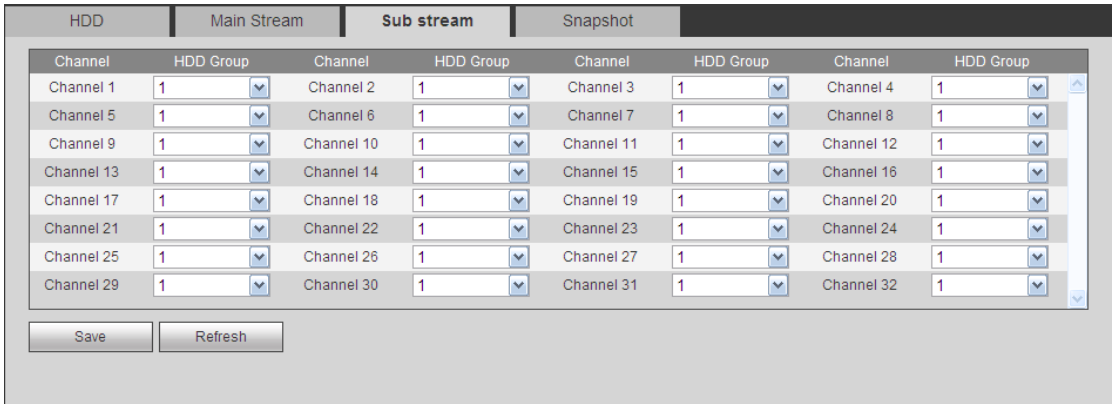


Figure 5-88

5.8.4.4.4 Snapshot

The snapshot interface is shown as in Figure 5-89. Here you can set corresponding HDD group to save snapshot picture.

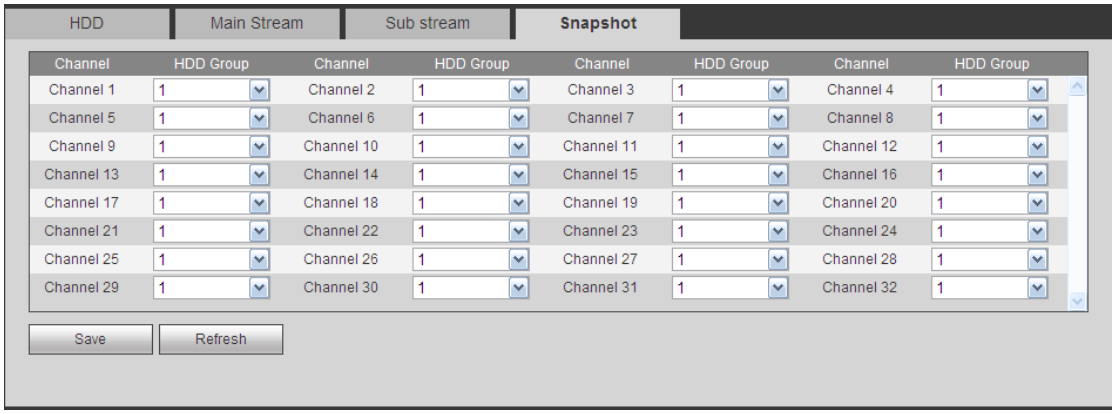


Figure 5-89

5.8.4.5 Quota

It is to set channel storage capacity. See Figure 5-90.

Select a channel from the dropdown list and then select corresponding HDD quota.

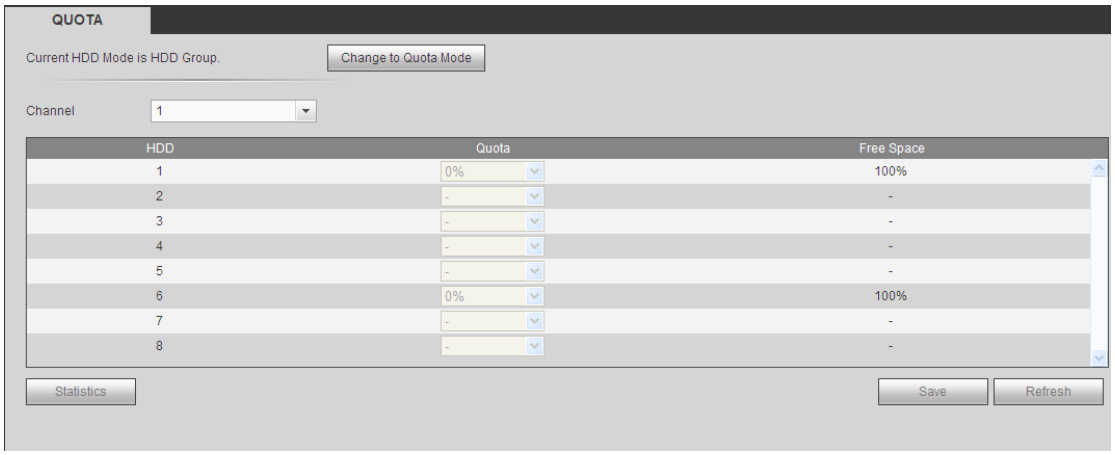


Figure 5-90

5.8.4.6 ISCSI

This function is for some series product only.

Comparing with the traditional local HDD storage, ISCSI has larger space and it is easy to manage.

In this interface you can set mapping network so that the device can use the network disk to storage. See Figure 5-91.

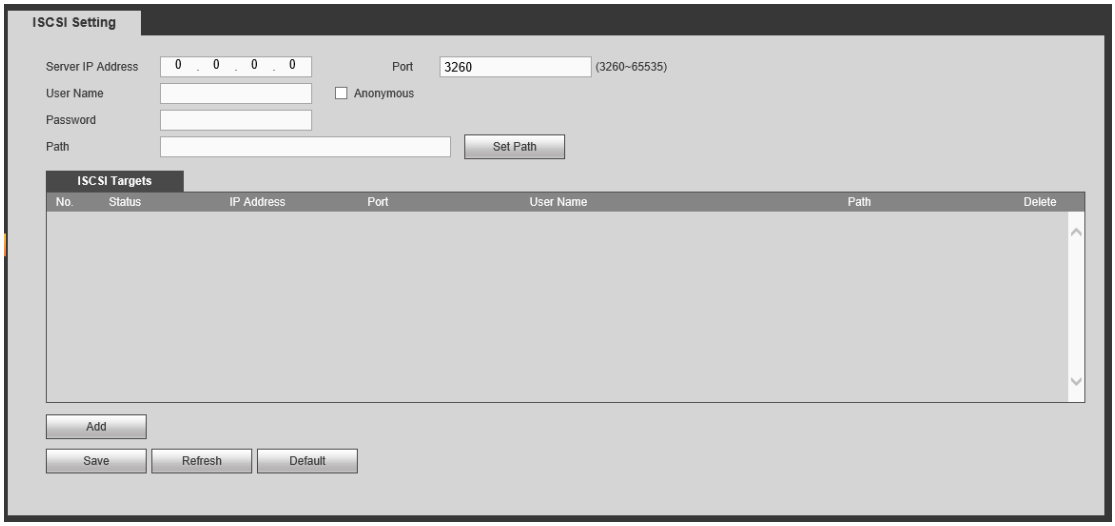


Figure 5-91

Please refer to the following sheet for detailed information.

Parameter	Function
Server IP	It is to input ISCSI server IP address.
Port	It is to input ISCSI server port value. The default setup is 3260.
User name/password	It is to input ISCSI server user name and password. Check the Anonymous button if it supports anonymous login.
Set path	You can click the Set path button to select the remote storage path. Please note each path here stands for one ISCSI share disk. The path has been generated when it is created at the server.
Add	After you input the above information, click add button to add the new information to the list.

5.8.4.7 RAID

RAID function is for some series product such as advanced 1080P 2U RAID series only. Right now system supports RAID0/RAID1/RAID5/RAID10. Please refer to Appendix G for detailed information.

5.8.4.7.1 RAID Config

The RAID configuration interface is shown as in Figure 5-92. In this interface, you can set RAID type and settings.

- Create manually: Check HDD manually to crate RAID.
- Create RAID: Click it to automatically create RAID.

For create RAID function, you can select the physical HDD that does not included in the RAID group or the created disk array to create a RADI5. You can refer to the following situations:

- There is no RAID, no hotspare disk: System directly creates the RAID5 and creates one hotspare disk at the same time.
- There is no RAID, but there is a hotspare disk: System creates the RAID5 only. It uses previous hotspare disk.
- There is RAID: System cancel the previous RAID setup and then create the new

RAID5. System creates the hotspare disk if there is no one. System uses previous hotspare disk if there is hotspare disk available.

- The background will format the virtual disk.

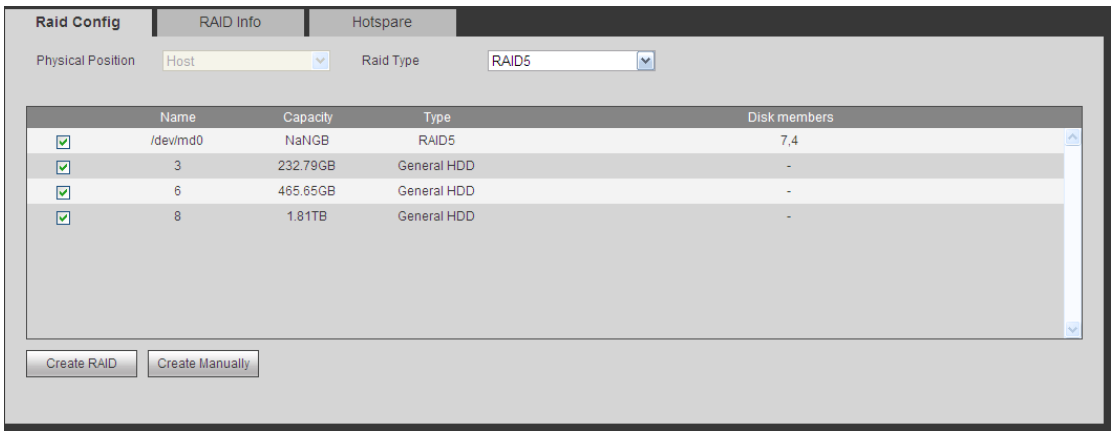


Figure 5-92

5.8.4.7.2RAID Info

It is to display RAID name, space, type, member HDD, hotspare HDD, status and etc. Here you can delete RAID. See Figure 5-93.

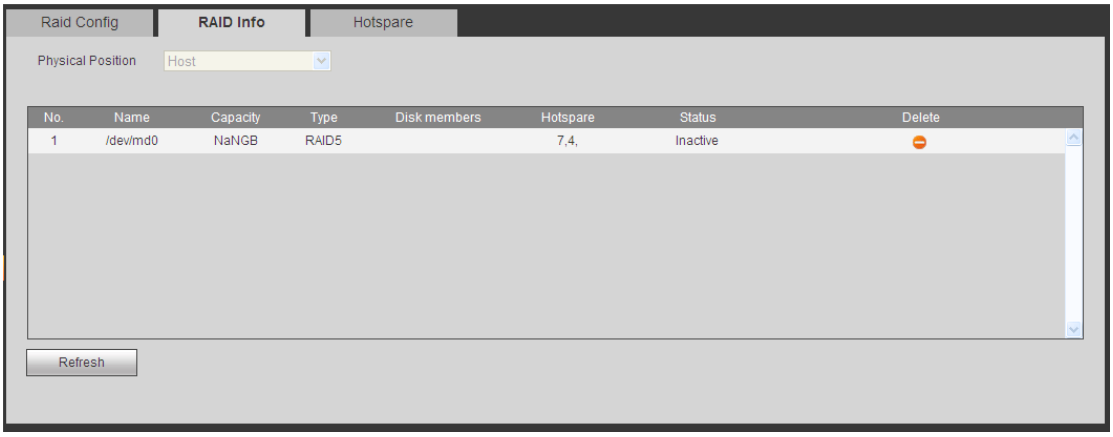


Figure 5-93

5.8.4.7.3Hotspare HDD

In this interface you can add/delete hotspare HDD. See Figure 5-94.

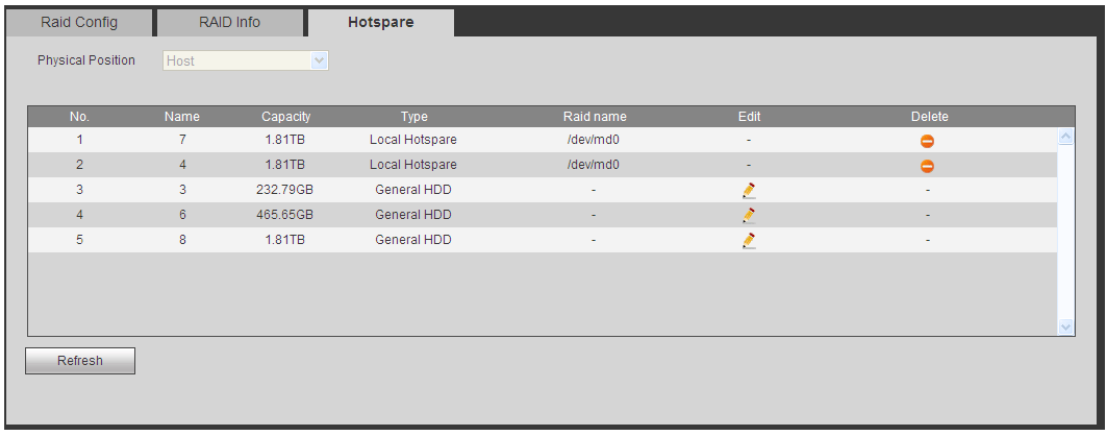


Figure 5-94

Click , you can set corresponding disk to the hotspare disk.

- Private hotspare: Please select the RAID disk to be added. It becomes the hotspare disk of the specified RAID.
- Global hotspare: It is not for just one RAID. It is for all RAID disks.

Tips

Click the to delete the hotspare disk.

5.8.5 System

5.8.5.1 General

The general interface includes general, date/time and holiday setup.

5.8.5.1.1General

The general interface is shown as in Figure 5-95.

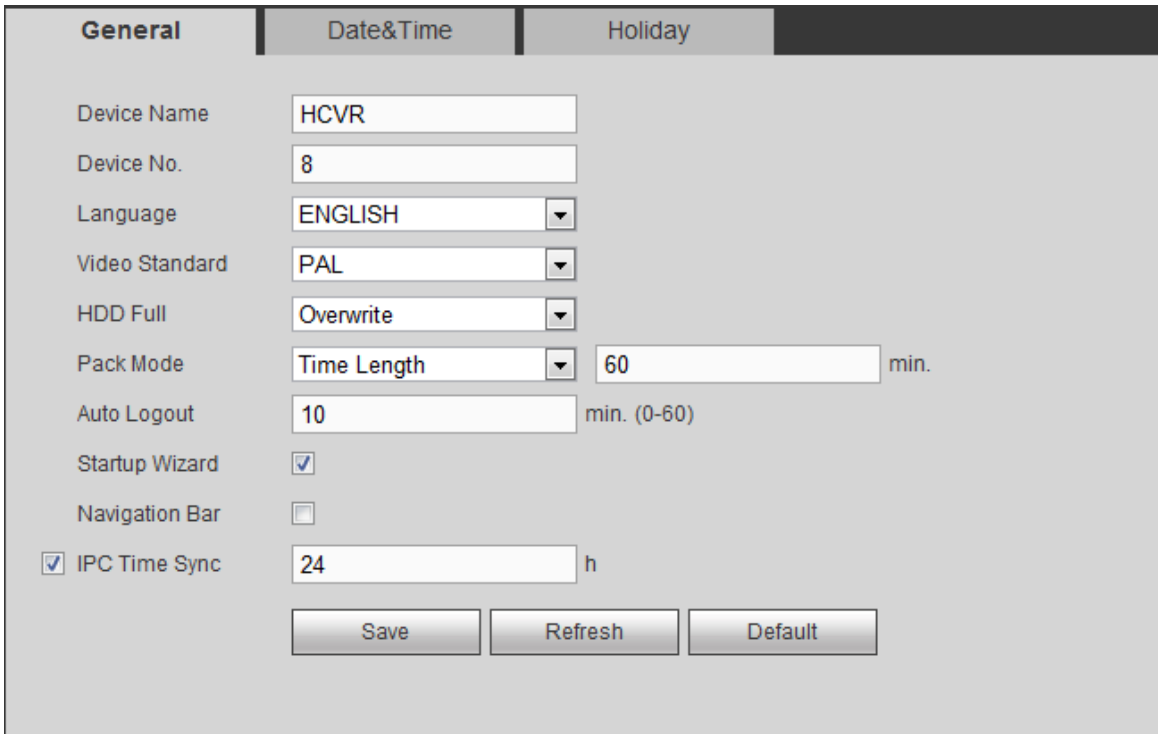


Figure 5-95

Please refer to the following sheet for detailed information.

Parameter	Function
Device ID	It is to set device name.
Device No.	It is device channel number.
Language	You can select the language from the dropdown list. **Please note the device needs to reboot to get the modification activated.**
Video	This is to display video standard such as PAL.

Standard	
HDD full	Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
Pack mode	It is for you to specify record duration. There are two modes: Time length/File length. ➢ Time length: It is to pack according to time length. The value ranges from 1 to 60 minutes. Default value is 60 minutes. ➢ File length: It is to pack according to file length. The value ranges from 128M to 2048M. Default value is 1024M.
Auto logout	Here is for you to set auto logout interval once login user remains inactive for a specified time. Value ranges from 0 to 60 minutes.
Startup wizard	Once you check the box here, system will go to the startup wizard directly when the system restarts the next time. Otherwise, it will go to the login interface.
Navigation bar	Check the box here, system displays the navigation bar on the interface.
IPC Time Sync	You can input an interval here to synchronize the DVR time and IPC time.

5.8.5.1.2 Date and time

The date and time interface is shown as in Figure 5-96

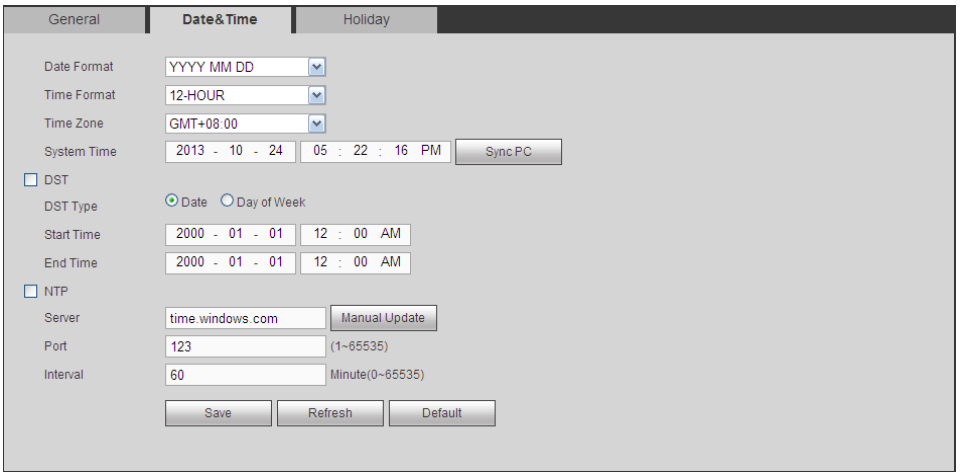


Figure 5-96

Please refer to the following sheet for detailed information.

Parameter	**Function**
Date format	Here you can select date format from the dropdown list.
Time Format	There are two options: 24-H and 12-H.

Time zone	The time zone of the device.
System time	It is to set system time. It becomes valid after you set.
Sync PC	You can click this button to save the system time as your PC current time.
DST	Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format.
NTP	You can check the box to enable NTP function.
NTP server	You can set the time server address.
Port	It is to set the time server port.
Interval	It is to set the sync periods between the device and the time server.

5.8.5.1.3Holiday Setup

Holiday setup interface is shown as in Figure 5-97.

Here you can click Add box to add a new holiday and then click Save button to save.

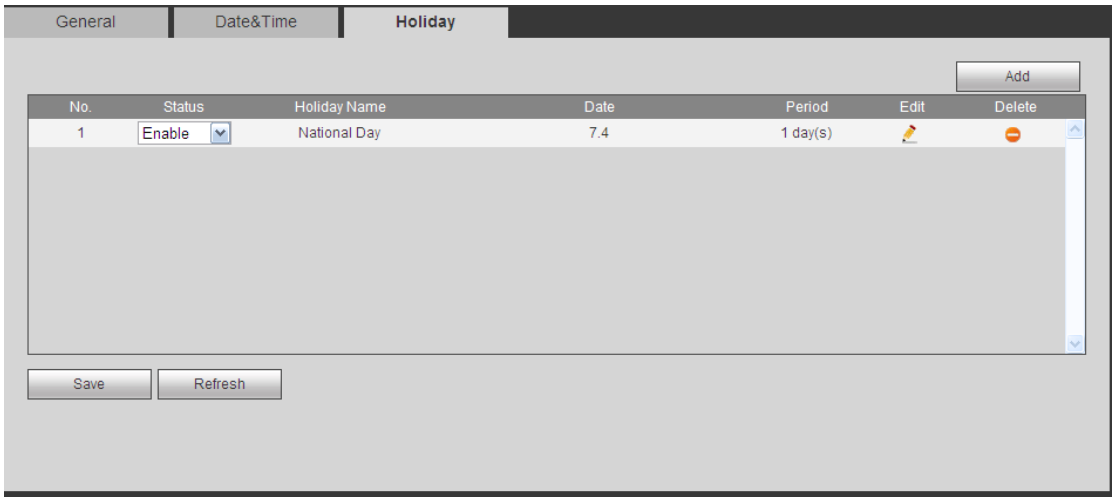


Figure 5-97

5.8.5.2 Display

Display interface includes GUI, TV adjust, Tour and zero-channel encoding.

5.8.5.2.1GUI

Here you can set background color and transparency level. See Figure 5-98.

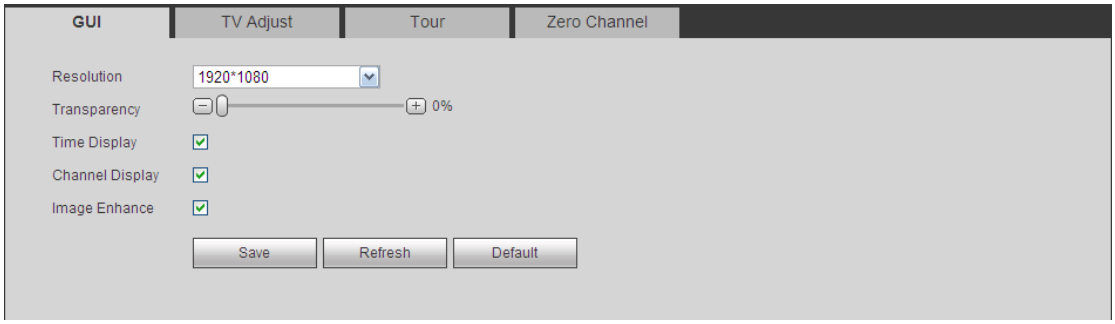


Figure 5-98

Please refer to the following sheet for detailed information.

Parameter	Function
Resolution	There are four options: 1920×1080,1280×1024(default),1280×720,1024×768. Please note the system needs to reboot to activate current setup.
Transparency	Here is for you to adjust menu transparency. The higher the value is, the more transparent the menu is.
Time title/channel title	Check the box here, you can view system time and channel number on the monitor video.
Image enhance	Check the box; you can optimize the preview video effect.

5.8.5.2.2TV Adjust

It is to set TV output region. See Figure 5-99.

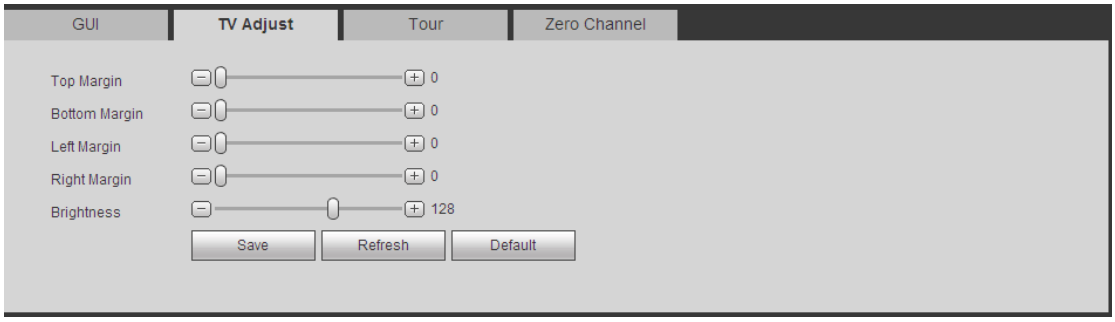


Figure 5-99

5.8.5.2.3Tour

The tour interface is shown as in Figure 5-100. Here you can set tour interval, split mode, motion detect tour and alarm tour mode.

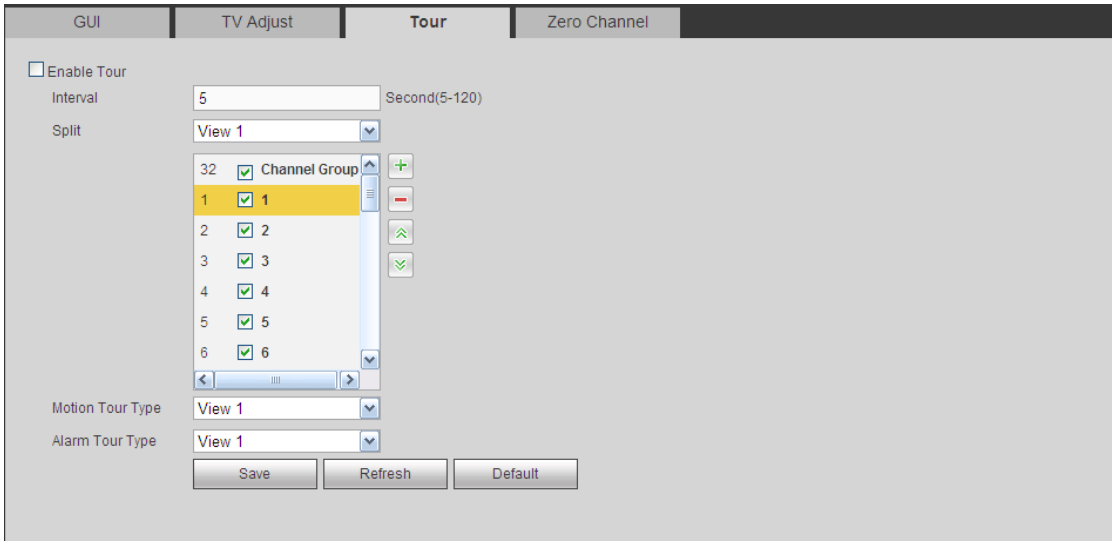


Figure 5-100

Please refer to the following sheet for detailed information.

Parameter	Function
Enable tour	Check the box here to enable tour function.
Interval	Here is for you to adjust transparency. The value ranges from 5 to 120s. The default setup is 5s.
Split	Here you can set window mode and channel group. System can support 1/4/8/9/16/25/36-window according to device channel amount.
Motion tour/Alarm tour	Here you can set motion detect tour/alarm tour window mode. System supports 1/8-window now.

5.8.5.2.4Zero-channel Encoding

The interface is shown as in Figure 5-101.

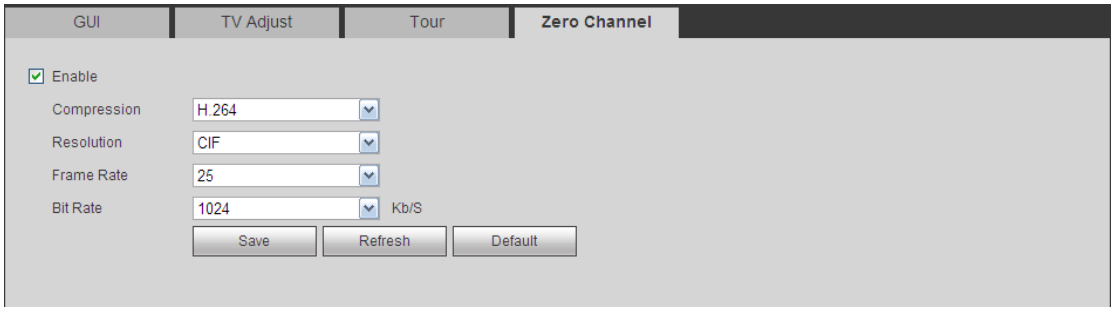


Figure 5-101

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	This function is disabled by default. Check the box here to enable this function so that you can control the zero-channel encoding function at the WEB.
Compression	System default setup is H.264. You can set according to device capability.
Resolution	The resolution value may vary due to different device capabilities. Please select from the dropdown list.
Frame rate	The frame rate value may vary due to different device capabilities. Please select from the dropdown list.
Bit Rate	The default setup is 1024Kb/S. The bit rate value may vary due to different device capabilities and frame rate setups. Please select from the dropdown list.

5.8.5.3 Video Matrix

The interface is shown as in Figure 5-102.

Here you can set video output channel and interval.

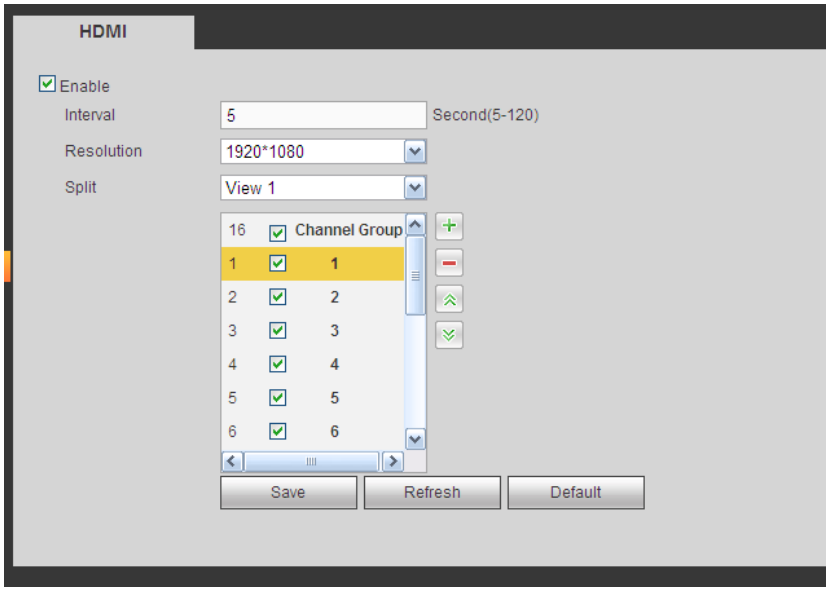


Figure 5-102

Parameter	Function
Enable	Check the box here to enable this function.
Interval	It is to set the interval from current channel group to the next channel group.
Window split	Support 1-window split only.
Delete	Select a channel group and then click to delete it.
Up/Down	Click or to adjust channel tour sequence.

Add channel group

Click ,you can see system pops up the following dialogue box. See Figure 5-103. Please select the channels and then click OK button.

Figure 5-103

Delete channel group

Select a channel group and then click ,you can delete it.

Modify channel group

Select a channel group and then double click, you can see the following interface. See Figure 5-104. You can change the setup and then click OK button.

Figure 5-104

Adjust channel group sequence.

Click  or  to change channel sequence.

5.8.5.4 RS232

The RS232 interface is shown as in Figure 5-105.

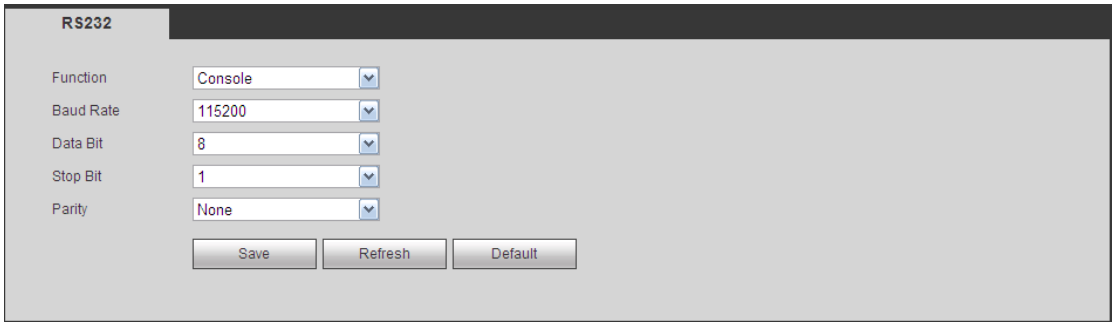


Figure 5-105

Please refer to the following sheet for detailed information.

Parameter	Function
Protocol	Select the corresponding dome protocol. Default setup is console. ● Console is for you to use the COM or mini-end software to upgrade or debug the program. ● The control keyboard is for you to control the device via the special keyboard. ● Transparent COM (adapter) is to connect to the PC to transfer data directly. ● Protocol COM is for card overlay function. ● Network keyboard is for you to use the special keyboard to control the device. ● PTZ matrix is to connect to the peripheral matrix control.
Baud Rate	Select the baud rate. Default setup is 115200.
Data Bit	The value ranges from 5 to 8. Default setup is 8.
Stop bit	There are three options: 1/1.5/2. Default setup is 1.
Parity	There are five options: none/odd/even/space/mark.

Parameter	Function
	Default setup is none.

5.8.5.5 PTZ

The PTZ interface is shown as in Figure 5-106.

Before setup, please check the following connections are right:

- PTZ and decoder connection is right. Decoder address setup is right.
- Decoder A (B) line connects with DVR A (B) line.

Click Save button after you complete setup, you can go back to the monitor interface to control speed dome.

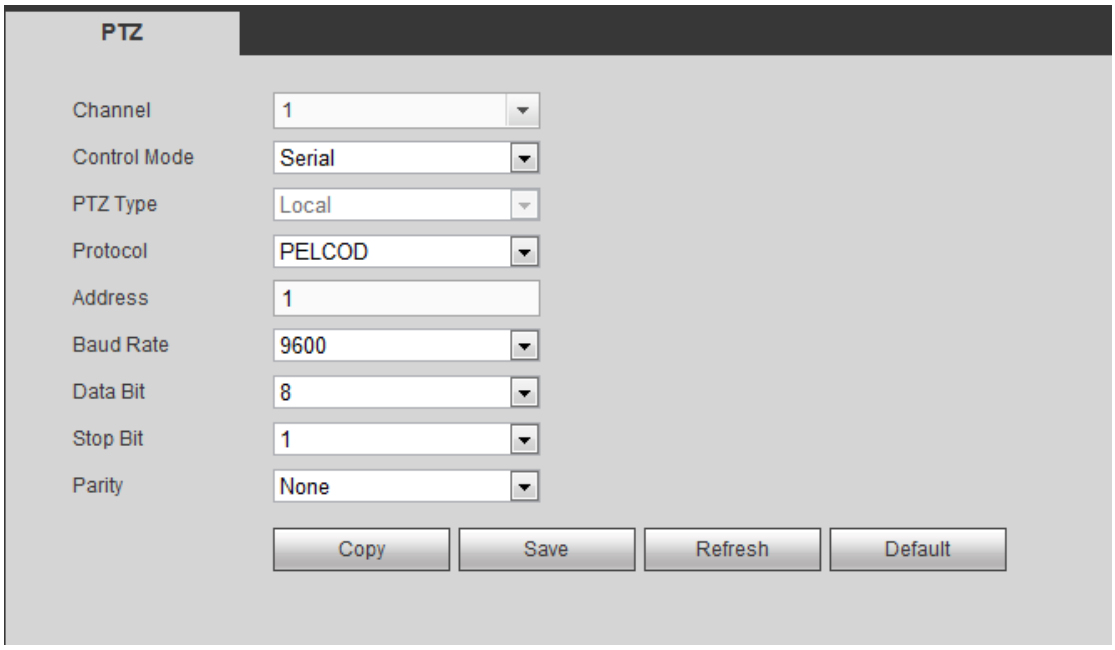


Figure 5-106

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Select speed dome connected channel.
Control mode	You can select control mode from the dropdown list. There are two options: Serial/HDCVI. For HDCVI series product, please select HDCVI. The control signal is sent to the PTZ via the coaxial cable. For the serial mode, the control signal is sent to the PTZ via the RS485 port.
PTZ type	There are two options: local/remote.
Protocol	Please select protocol as HD-CVI if you are using HDCVI mode.
Address	Set corresponding dome address. Default value is 1. **Please note your setup here shall comply with your dome address; otherwise you can not control the speed dome.**
Baud	Select the dome baud rate. Default setup is 9600.

Parameter	Function
Rate	
Data Bit	Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.

5.8.5.6 ATM/POS

The ATM/POS function is for financial areas. It includes Sniffer, information analysis and title overlay function. The Sniffer mode includes COM and network.

5.8.5.6.1 COM Type

The COM interface is shown as below. See Figure 5-107.

- Protocol: Please select from the dropdown list according to your actual situation.
- Overlay channel: Please select the channel you want to overlay the card number.
- Overlay mode: There are two options: preview and encode. Preview means overlay the card number in the local monitor video. Encode means overlay the card number in the record file.
- Overlay Position: Here you can select the proper overlay position from the dropdown list.

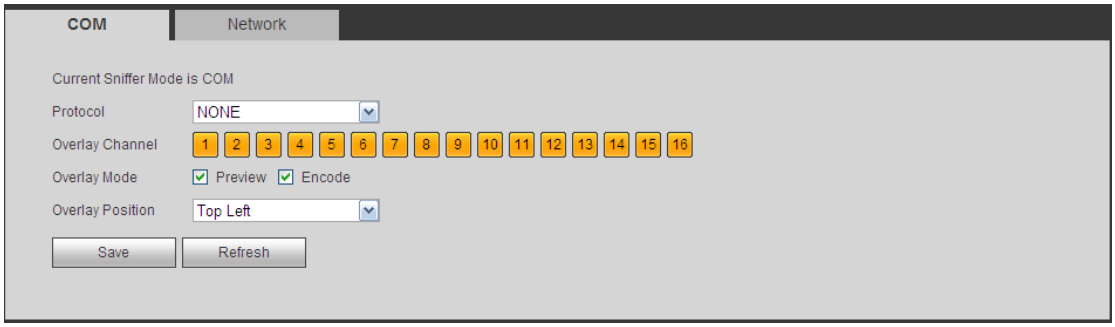


Figure 5-107

5.8.5.6.2 Network Type

The network type interface is shown as below. See Figure 5-108.

Here we take the ATM/POS protocol to continue.

There are two types: with or without the protocol according to client's requirements.

With the protocol

For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).

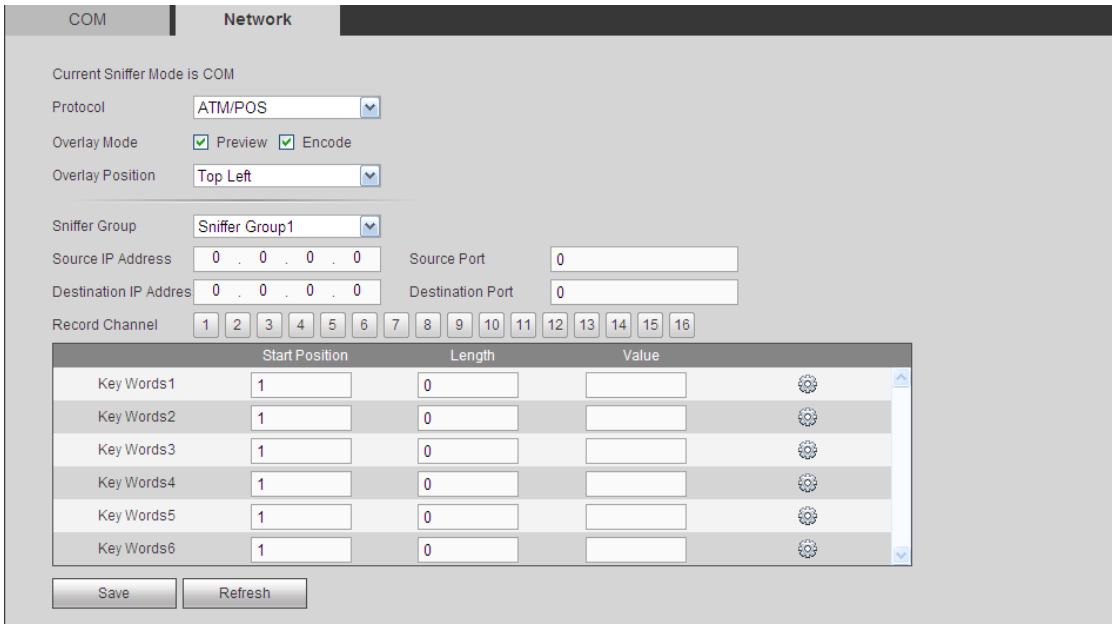


Figure 5-108

Without the protocol

For the ATM/POS without the protocol, the interface is shown as in Figure 5-109.

Source IP refers to host IP address that sends out information (usually it is the device host.)

Destination IP refers to other systems that receive information.

Usually you do not need to set source port and target port.

There are total four groups IP. The record channel applies to one group (optional) only.

Six frame ID groups verification can guarantee information validity and legal.

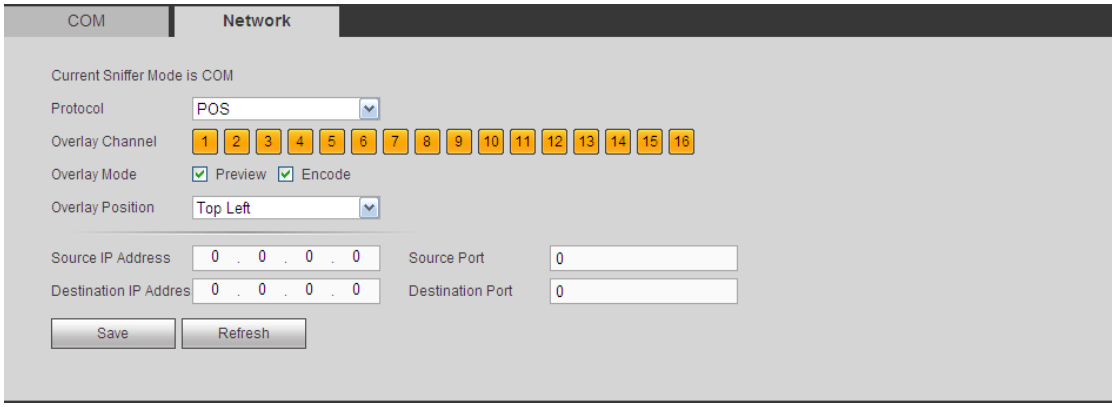


Figure 5-109

5.8.5.7 Voice

The audio function is to manage audio files and set schedule play function. It is to realize audio broadcast activation function.

5.8.5.7.1File List

Here you can add audio file, or delete audio file. See Figure 5-110.

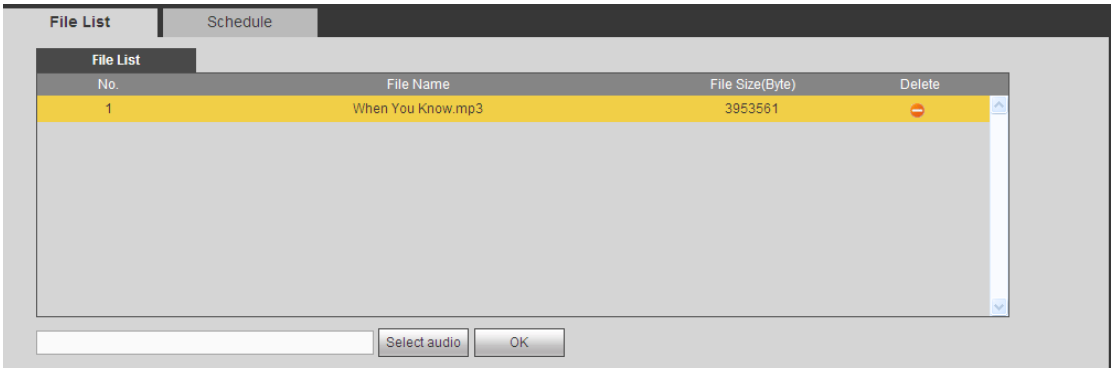


Figure 5-110

Click Add button, you can add audio file and import the audio file via the local computer. See Figure 5-111.

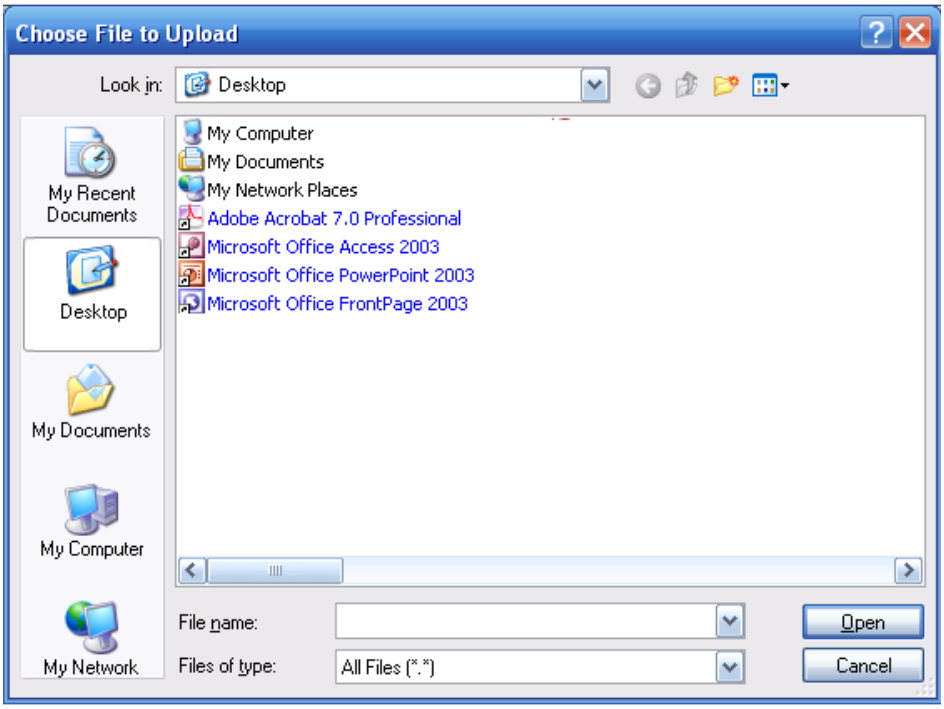


Figure 5-111

5.8.5.7.2 Schedule

It is to set schedule broadcast function. You can play the different audio files in the specified periods.

From main menu->Setup->System->Voice->.Schedule, you can see the following interface. See Figure 5-112.

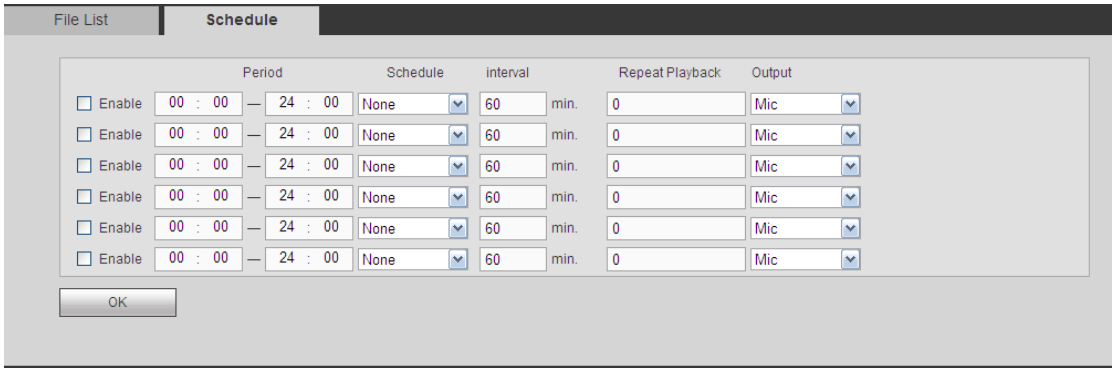


Figure 5-112

Please refer to the following sheet for detailed information.

Parameter	Function
Period	There are six periods. Check the box to enable current setup.
Repeat	It is to set audio file repeat times in the specified period.
Interval	It is the audio file repeated interval in the specified period.
Output port	There are two options: MIC (default)/audio. When reuse the MIC port and bidirectional talk port, the bidirectional port has the higher priority. Please note some series product does not support audio function.

Note

- The audio file end time depends on the audio file size and the interval setup.
- Priority: Bidirectional talk>Event trigger alarm>Trial listening>Audio schedule broadcast.

5.8.5.8 Account

Note:

- For the character in the following user name or the user group name, system max supports 6-digits. The space in the front or at the end of the string is null. The valid string includes: character, number, and underline.
- The user amount default setup is 64 and the group amount default setup is 20. The factory default setup includes two levels: user and admin. You can set the corresponding group and then set the rights for the respective user in the specified groups.
- User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.

5.8.5.8.1 User name

In this interface you can add/remove user and modify user name. See Figure 5-113.

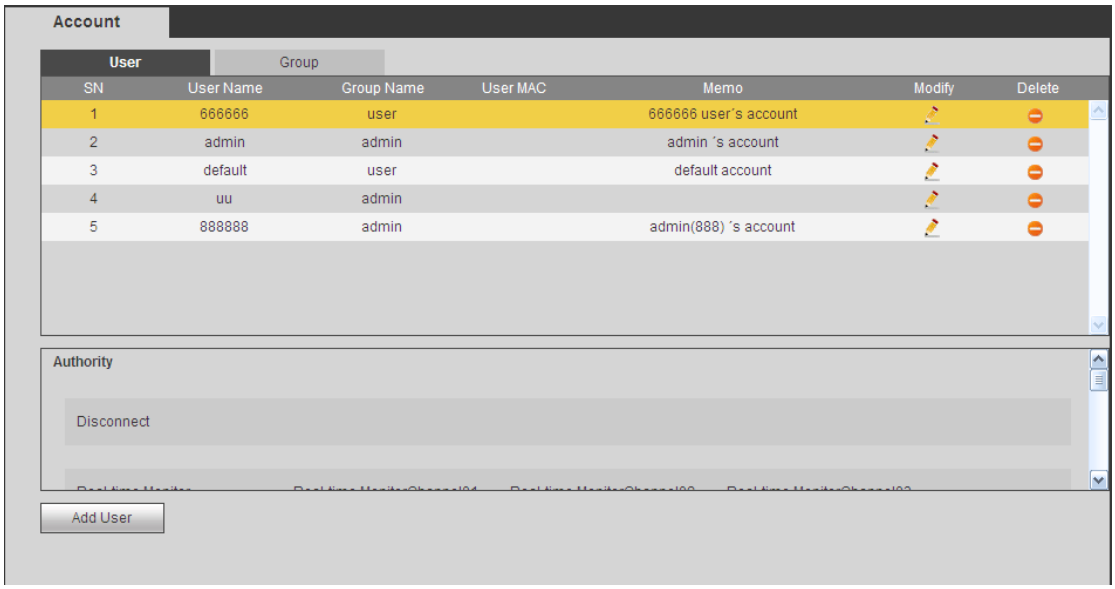


Figure 5-113

Add user: It is to add a name to group and set the user rights. See Figure 5-114.

There are four default users: admin/888888/666666 and hidden user "default". Except user 6666, other users have administrator right. The user 666666 can only have the monitor rights,.

Hidden user "default" is for system interior use only and can not be deleted. When there is no login user, hidden user "default" automatically login. You can set some rights such as monitor for this user so that you can view some channels without login.

Here you can input the user name and password and then select one group for current user.

Please note the user rights shall not exceed the group right setup.

For convenient setup, please make sure the general user has the lower rights setup than the admin.

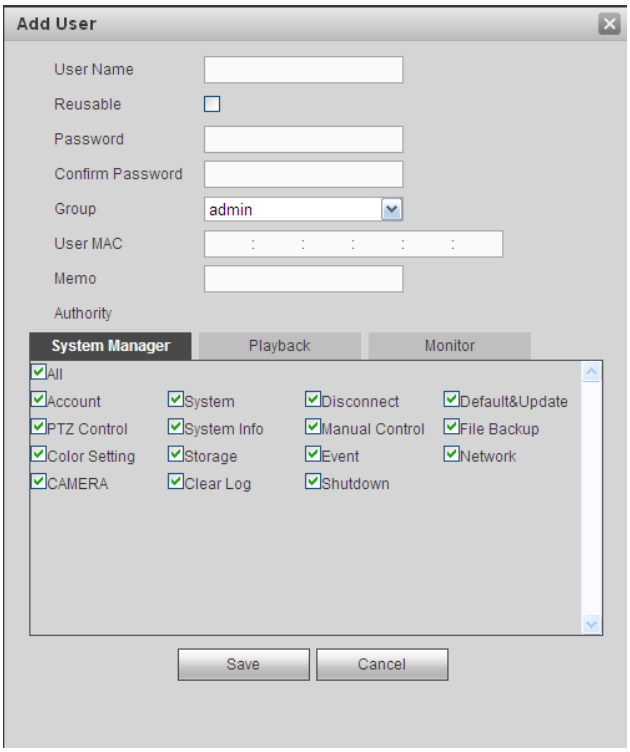


Figure 5-114

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 5-115.

Modify password

It is to modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the OK button to save.

Please note, the password ranges from 1-digit to 6-digit. It shall include the number only. For the user of the account rights, he can modify the password of other users.

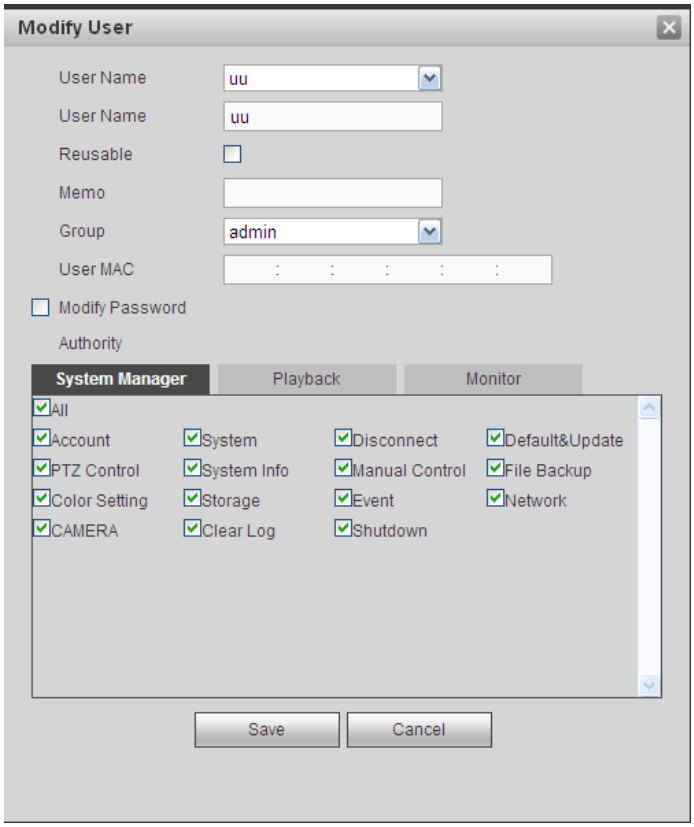


Figure 5-115

5.8.5.8.2Group

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 5-116.

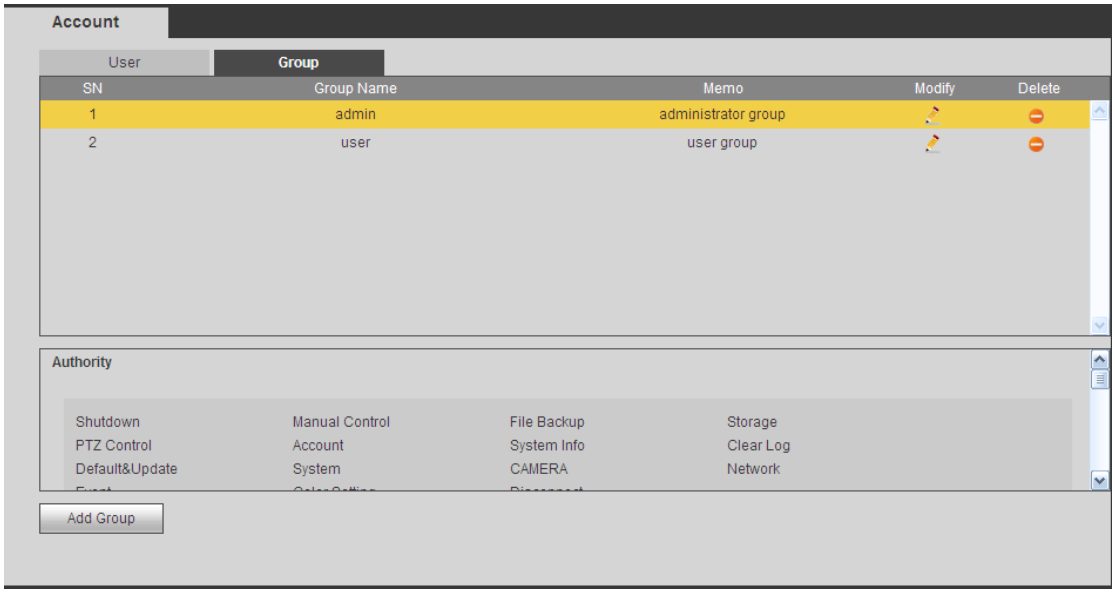


Figure 5-116

Add group: It is to add group and set its corresponding rights. See Figure 5-117.

Please input the group name and then check the box to select the corresponding rights. It

includes: shutdown/reboot device, live view, record control, PTZ control and etc.

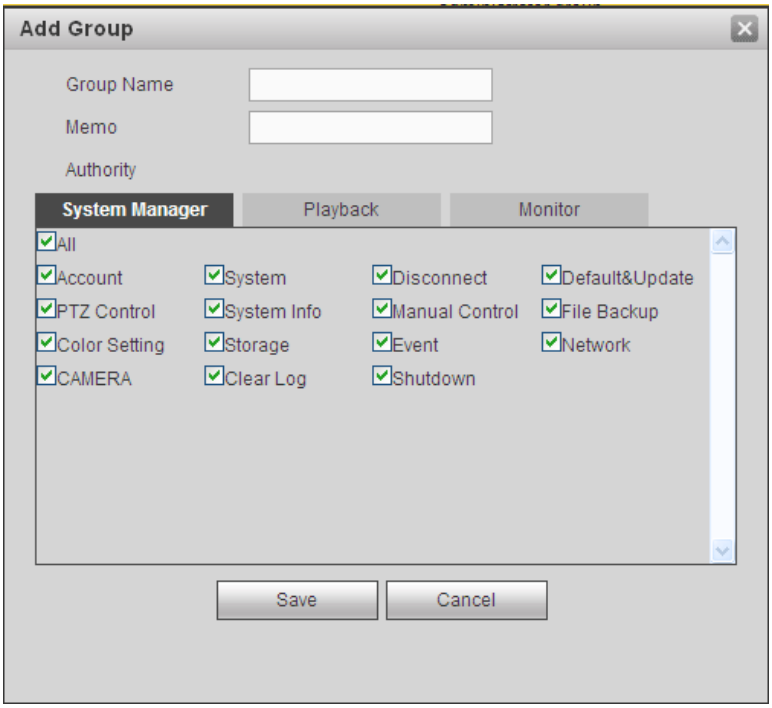


Figure 5-117

Modify group

Click the modify group button, you can see an interface is shown as in Figure 5-118. Here you can modify group information such as remarks and rights.

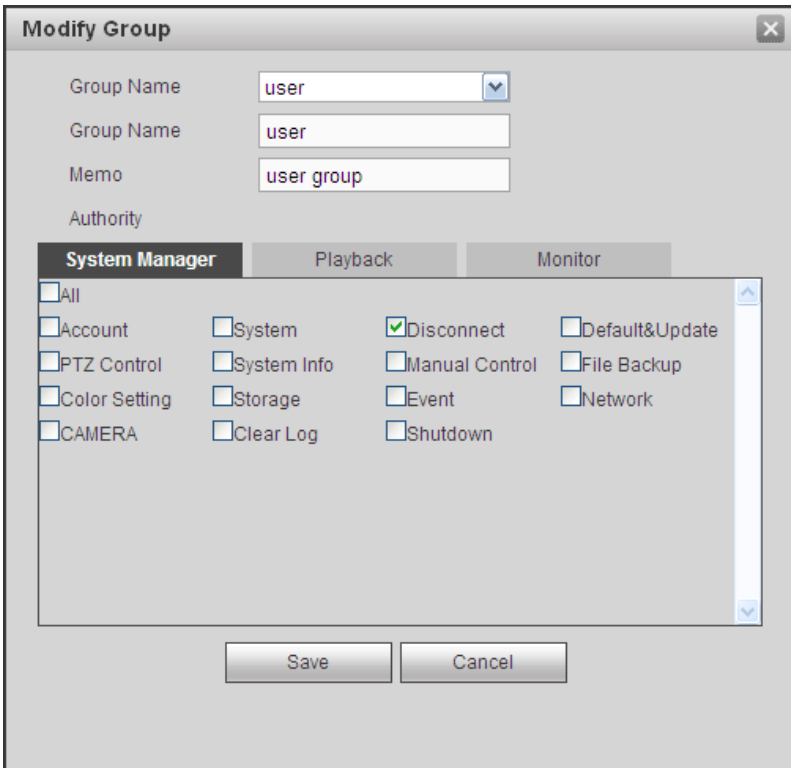


Figure 5-118

5.8.5.9 Auto maintain

The auto maintain interface is shown as in Figure 5-119.

Here you can select auto reboot and auto delete old files interval from the dropdown list.

If you want to use the auto delete old files function, you need to set the file period.

Click Manual reboot button, you can restart device manually.

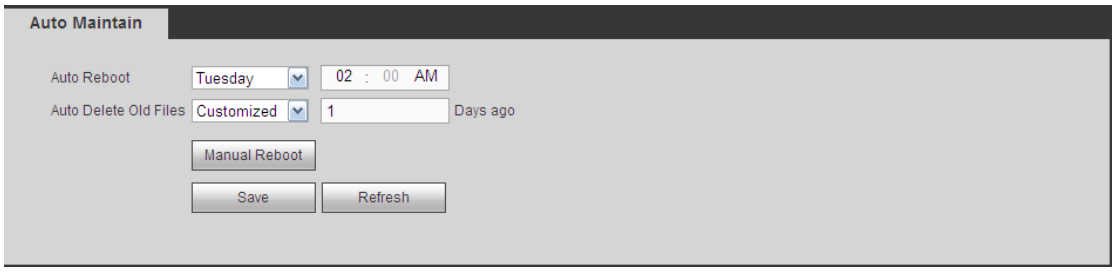


Figure 5-119

5.8.5.10 Import/Export

The interface is shown as in Figure 5-120.

Figure 5-120

Please refer to the following sheet for detailed information.

Parameter	Function
Import	It is to import the local setup files to the system.
Export	It is to export the corresponding WEB setup to your local PC.

5.8.5.11 Default

The default setup interface is shown as in Figure 5-121.

Here you can select Channel/Network/Event/Storage/System. Or you can check the All box to select all items.

Figure 5-121

5.8.5.12 Upgrade

The upgrade interface is shown as in Figure 5-122.

Please select the upgrade file and then click the update button to begin update. Please note the file name shall be as *.bin. During the upgrade process, do not unplug the power cable, network cable, or shutdown the device.

Important

Improper upgrade program may result in device malfunction!

Figure 5-122

.

5.9 Information

5.9.1 Version

The version interface is shown as in Figure 5-123.

Here you can view record channel, alarm input/output information, software version, release date and etc. Please note the following information is for reference only.

Figure 5-123

5.9.2 Log

Here you can view system log. See Figure 5-124.

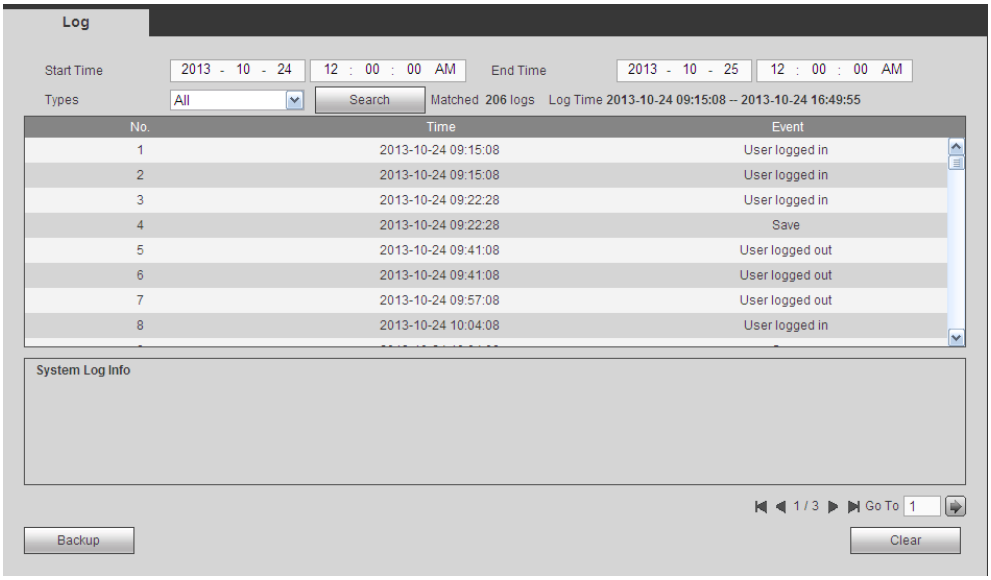


Figure 5-124

Please refer to the following sheet for log parameter information.

Parameter	Function
Type	Log types include: system operation, configuration operation, data operation, event operation, record operation, user management, log clear.
Start time	Set the start time of the requested log.
End time	Set the end time of the requested log.
Search	You can select log type from the drop down list and then click search button to view the list. You can click the stop button to terminate current search operation.
Detailed information	You can select one item to view the detailed information.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

Note

- If there is no HDD, system max supports 1024 logs.
- If you have connected to the unformatted HDD, system max supports 5000 logs.
- If you have connected to the formatted HDD, system max supports 500,000 logs.
- System operation logs are saved in system memory. Other types of logs are saved in the HDD. If there is no HDD, other types of logs are saved in the system memory too.
- The logs are safe when you format the HDD. But the logs may become loss once you removed the HDD.

5.9.3 Connection Log

Please set start time, end time, channel number and then click Search button, you can

view the corresponding connection log of current channel. See Figure 5-125.

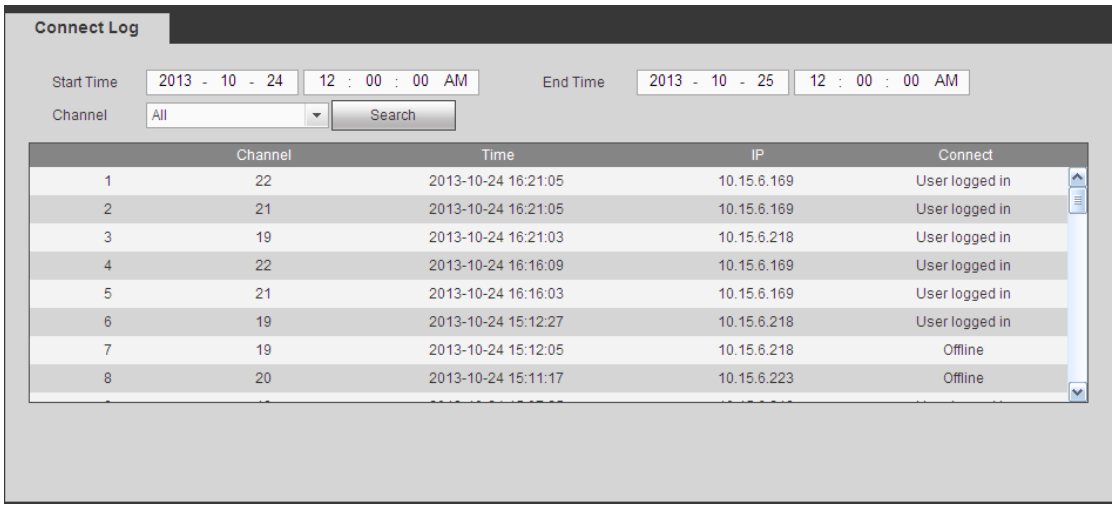


Figure 5-125

5.9.4 Online User

The online user interface is shown as in Figure 5-126.

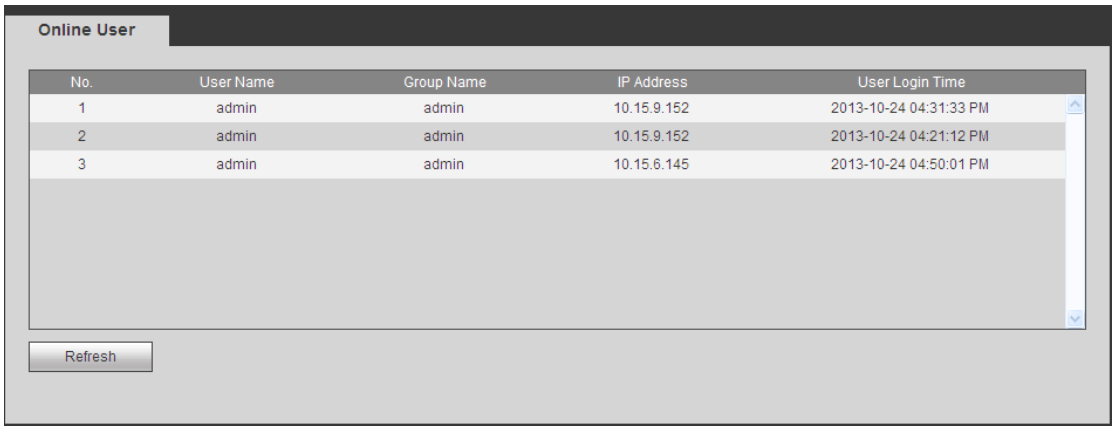


Figure 5-126

5.10 Playback

Click Playback button, you can see an interface is shown as in Figure 5-127.

Please set record type, record date, window display mode and channel name.

You can click the date on the right pane to select the date. The green highlighted date is system current date and the blue highlighted date means it has record files.

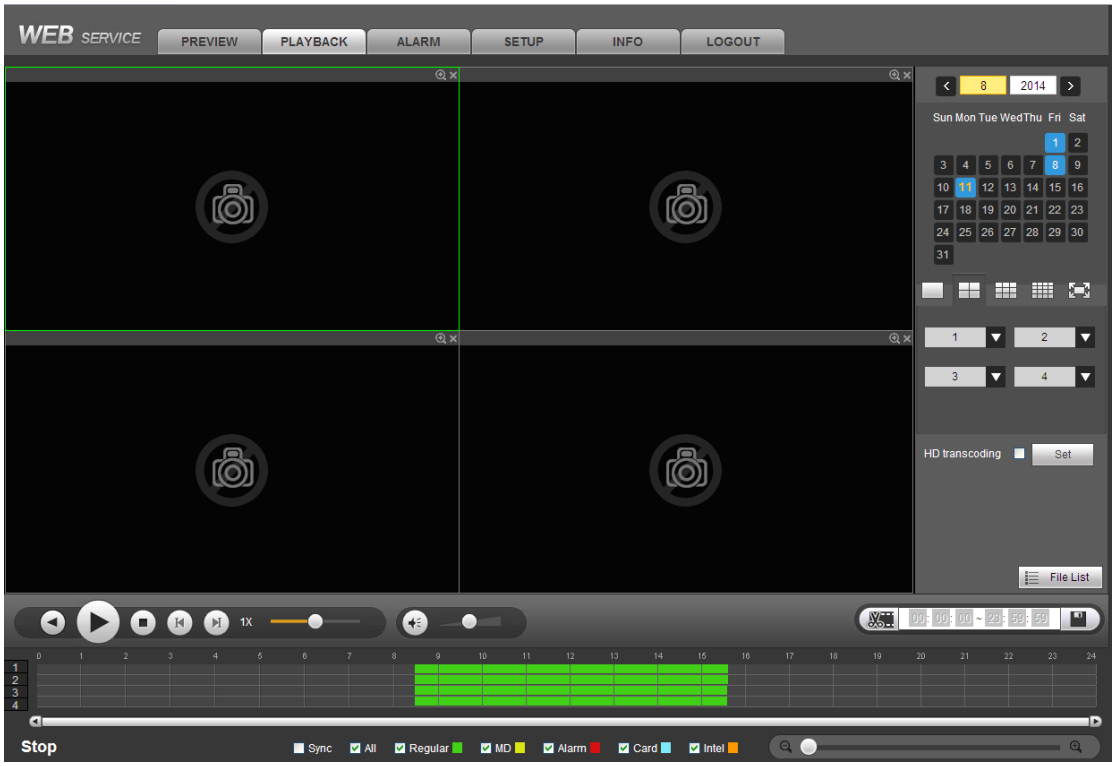


Figure 5-127

Then please click File list button, you can see the corresponding files in the list. See Figure 5-128.

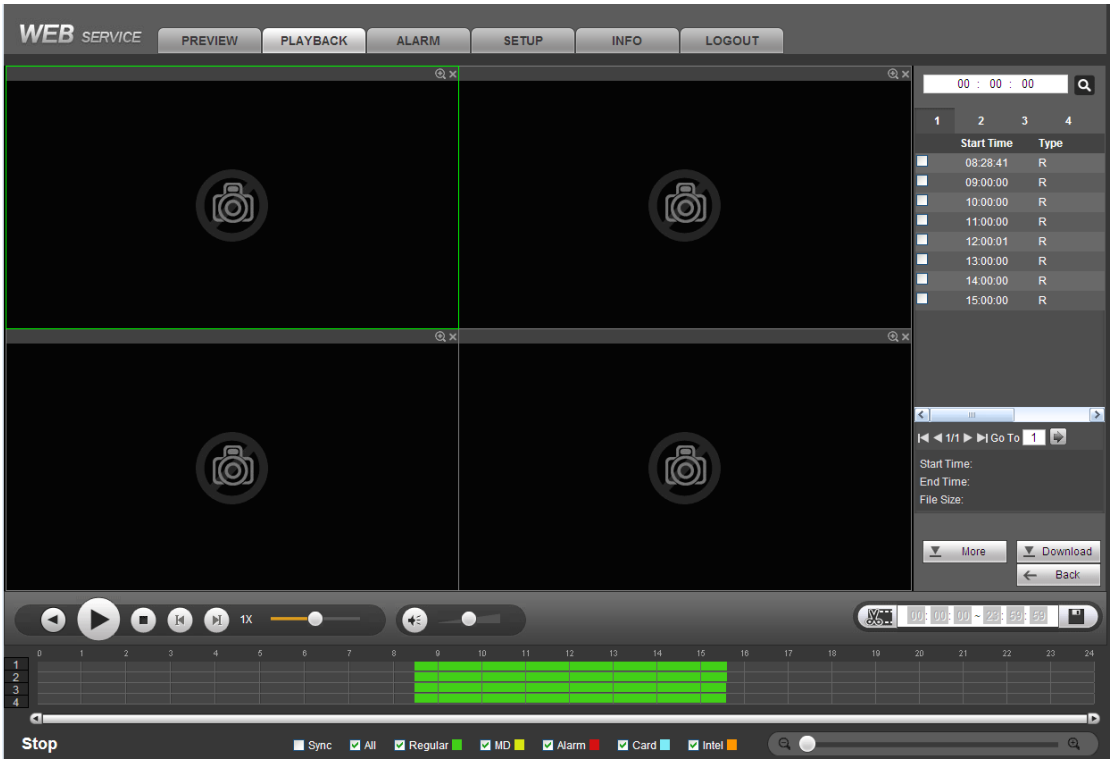


Figure 5-128

Select a file you want to play and then click Play button, system can begin playback. You can select to playback in full-screen. Please note for one channel, system can not playback and download at the same time. You can use the playback control bar to implement various operations such as play, pause, stop, slow play, fast play and etc. See Figure 5-129.

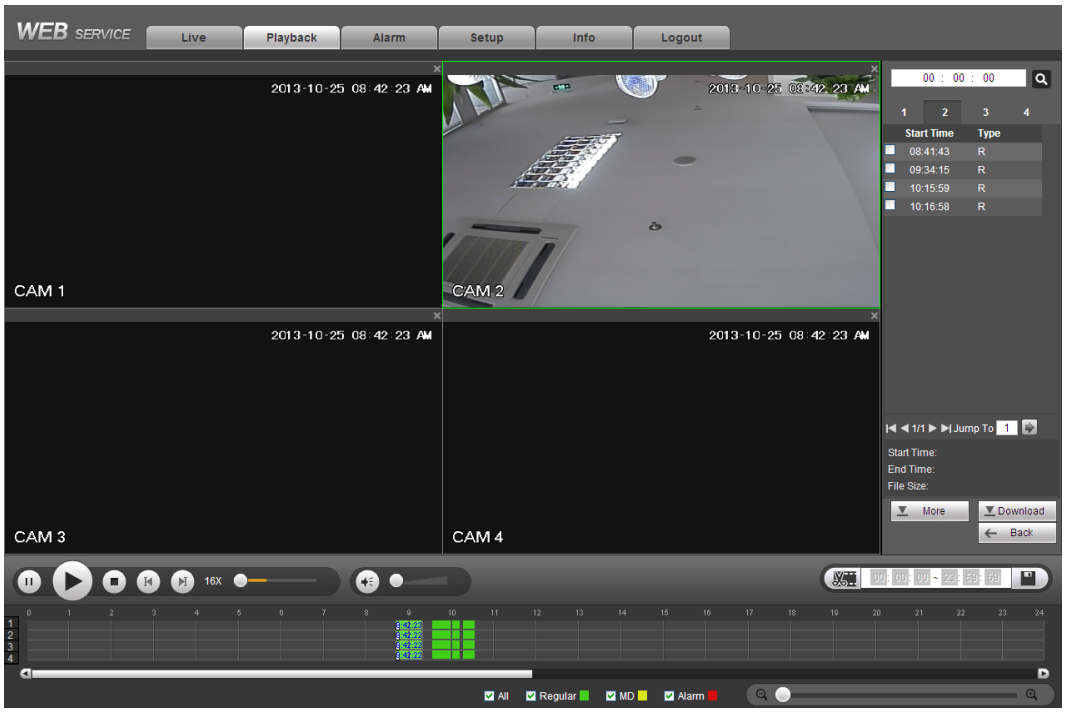


Figure 5-129

Select the file(s) you want to download and then click download button, you can see an interface shown as in Figure 5-130. The Download button becomes Stop button and there is a process bar for your reference. Please go to you default file saved path to view the files.

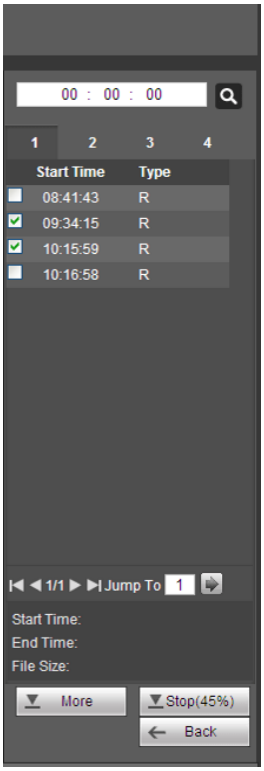


Figure 5-130

HD Transcoding

When the bandwidth is limited, you can use this function to transfer the HD bit stream to the specified lower resolution and then playback. It is to reduce network load.

In Figure 5-127, select the playback period and then select playback mode and channel(s). Check the box to enable HD transcoding function and then click the Set button; you can see the following interface. See Figure 5-131. Please select the resolution, frame rate, bit rate and then click the OK button.

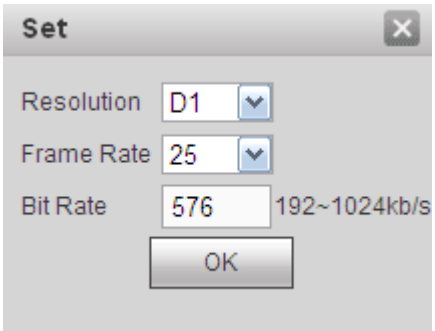


Figure 5-131

Load more

It is for you to search record or picture. You can select record channel, record type and record time to download. There are two download types. The download by file interface is shown as in Figure 5-132 and the download by time interface is shown as in Figure 5-133.

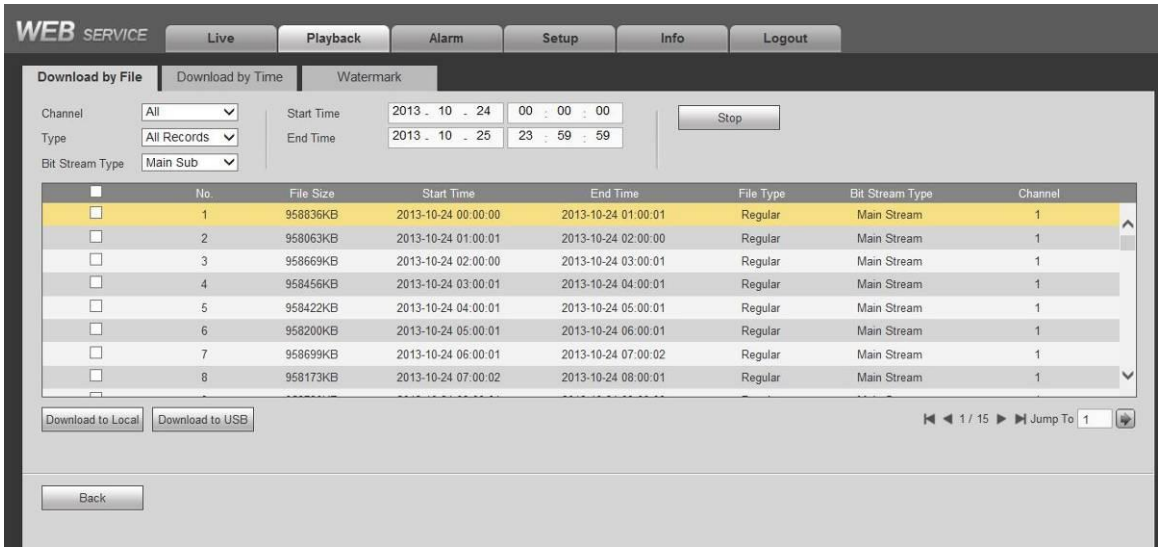


Figure 5-132

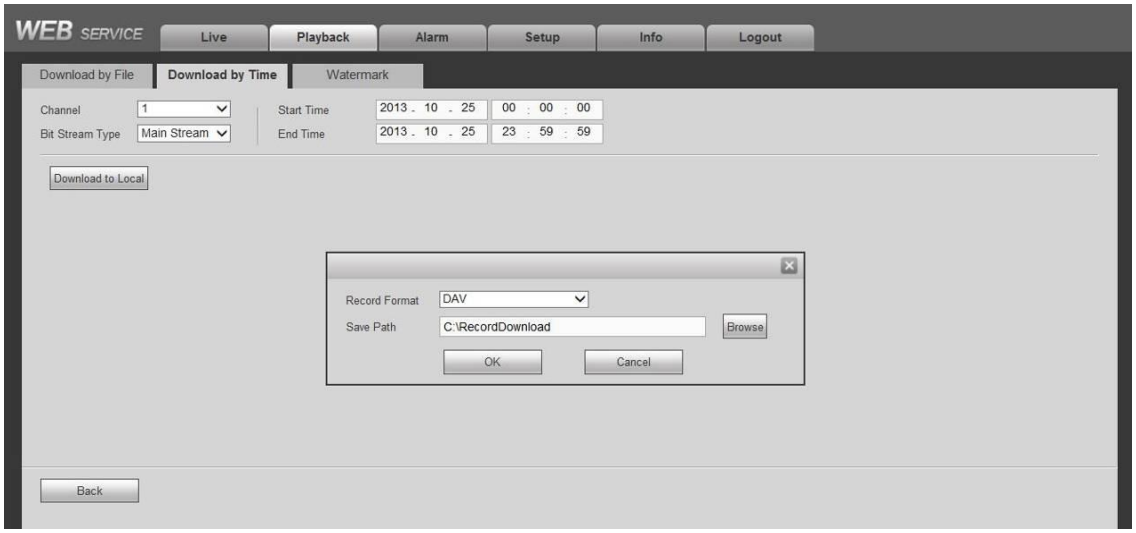


Figure 5-133

Watermark

Watermark interface is shown as In Figure 5-132. Please select a file and then click Verify button to see the file has been tampered with or not

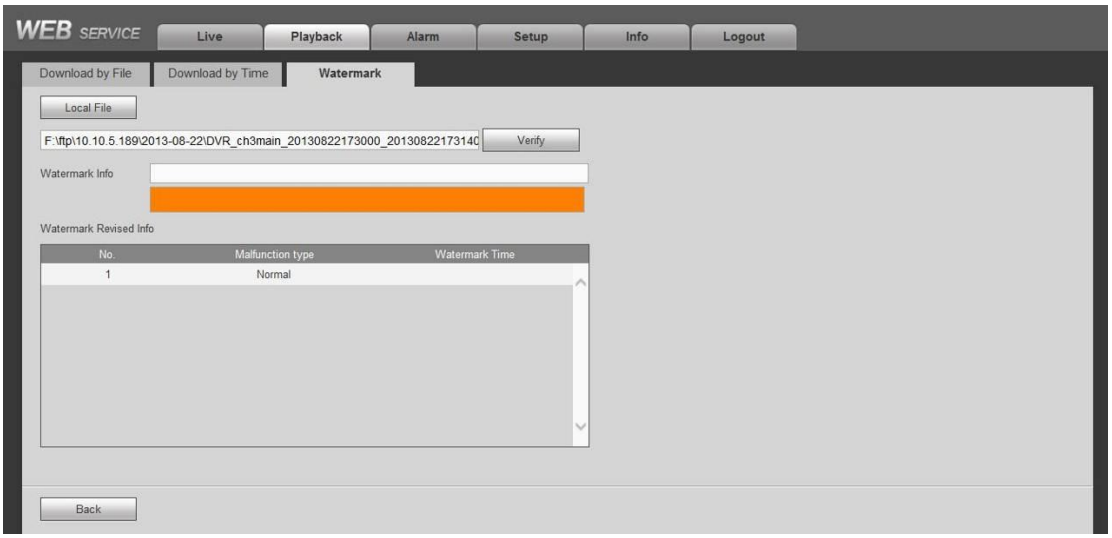


Figure 5-134

5.11 Alarm

Click alarm function, you can see an interface is shown as Figure 5-135.

Here you can set device alarm type and alarm sound setup (Please make sure you have enabled audio function of corresponding alarm events.).

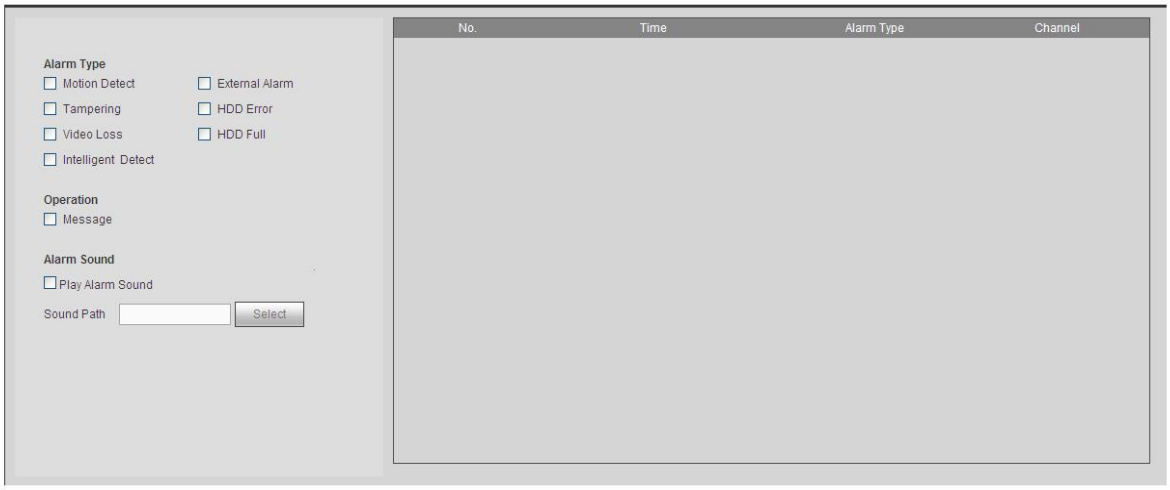


Figure 5-135

Please refer to the following sheet for detailed information.

Type	Parameter	Function
Alarm Type	Video loss	System alarms when video loss occurs.
	Motion detection	System alarms when motion detection alarm occurs.
	Tampering	System alarms when camera is viciously masking.
	Disk full	System alarms when disk is full.
	Disk error	System alarms when disk error occurs.

Type	Parameter	Function
	External alarm	Alarm input device sends out alarm.
	Intelligent alarm	System alarms when video diagnosis event occurs.
	Audio detect	System generates an alarm if the audio detect is abnormal.
Operation	Prompt	Check the box here, system can automatically pops up an alarm icon on the Alarm button in the main interface when there is an alarm.
Alarm Sound	Play alarm sound	System sends out alarm sound when an alarm occurs. You can specify as you wish.
	Sound path	Here you can specify alarm sound file.

5.12 Log out

Click log out button, system goes back to log in interface. See Figure 5-136.
You need to input user name and password to login again.

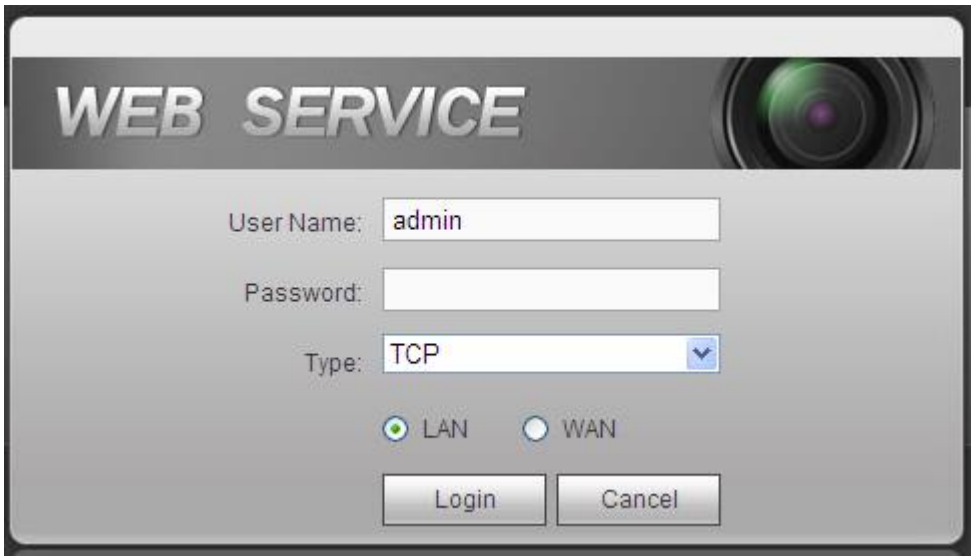


Figure 5-136

5.13 Un-install Web Control

You can use web un-install tool "uninstall web.bat" to un-install web control.

Please note, before you un-installation, please close all web pages, otherwise the un-installation might result in error.