Smart Professional Surveillance System User's Manual

Version 1.10.0

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Welcome

Thank you for using our Smart Professional Surveillance System (Smart PSS)!
This user's manual is designed to be a reference tool for operation of your system.
Here you can find detailed operation information about Smart PSS.

1 Overview and Environment

1.1 Overview

Smart PSS is an abbreviation for Smart Professional Surveillance System.

The software is to manage small quantity security surveillance devices. It releases with the device and does not support the products from other manufacturers. It has the following features:

- View real-time video of several camera channels.
- View the playback video files from various cameras.
- Support multiple scheduled arms to realize auto PC guard.
- Support e-map; you can clearly view and manage all device locations.
- TV wall plan setup and can output TV wall video at the same time.
- Support extension applications, can send out alarm information to external programs.

1.2 Performance

- System max supports 36-channel at CIF resolution.
- Each stream media server max receives 16-channel video and transfers 128-chanel video.
- Each storage server max supports to save 16-channel video (no bit stream limit).

1.3 Environments

Item	Requirements
OS	Windows XP/Windows 7/ Windows 8/Windows Mac (Smart PSS Mac version).
CPU	2.4GHz or higher.
Display card	Independent car and support directX 8.0c or higher.
Memory	1GB or higher.
Displayer Resolution	1024×768 or higher.

2 Installation and Upgrade

2.1 Installation

1) Double click “General_Smart-PSS_Eng_IS_VX.XX.X.exe” to begin installation. See Figure 2-1.

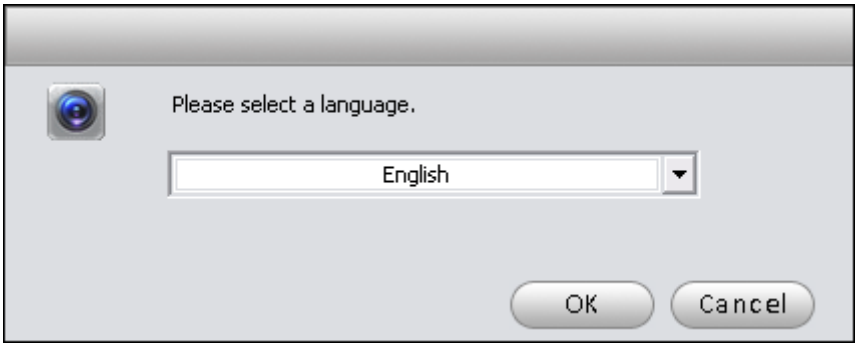


Figure 2-1

2) Select installation language from the dropdown list and then click OK button to go to Welcome interface. See Figure 2-2.

Figure 2-2

3) Click next button, you can see an interface is shown as in Figure 2-3. Here you can view End User License Agreement.

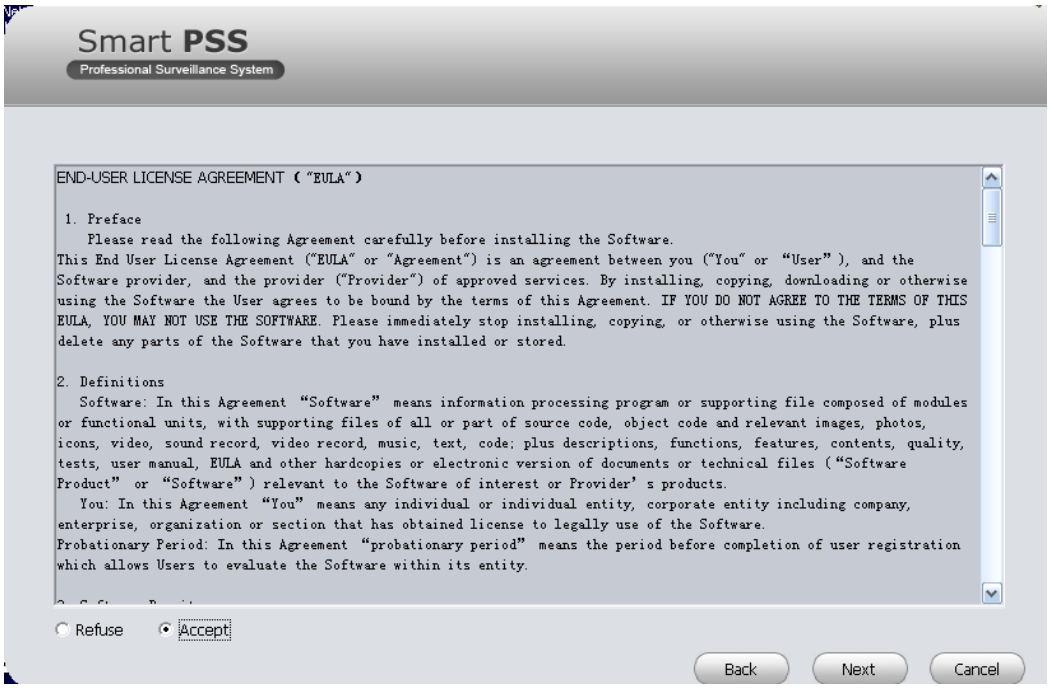


Figure 2-3

4) Please check the Accept item and then click Next button to continue. System pops up module installation dialogue box. See Figure 2-4.

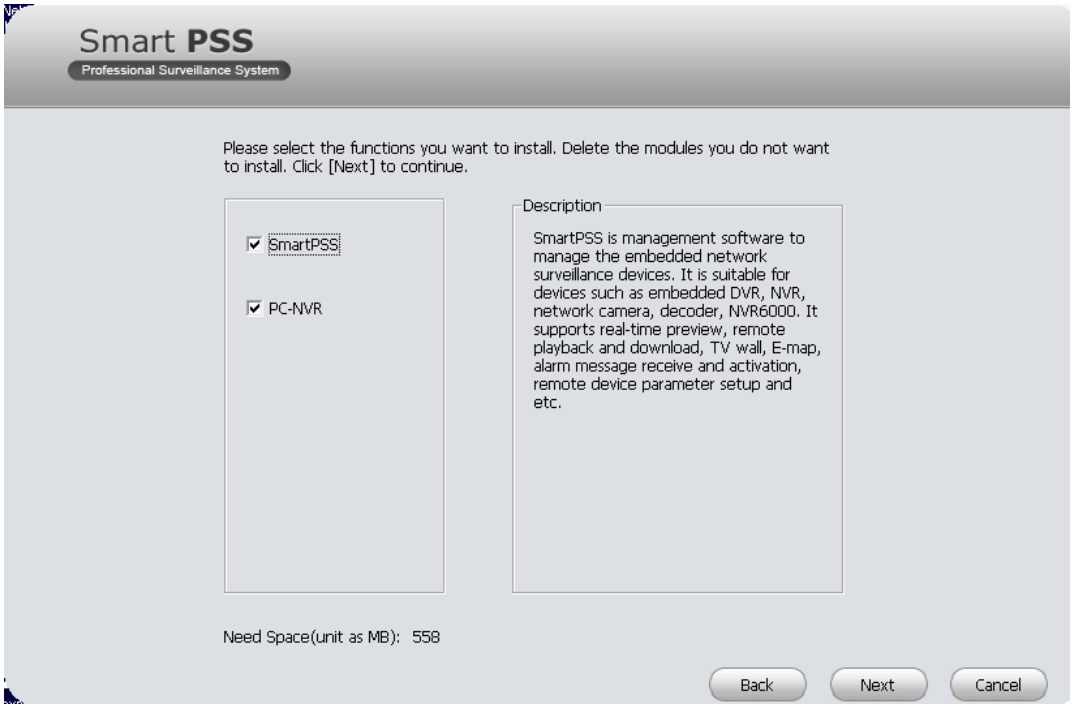


Figure 2-4

5) Check Smart PSS item and then click Next button, you can see there is an interface asking you to specify installation path. See Figure 2-5.

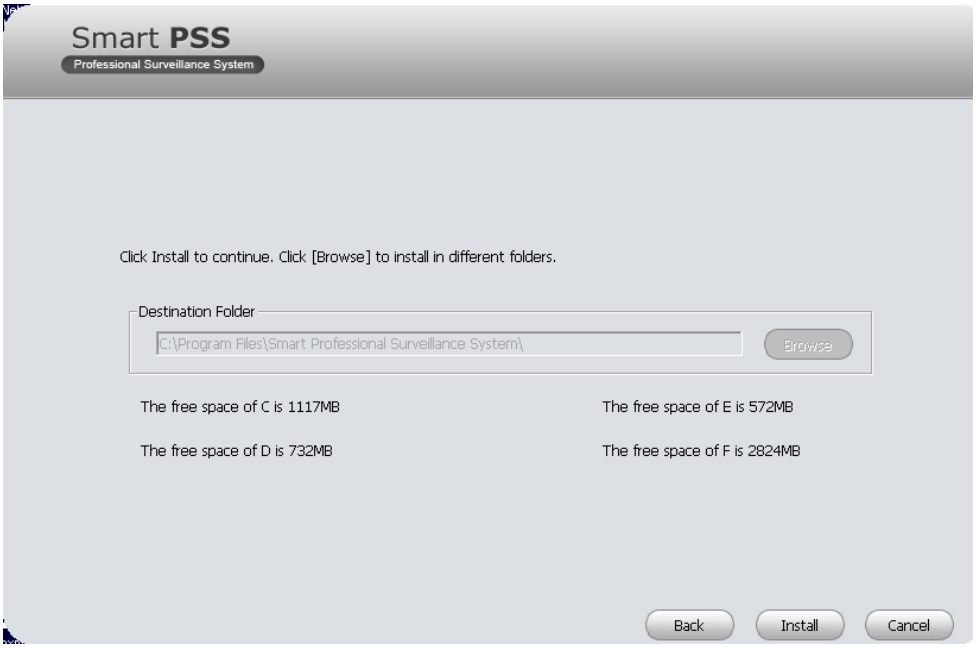


Figure 2-5

6) After you select installation path click Next button, system begins installation. The interface is shown as in Figure 2-6.

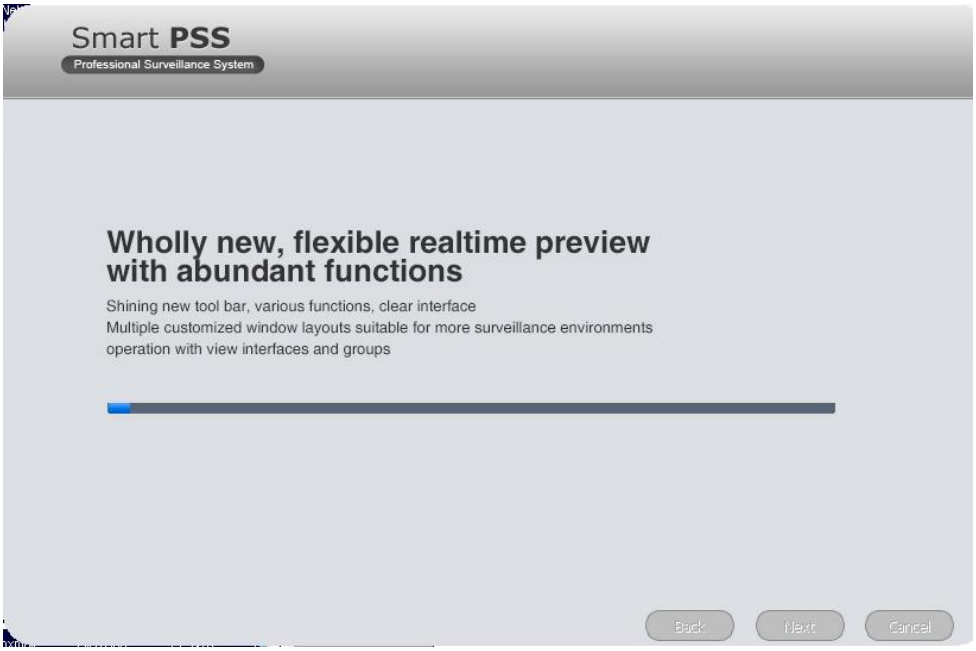


Figure 2-6

7) During the installation process, you can click Cancel button to exit. After installation, you can see an interface is shown as below. See Figure 2-7.

Figure 2-7

8) Click Finish button, you can complete the installation.

2.2 Un-installation

1) From Start -> All programs->Smart PSS, select Uninstall Smart PSS item. System pops up the following dialogue box. See Figure 2-8.

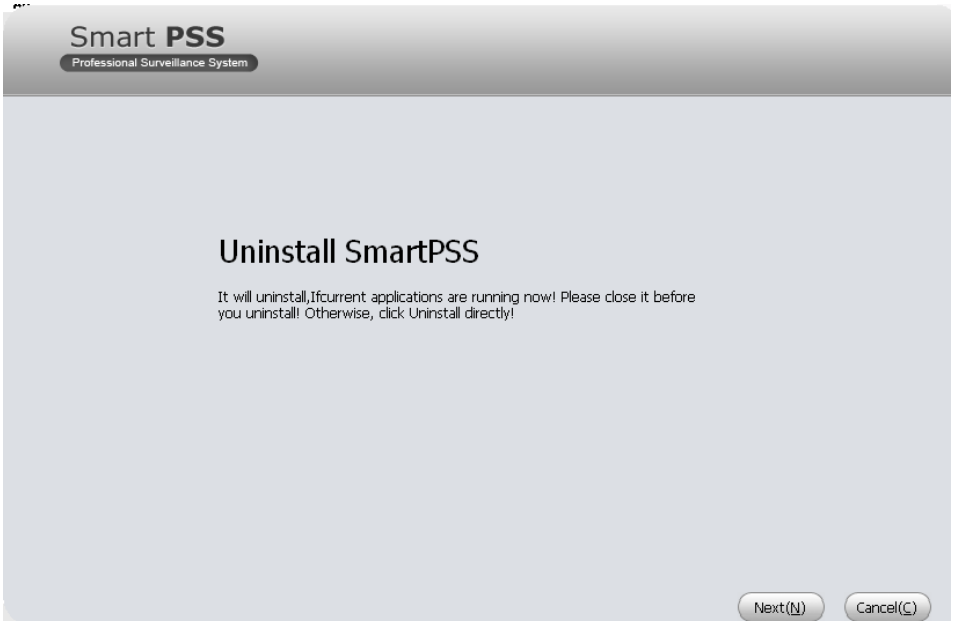


Figure 2-8

2) Click Next button, you can see an interface shown as in Figure 2-9.
3) Check the box here to remove Smart PSS. You can check the box to remove PC-NVR too. Click Uninstall button to remove.

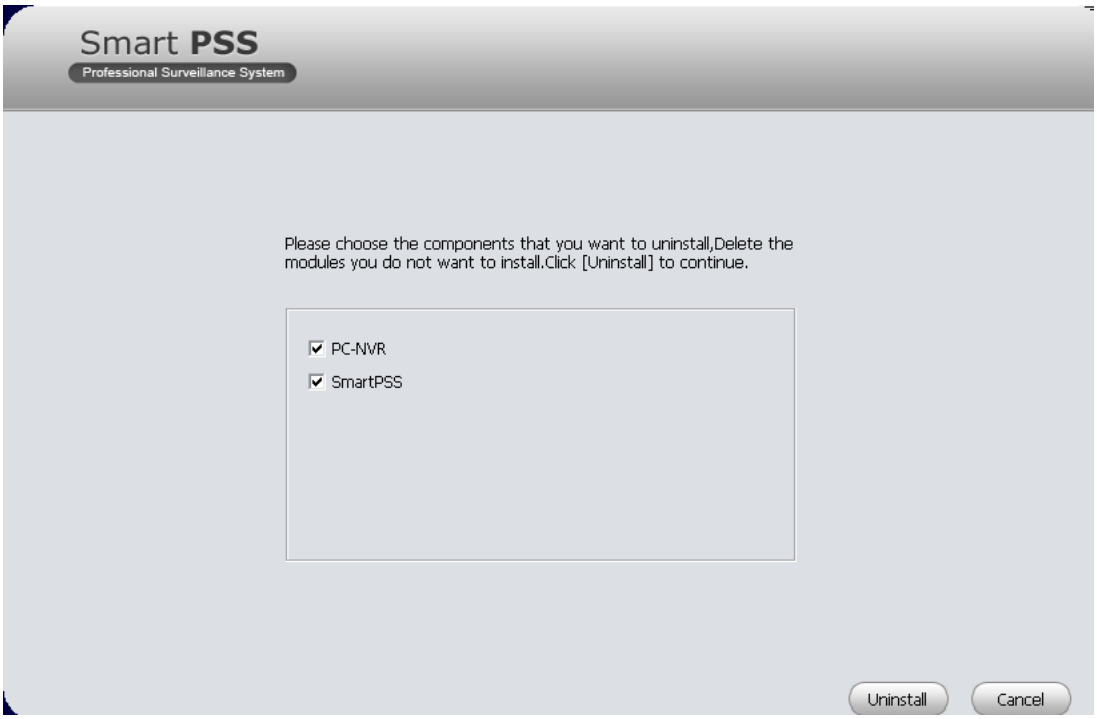

Smart PSS
Professional Surveillance System
Please choose the components that you want to uninstall,Delete the modules you do not want to install.Click [Uninstall] to continue.
PC-NVR
SmartPSS
Uninstall
Cancel

Figure 2-9

3 Setting

Double click Smart PSS icon

, you can go to the login interface.

3.1 Login Interface

Login interface is shown as in Figure 3-1.

- User name: Input the user account
- Password: Please input corresponding password to log in.
- OK: Click this button, system can verify the account and then enter the software main interface.
- Cancel: Click this button to exit login interface.

Note:

- If it is your first time to run the Smart PSS program, default user name is **admin** and its password is **admin** too. Admin is a super administrator and can not be removed. It can add, modify or delete other user.
- For security reason, please modify your password after first log in.
- You can memory your password, so that when you can log in the next time, you do not need to input user name and password. Please note this function is for your convenient only. **Do not** enable this function in public PC.

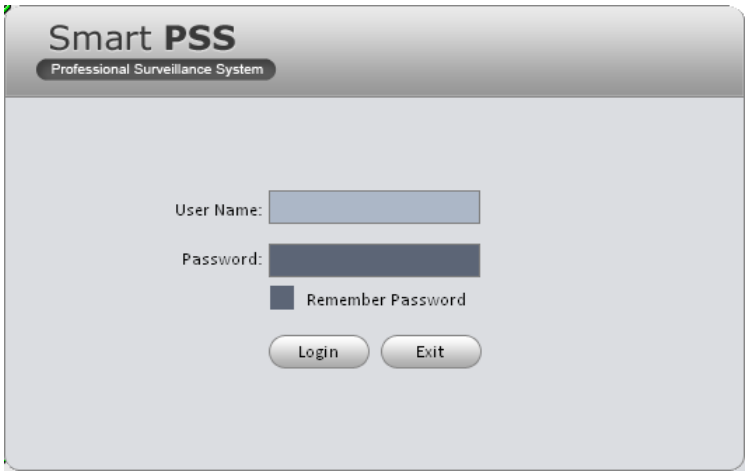


Figure 3-1

3.2 Main Interface

Click Login button, system begins verifying user name and password and then go to the main interface. See Figure 3-2.

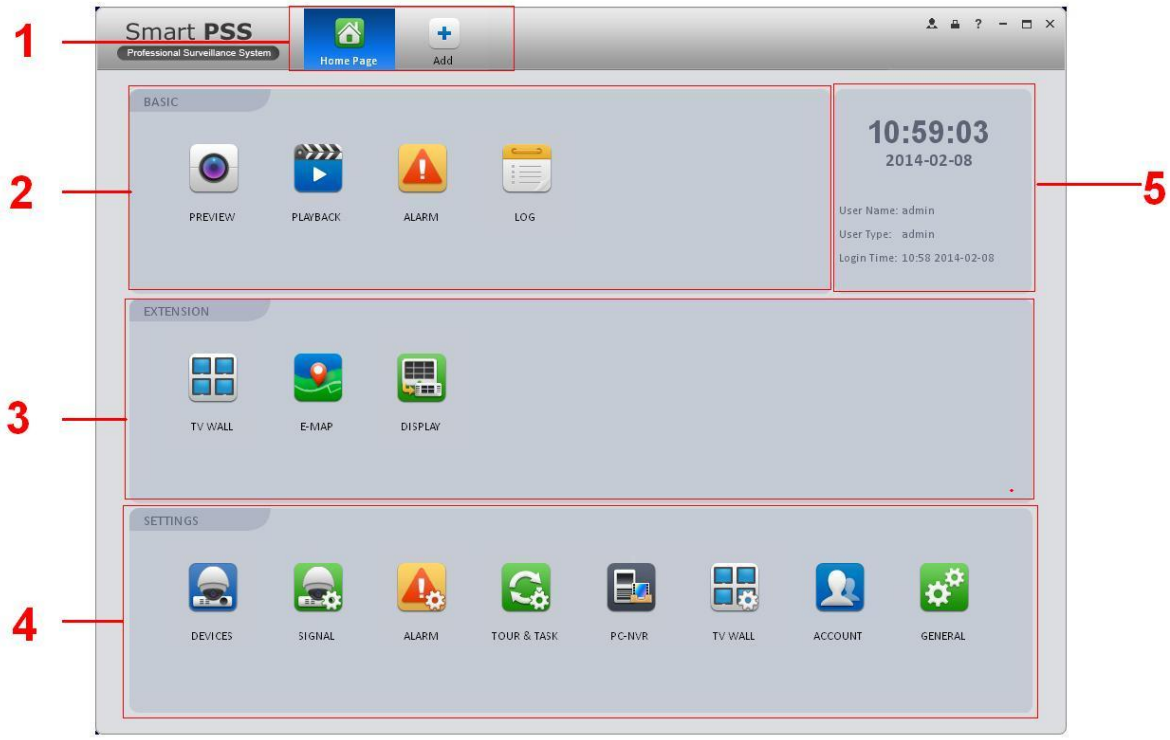


Figure 3-2

Please refer to the following sheet for detailed information.

SN	Parameter	Function
1	Menu	Here you can view main page icons and current open function icon. Click add button to add a function icon on the top pane.
2	Basic	It includes preview, playback, alarm manager, and log.
3	Extension	It includes TV wall, e-map, and display.
4	Settings	It includes devices manager, signals manager, alarm setup, tour and task, PC-NVR, TV wall management, account, general setup and etc.
5	Smart PSS basic information	It is to display current time, user information, login time.

3.3 General

If it is your first time to login the Smart PSS, you need to set system parameter. It includes network performance, log save time, login Smart PSS or not, picture and record saved path. Please follow the steps listed below.

Click the button; you can go to the general interface. See Figure 3-3.

3.3.1 Basic

It is to set capability, language, time and etc.

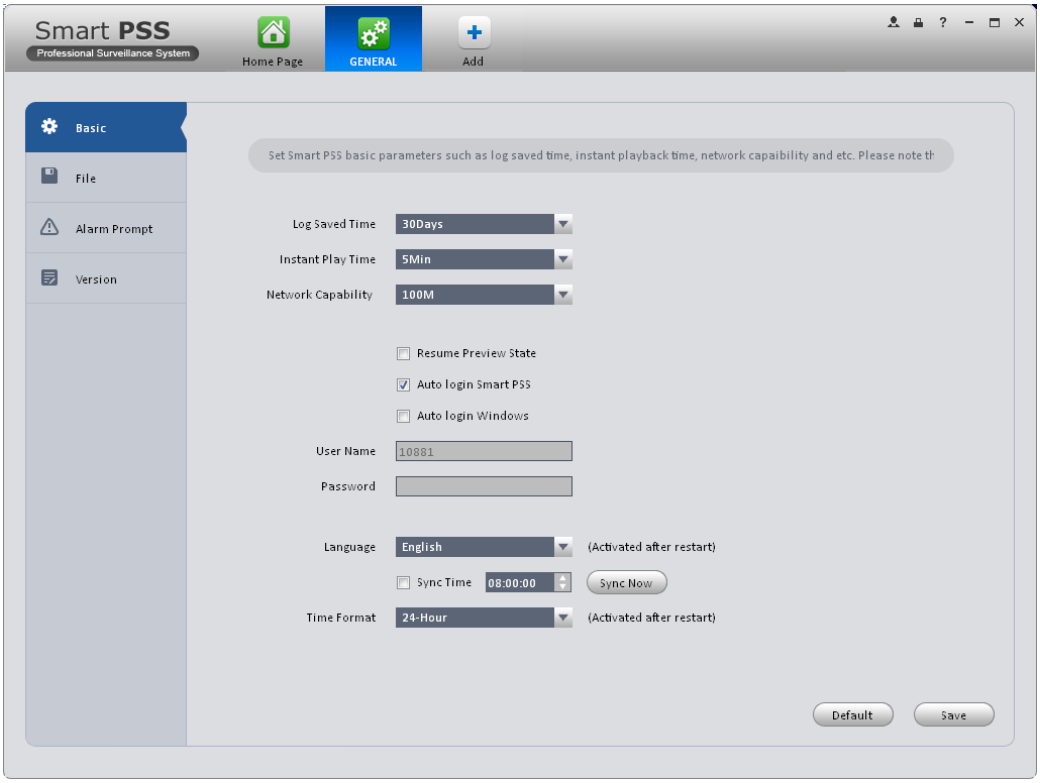


Figure 3-3

Please refer to the following sheet for detailed information.

Item	Function
Log Saved Time	Here you can set log save time. System automatically overwrites old files once it reaches the period you set here.
Instant Play Time	It is to set instant playback time.
Network capability	It is for you to set network function. It includes: “Low”, “10M”,’100M’,”1000M”.
Resume Previous State	System restores previous preview status after it restarts.
Auto Login Smart PSS	Check the box here, you can login SmartPSS directly without inputting user name and password.
Auto Login Windows	Check the box here and then input user name and password, you can go to the Windows OS after the computer restarts.
Language	Software language.
Sync time	Check the box here to enable time synchronization function and then input synchronization time. Smart PSS can auto synchronize time with the PC at the time you specified. Click Sync now button to begin synchronization now.
Time format	System time format. It includes 12H/24H.

3.3.2 File Path

File configuration interface is shown as below. See Figure 3-4.

Here you can set snapshot picture and record file default save path.

Configuration file path: It is to import or export configuration file. If you change path to D disk, you can export current software user information to D disk. If current software has installed at the D disk, you can import user information to current software.

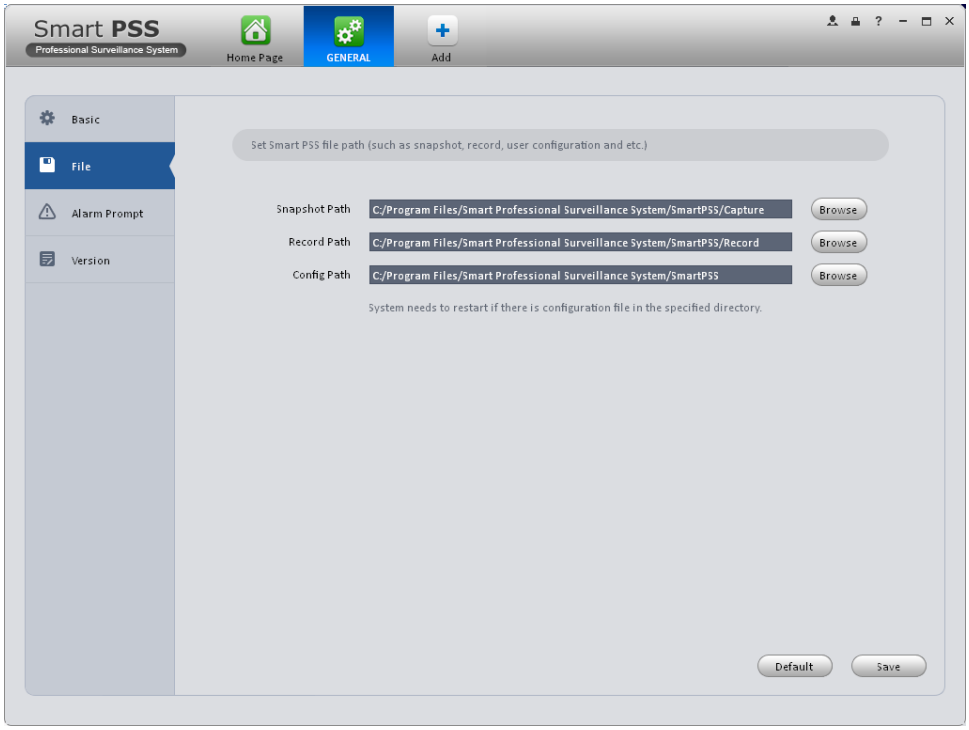


Figure 3-4

3.3.3 Alarm Prompt

It is to set alarm prompt audio. The interface is shown as below. See Figure 3-5.

Please select corresponding prompt audio for the specified alarm type.

Check the box at the bottom of the interface to enable e-map function. The e-map can flash when the corresponding alarm occurs.

Figure 3-5

Tips

You can click Default button to restore factory default setup.

3.3.4 Version

Click the version button; you can go to the following interface. See Figure 3-6.

Here you can view software version information.

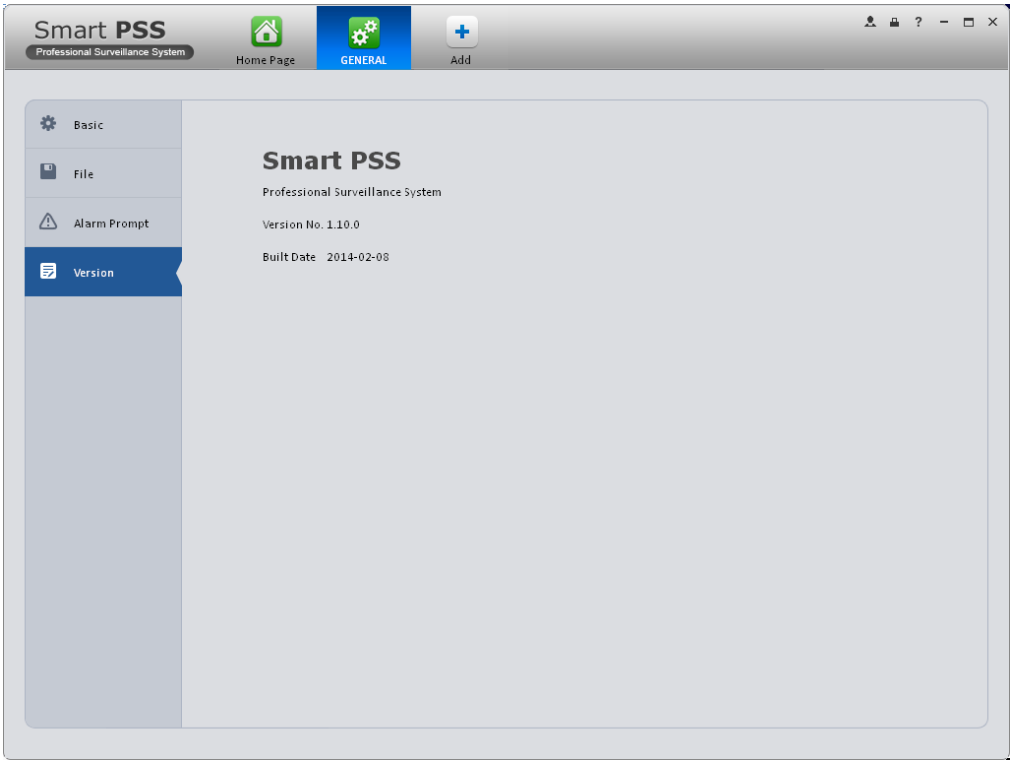


Figure 3-6

3.4 Account

Here you can add, modify or delete a user.

3.4.1 Add role

1) Click in the Settings pane, and then click role button, you can go to the following interface. See Figure 3-7.

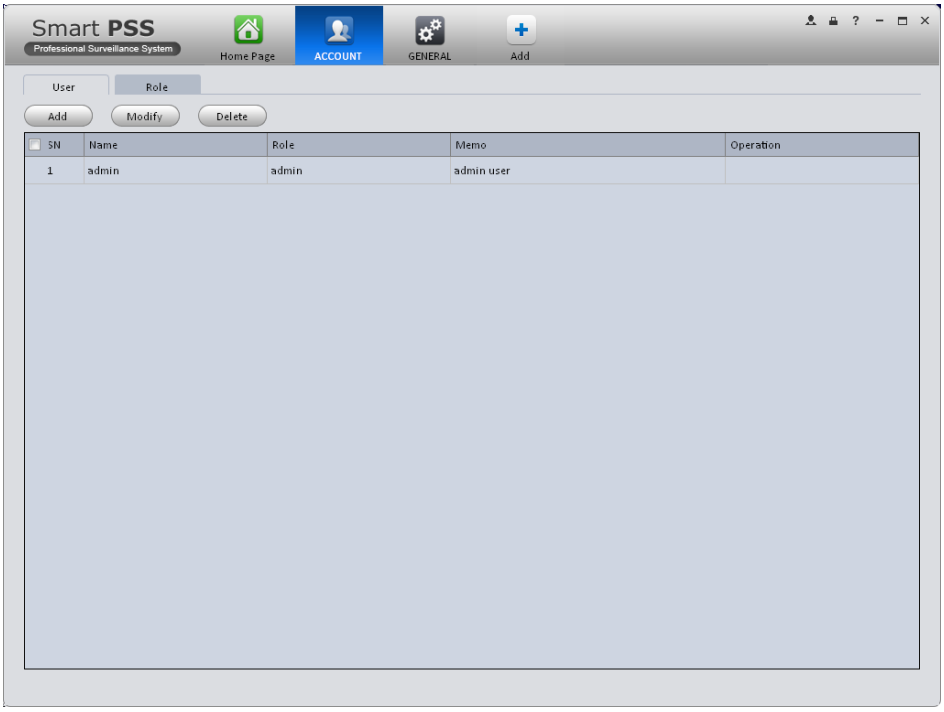


Figure 3-7

2) Click Add button, the interface is shown as in Figure 3-8.

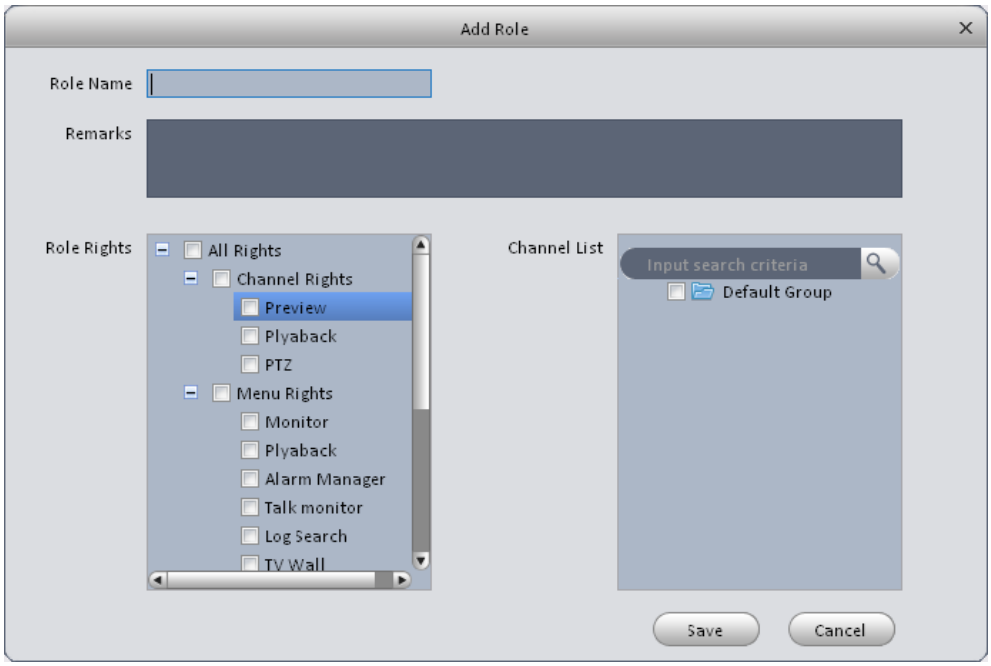


Figure 3-8

3) Please input a role name and check the corresponding role rights. You can input some reference information if necessary.

4) Click Save button.

Tips

Select a role and then click Modify/Delete button to modify or delete a role.

3.4.2 Add user

1) Click in the Settings pane, and then click user button, you can go to the following interface. See Figure 3-9.

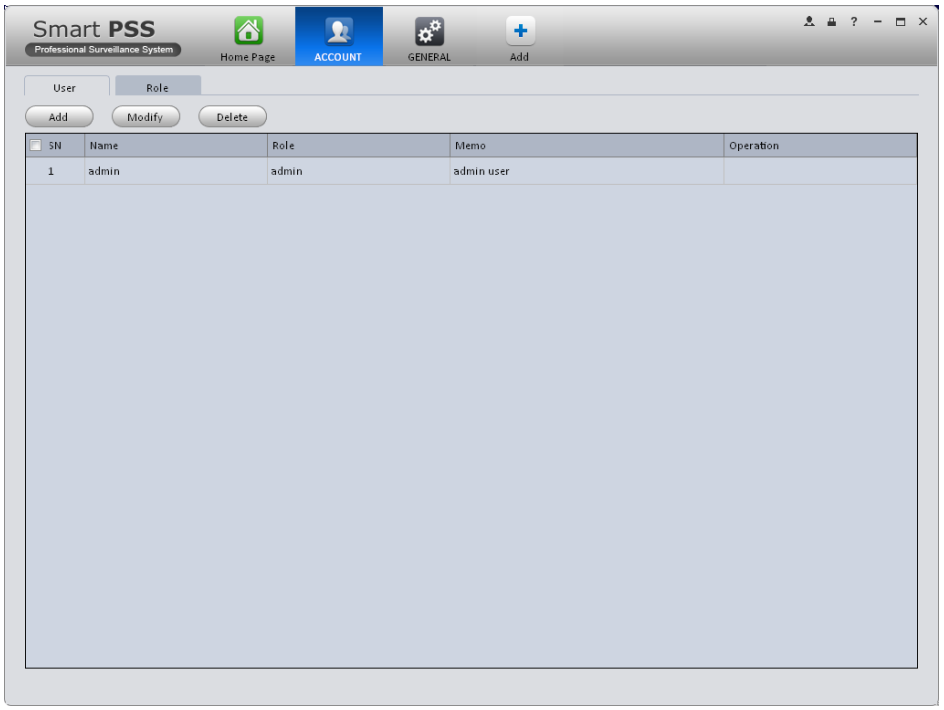


Figure 3-9

2) Click Add button, you can see system pops up the following interface. See Figure 3-10.

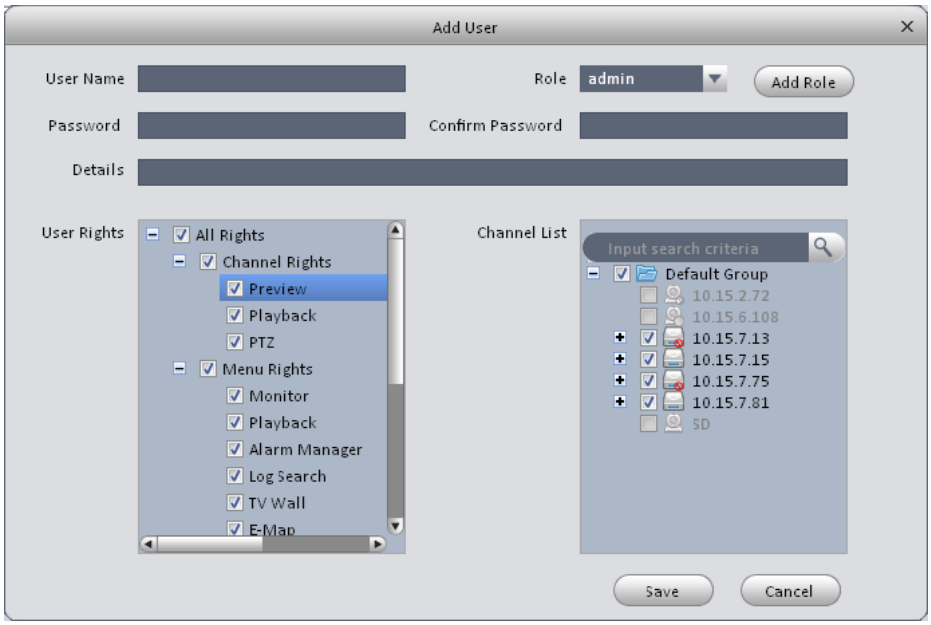


Figure 3-10

3) Select a role from the dropdown list, input user name, password and confirm password. Input some description information if necessary. Select rights for the new user.

4) Click Save button to add a new user.

Please refer to the following sheet for detailed information.

Item	Function
User name	Please input user name here.
Role	You can select user role from the dropdown list. Or you can click Add role button to add a new role.
Password	Please set user password.
Confirm password	Please input new password again.
Details	You can input some description information here if necessary.
User Rights	Here you can check the box to select corresponding rights for current user. If the new user is a manager, system checks all rights by default.
Channel list	Check the box here to select channel rights for current user.

Tips

Select a user name and then click Modify/Delete button to modify or delete a user.

5) Click Save button to add a new user.

3.5 Device Manager

Here you can add, modify and delete a device. You can also implement device channel group function.

3.5.1 Add Device

You can refer to the steps listed below to add, modify or delete a device manually or automatically.

1) Click icon in the settings pane, system goes to the device manager interface; you can see an interface is shown as in Figure 3-11.

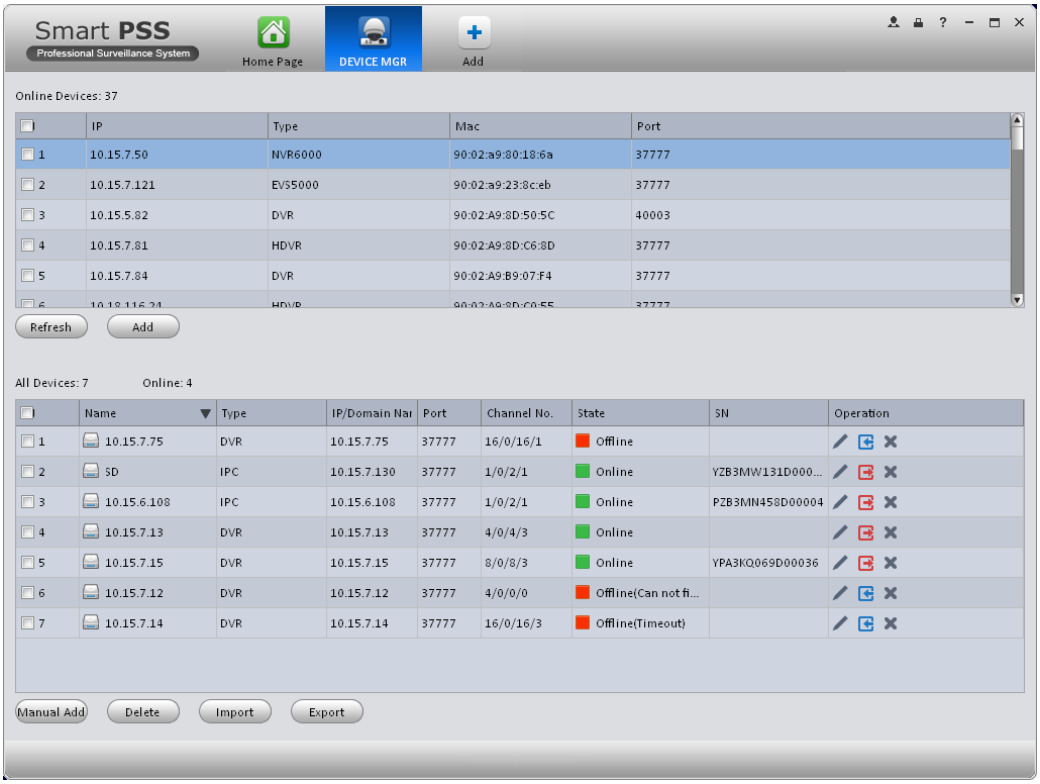


Figure 3-11

Click Manual Add button, the interface is shown as in Figure 3-12. Please input the corresponding information and then click Add button.

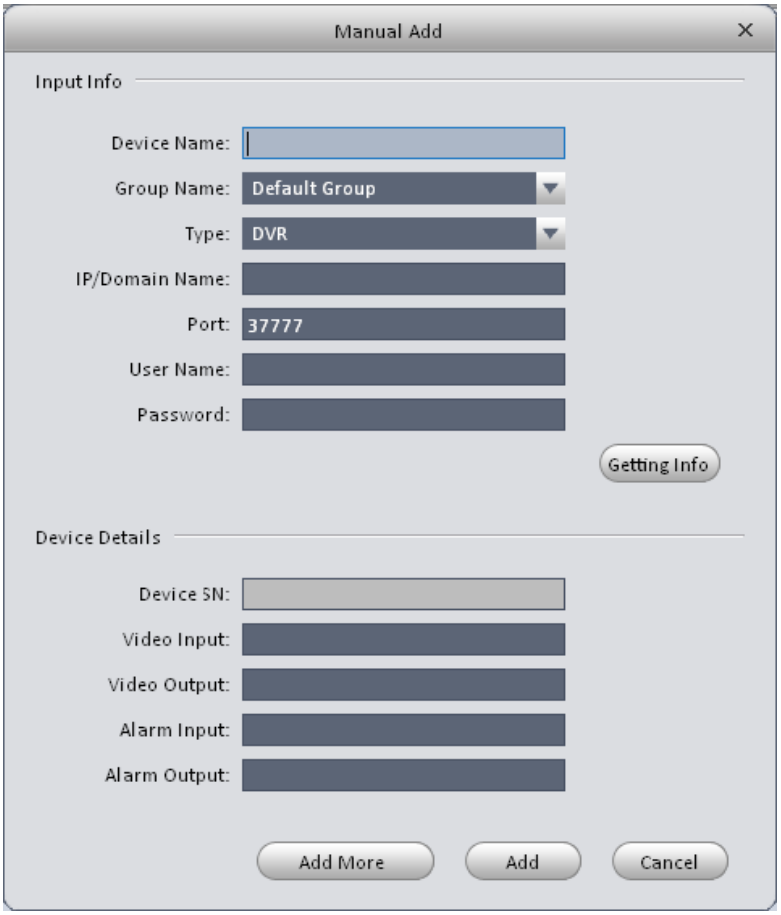


Figure 3-12

Please refer to the following sheet for detailed information.

Item	Function
Device name	Please input a device name here.
Group name	It defined by the device name.
Type	Select a device type from the dropdown list.。
IP/Domain name	Device IP address or domain name.
Port	Device IP port.
User name	The user name you login the device.
Password	The password you login the device.
Getting info	It is to get the online device information automatically.
Device SN	Device SN. Read-only.
Video input	Device video input channel amount.
Video output	Device video output channel amount.
Alarm input	Device alarm input channel amount.
Alarm output	Device alarm output channel amount.
Add more	Click it to save current setup and then add more devices.
Add	Click it to save setup and then exit current interface.

3.5.1.1 Add/Modify Device

Select a device in the list, and then click to modify, or click to delete it. Click to login the device manually. Click to logout the device manually. Or you can select several devices and then click the Delete button at the left bottom corner to remove them all.

Tips

Click button to import .xml file to add devices. Click button and then select save path to save current device list to .xml file.

3.6 Signals Manager

After you added a new device, you can go to the signals manager interface to set parameters.

On the main interface, click button in the Settings pane, you can go to the following interface. See Figure 3-13.

Figure 3-13

3.6.1 General

3.6.1.1 Network

Here is for you to set network information such as TCP/IP, connection, PPPoE, DDNS, IP filter, SMTP, Multicast, and alarm centre.

3.6.1.1.1 TCP/IP

Here you can set corresponding parameter when you are using TCP/IP connection. See Figure 3-14.

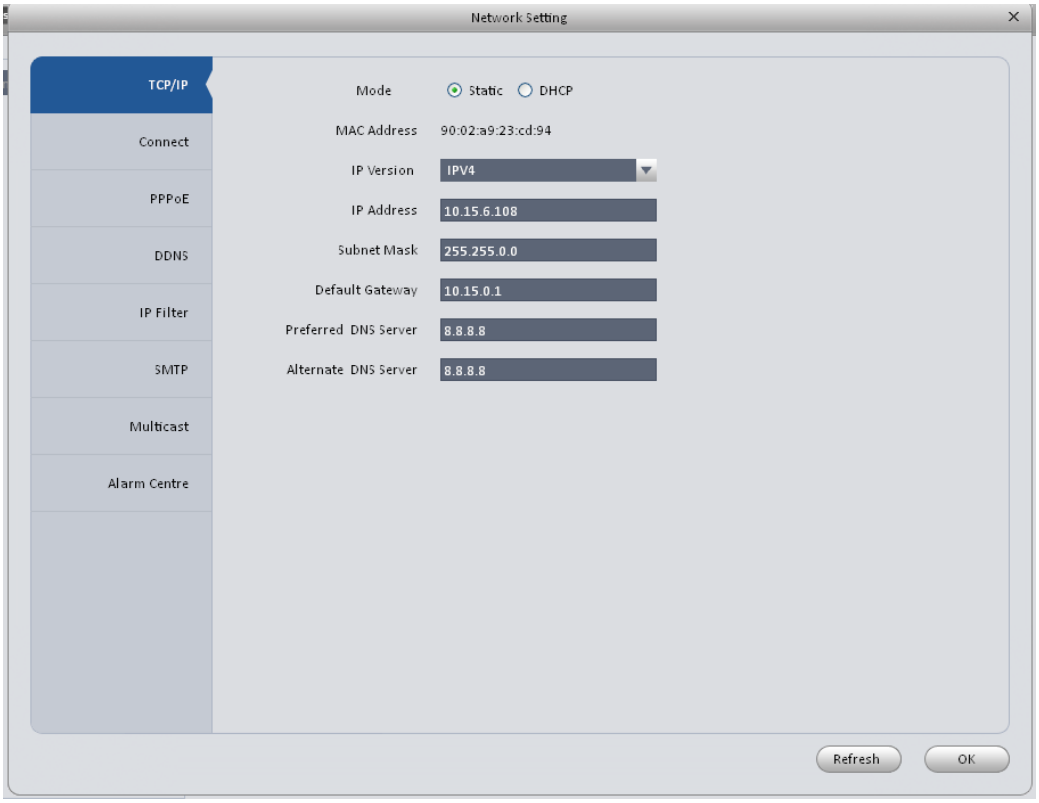


Figure 3-14

3.6.1.1.2 Connect

Here you can set max login account amount, TCP port, UDP port, HTTP port, RTSP port and etc. See Figure 3-15.

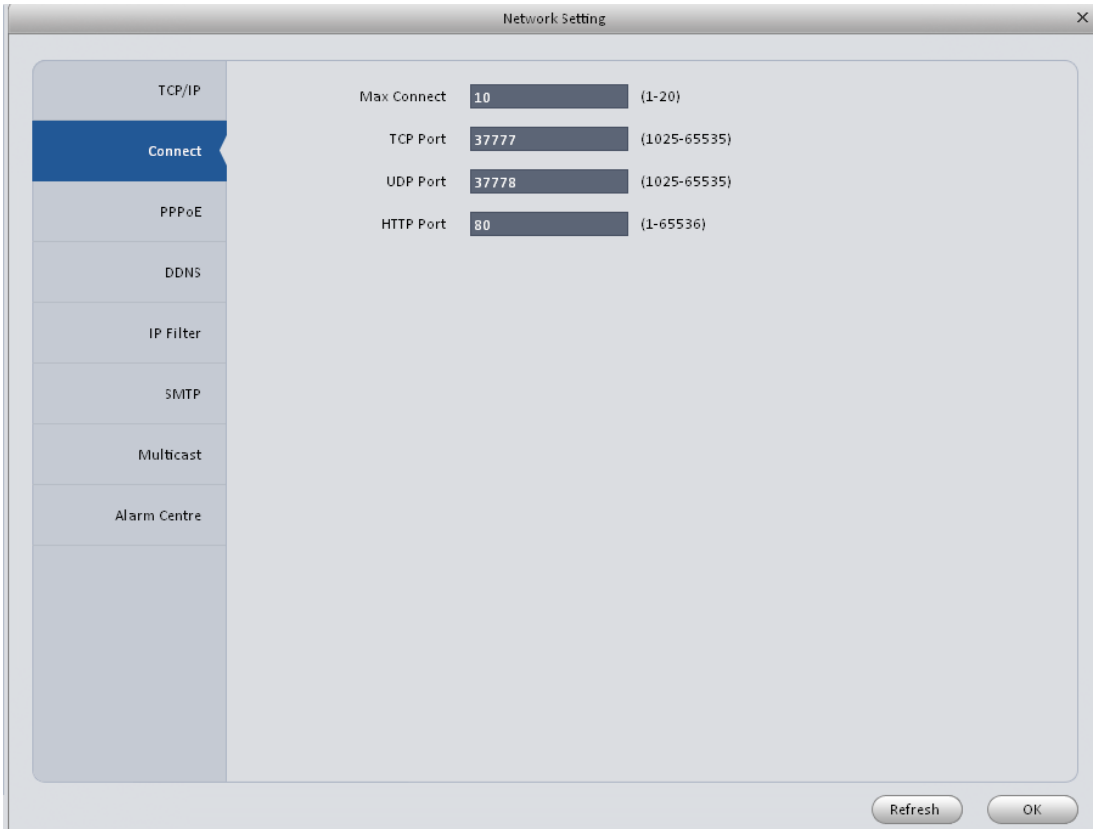


Figure 3-15

3.6.1.1.3 PPPoE

PPPoE interface is shown as below. See Figure 3-16.

Input “PPPoE name” and “PPPoE password” you get from your ISP (Internet service provider). Click OK button, you need to restart to activate your configuration.

After rebooting, device will connect to internet automatically. The IP in the PPPoE is the device dynamic value. You can access this IP to visit the device.

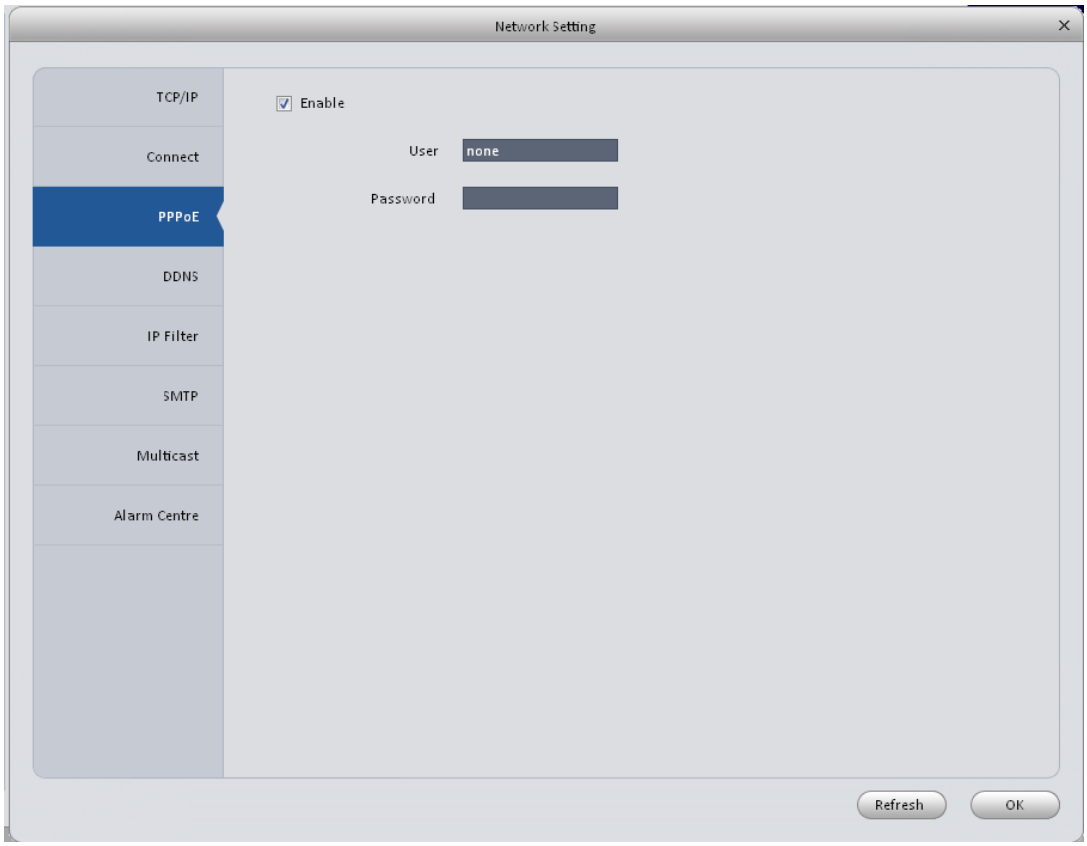


Figure 3-16

3.6.1.1.4 DDNS

DDNS setup interface is shown as in Figure 3-17.

You need a PC of fixed IP in the internet and there is the DDNS software running in this PC. In other words, this PC is a DNS (domain name server).

In network DDNS, please select DDNS type and highlight enable item. Then please input your PPPoE name you get from you IPS and server IP (PC with DDNS). Click OK button and then reboot system.

Click Ok button, system prompts for rebooting to get all setup activated.

After rebooting, open IE and input as below:

http：//(DDNS server IP)/(virtual directory name)/webtest.htm

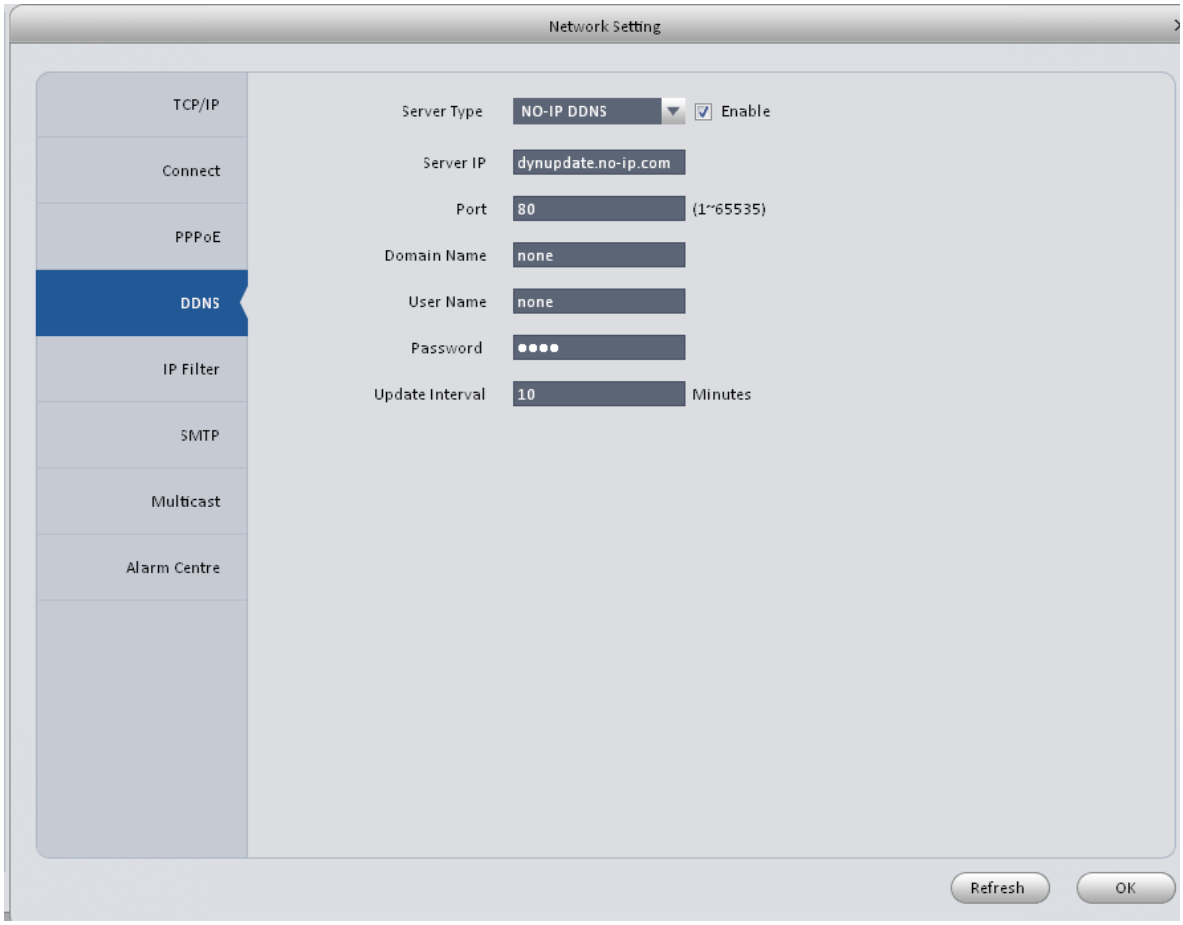


Figure 3-17

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 interval	Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here.

3.6.1.1.5 IP Filter

IP filter interface is shown as in Figure 3-18. You can add IP in the following list.

After you enabled whitelist function, only the IP listed below can access current device.

If you enable blacklist function, the following listed IP addresses can not access current device.

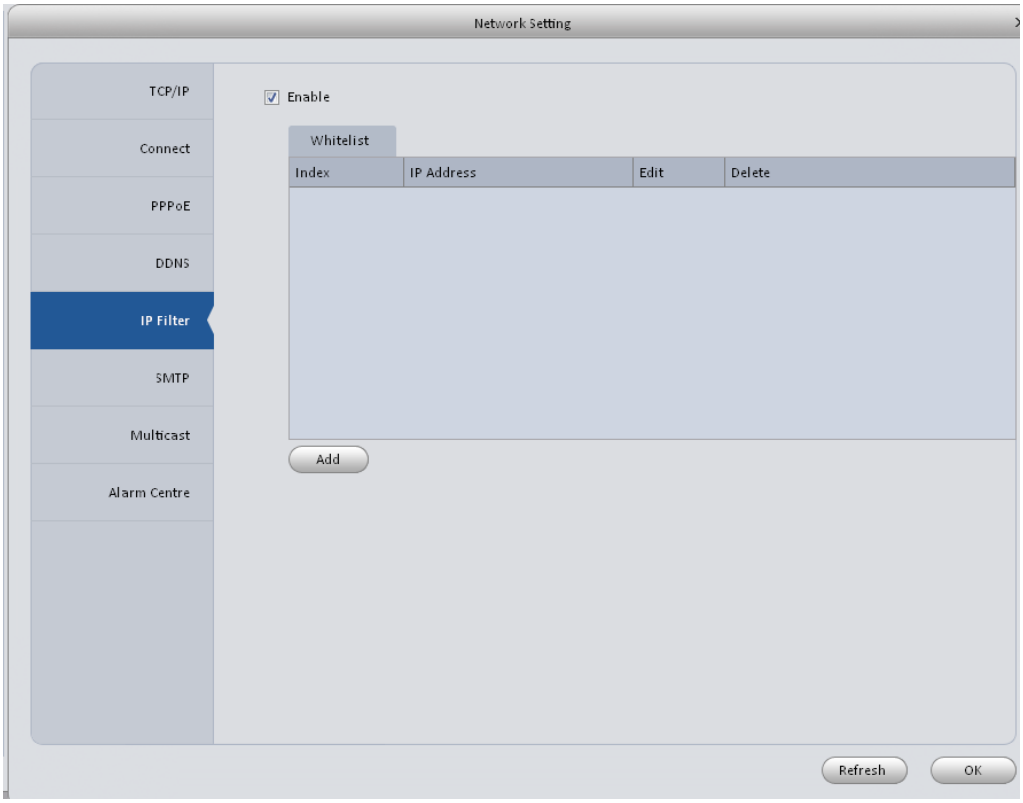


Figure 3-18

3.6.1.1.6 SMTP (Email)

The SMTP interface is shown as in Figure 3-19. Here you can set email receiver, encryption mode, send out interval and etc.

Figure 3-19

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.
Encryption mode	System supports SSL/NONE/TLS.
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.
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.
Health mail 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.
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.

3.6.1.1.7 Multicast

The multicast interface is shown as in Figure 3-20.

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.

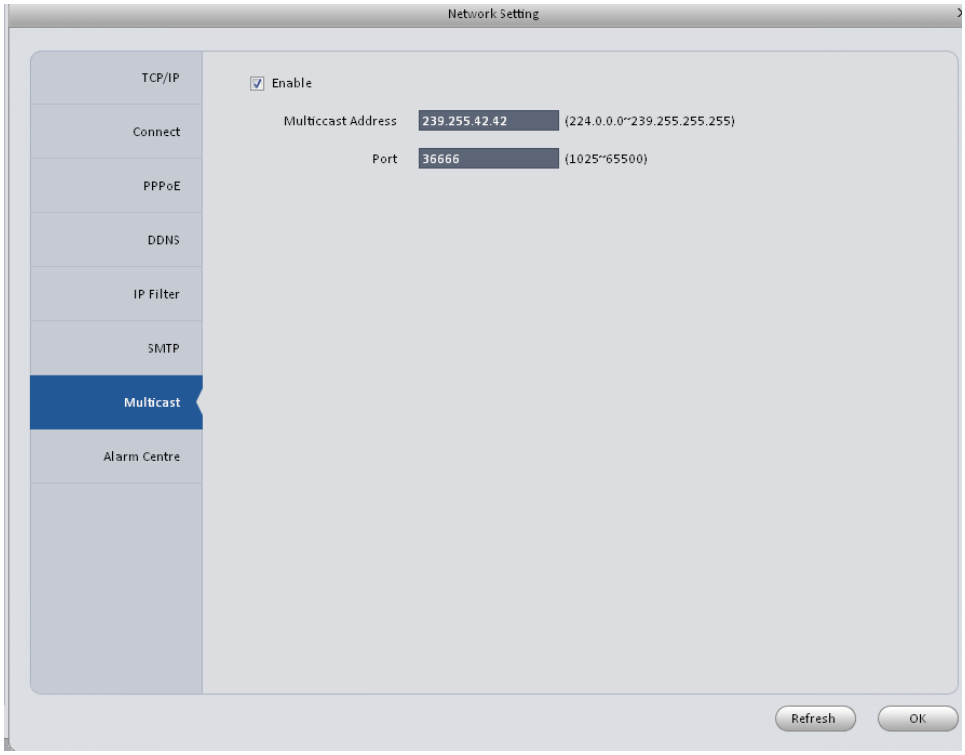


Figure 3-20

3.6.1.1.8 Alarm Server

The alarm centre interface is shown as below. See Figure 3-21.

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.

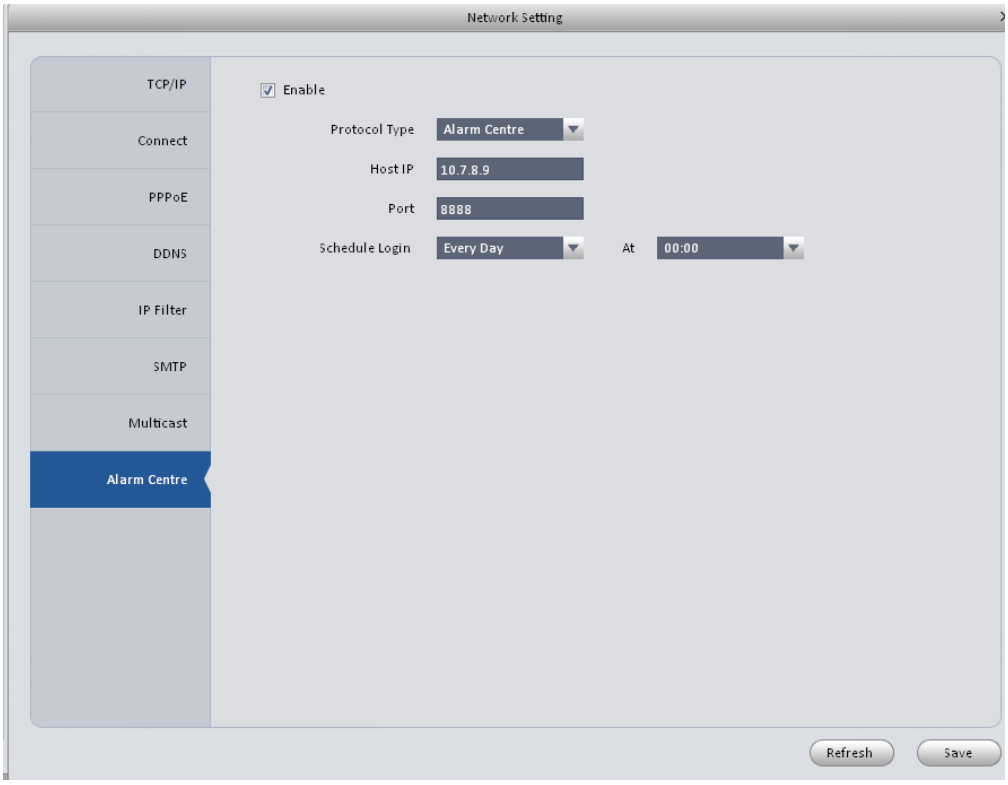


Figure 3-21

3.6.1.2 Remote

Here you can add remote device manually or automatically. See Figure 3-22.

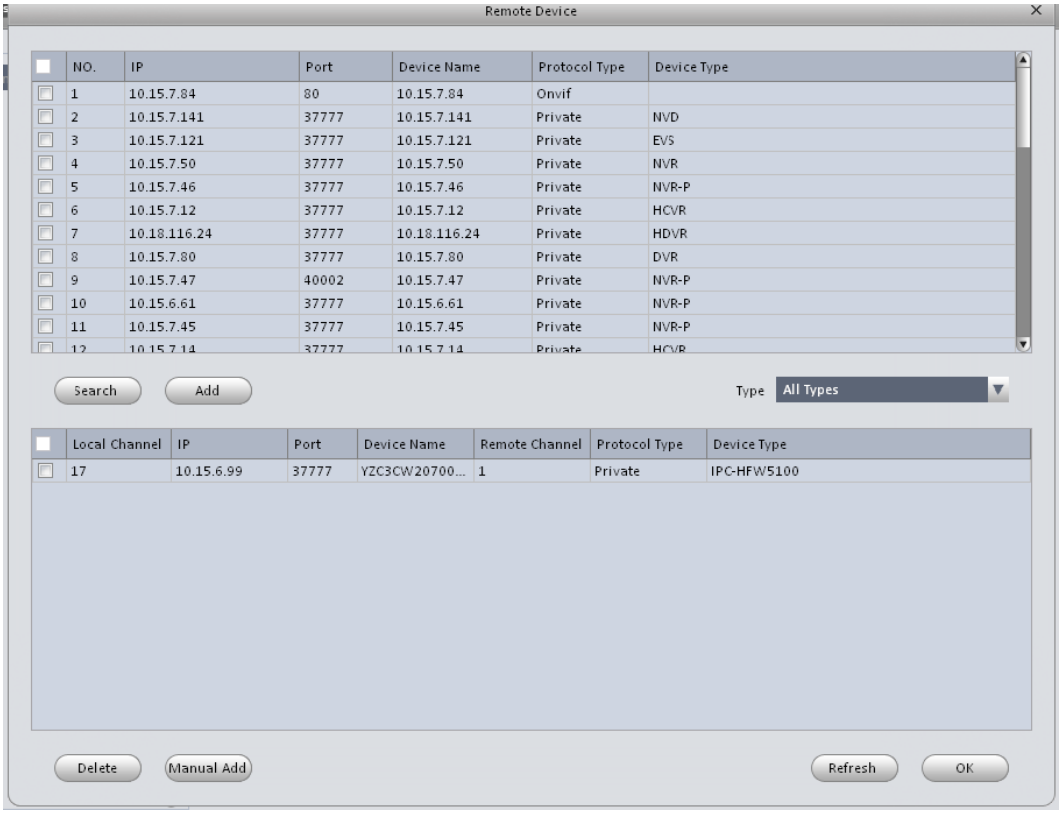


Figure 3-22

Click Search device button, system can list all the devices on the same IP section. Select a device and then click Add button; you can add a remote device.

Click Manual add button, System pops up the following dialogue box. See Figure 3-23. Please input the corresponding information and then click OK button to add a remote device.

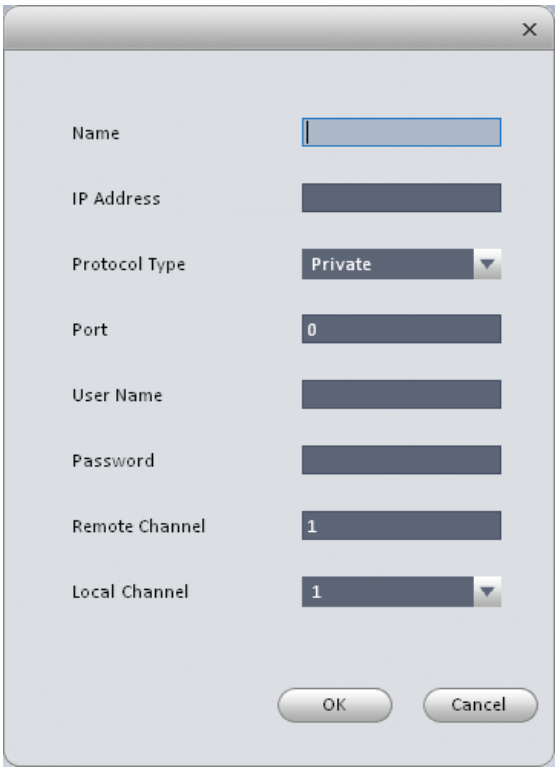


Figure 3-23

3.6.1.3 Encode

3.6.1.3.1 Audio/Video

The interface is shown as below. See Figure 3-24. Here you can set audio/video bit stream.

Figure 3-24

Please refer to the following sheet for detailed information.

Parameter	Function
Video enable	Check the box here to enable extra stream video. This item is enabled by default.
Stream type	It includes main stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events.
Encode mode	It is to set audio/video encode mode. Default setup is H.264.
Resolution	System supports various resolutions, you can select from the dropdown list.
FPS	PAL：1～25f/s；NTSC：1～30f/s.
Bit stream	In VBR mode, it is the max value of the bit stream. In the CBR mode, it is a fixed value.
Quality	You can select from the dropdown list.
Audio encode mode	Check the box here to enable audio function and select encode type from the dropdown list.
Watermark enable /watermark character	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.
Copy	Click it to copy current setup to other channel(s).

3.6.1.3.2 Snapshot

The snapshot interface is shown as below. See Figure 3-25.

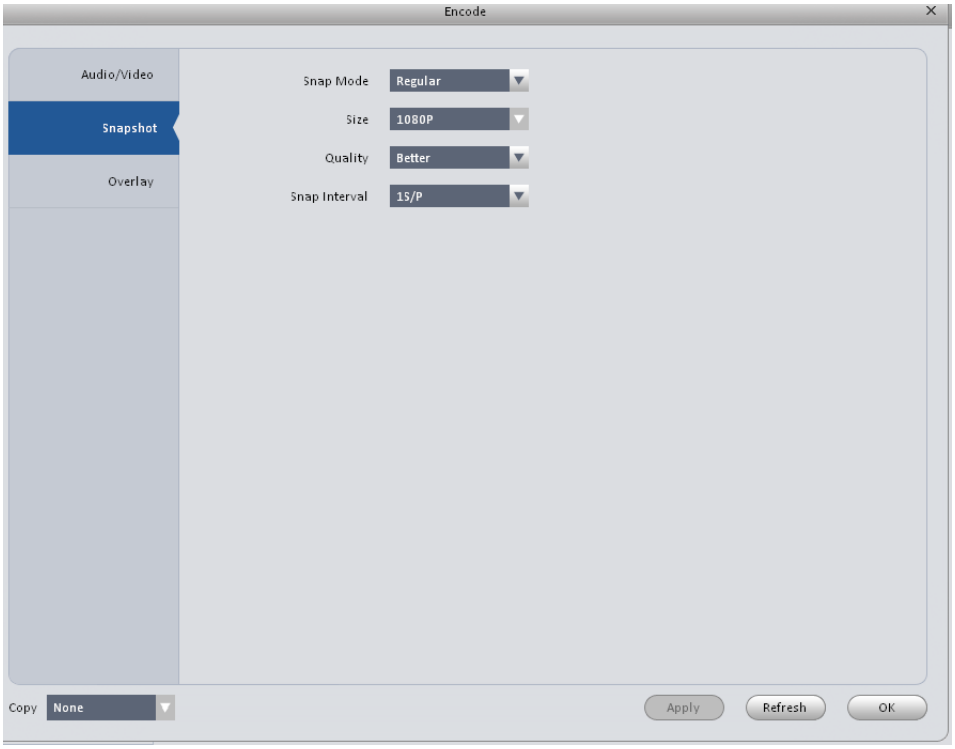


Figure 3-25

Please refer to the following sheet for detailed information.

Parameter	Function
Snapshot type	There are three modes. ● Regular: It enables snapshot function as you set on the snapshot plan. ● MD: It enables snapshot function when motion detect occurs. ● Alarm: It enables snapshot function when an alarm occurs.
Image size	It is the same with the resolution of the main stream.
Quality	It is to set the image quality.
Interval	It is to set snapshot frequency.
Copy	Click it; you can copy current channel setup to other channel(s).

3.6.1.3.3 Overlay

Here is for you to overlay information on the video. See Figure 3-26.

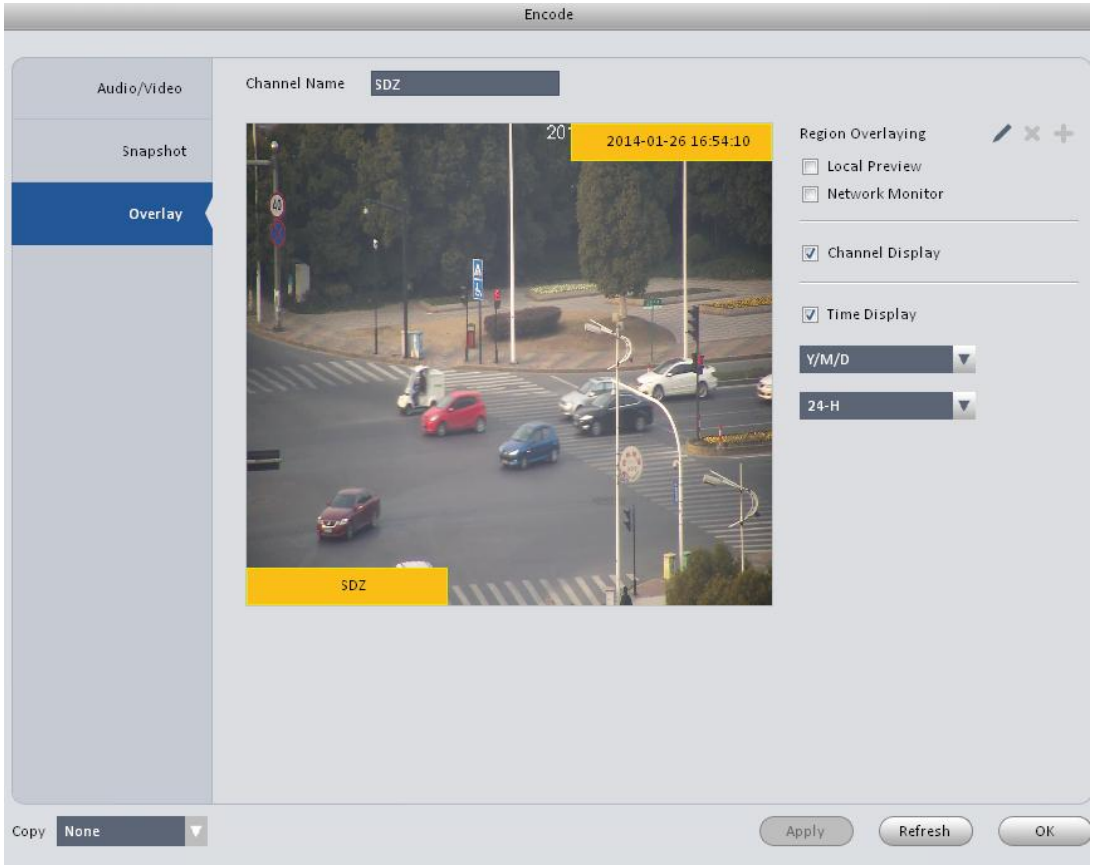


Figure 3-26

Please refer to the following sheet for detailed information.

Parameter	Function
Area-overlay	There are two types: Local preview/network monitor. Local preview: It is to shield the corresponding video under local preview mode. Network monitor: It is to shield the corresponding video under network monitor mode. Click button to set a zone.
Channel display	You can enable this function so that system overlays channel information in video window. Please input channel name here. You can use the mouse to drag the channel title position.
Time display	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.
Date format	Select date format from the dropdown list if you want to overlay date information.
Time format	Select date format from the dropdown list if you want to overlay time information.
Copy	Click it; you can copy current channel setup to other channel(s).

3.6.1.4 Image

Here you can set camera property. See Figure 3-27.

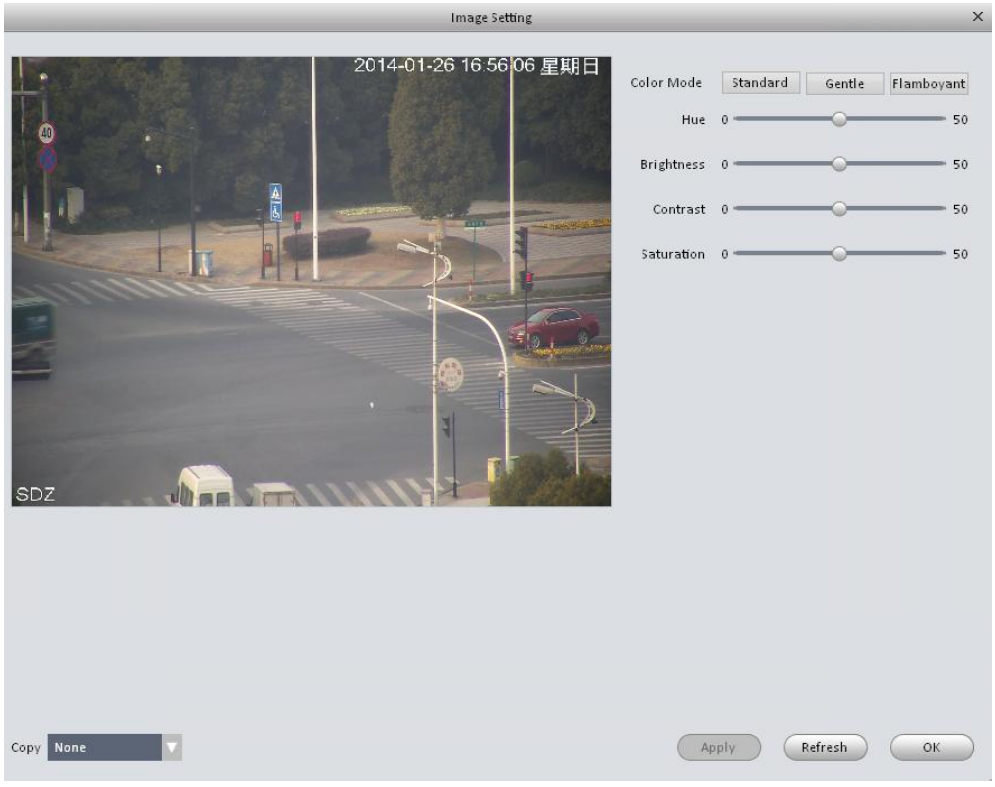


Figure 3-27

Please refer to the following sheet for detailed information.

Parameter	Function
Color mode	It is to set color mode.
Hue	It is to set color hue.
Brightness	It is to adjust color whole brightness. The large the value is, the bright the video is and vice versa. When you set, the dark pane and the bright pane of the video can be increased or decreased accordingly at the same time.
Contrastness	It is to set video contrast. The large the value is, the big the contrast is, vice, versa.
Saturation	It is to set color saturation. The larger the value is, the strong the color is and vice versa.

3.6.1.5 PTZ Control

It is for you to set PTZ parameters. See Figure 3-28.

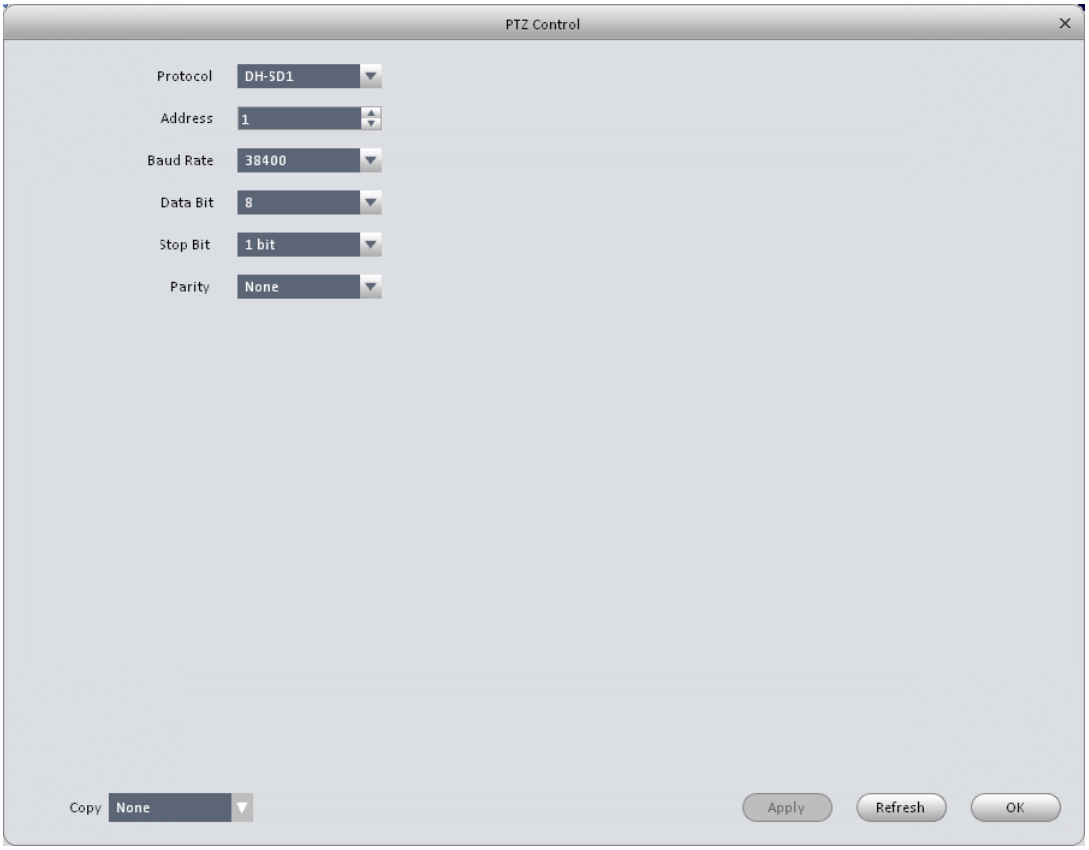


Figure 3-28

Please refer to the following sheet for detailed information.

Parameter	Function
Protocol	Select the corresponding dome protocol such as PELCOD.
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 Rate	Select the dome baud rate. Please set according to the speed dome dial switch setup.

Parameter	Function
Data Bit	Default setup is 4. 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.

3.6.2 Event

3.6.2.1 Video Detect

The video detect includes three types:

- Motion detect: Through analyze video, system can enable motion detect alarm when it detects any moving signal that reaches the sensitivity threshold you set here.
- Video loss: This function allows you to be informed when video loss phenomenon occurred. You can enable alarm output channel and then enable show message function.
- Camera masking: When someone viciously masks the lens, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity.

Here we use motion detect interface as an example. See Figure 3-29.

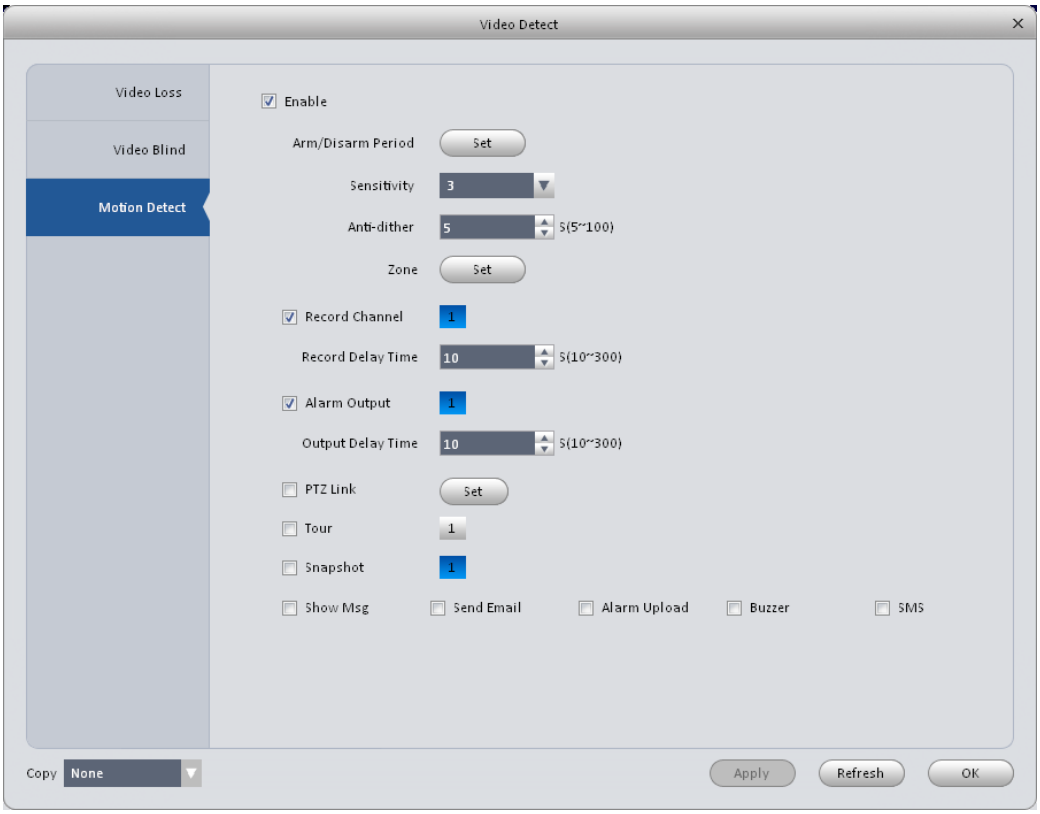


Figure 3-29

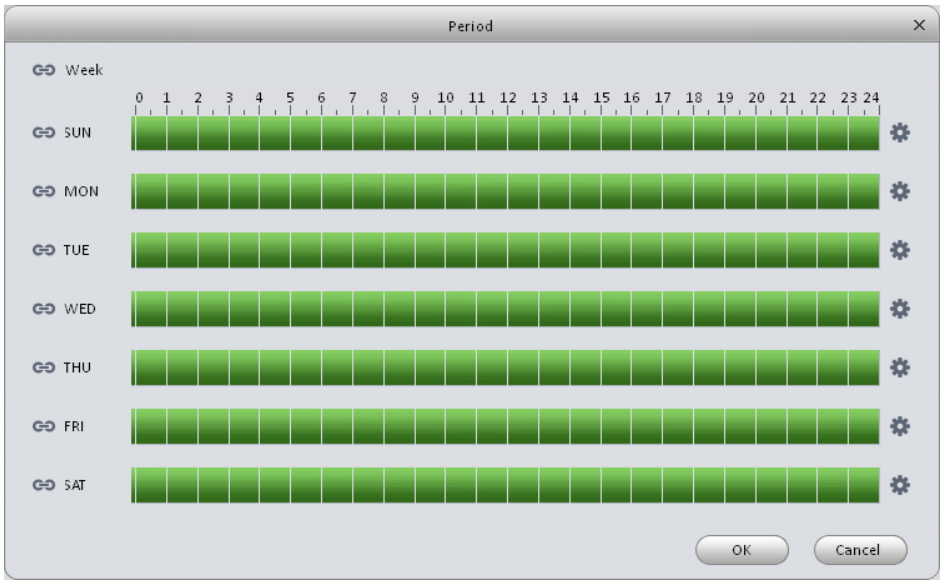


Figure 3-30

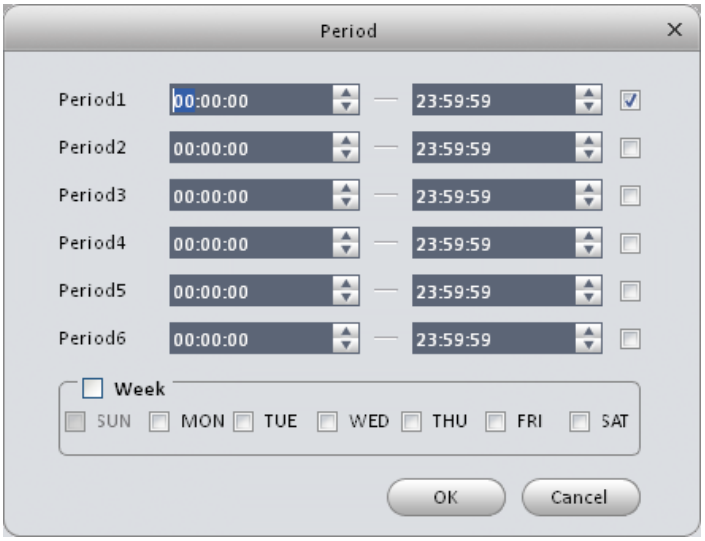


Figure 3-31

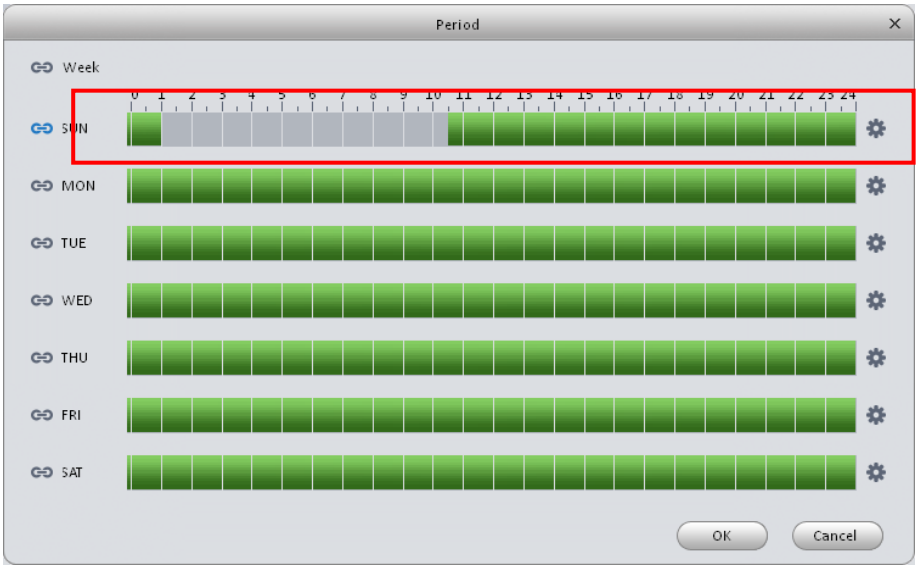


Figure 3-32

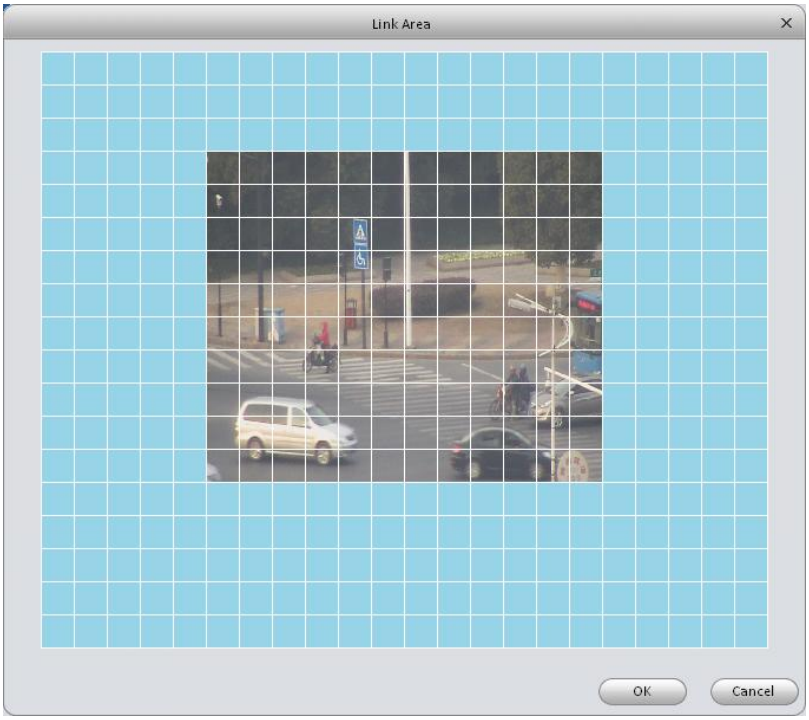


Figure 3-33

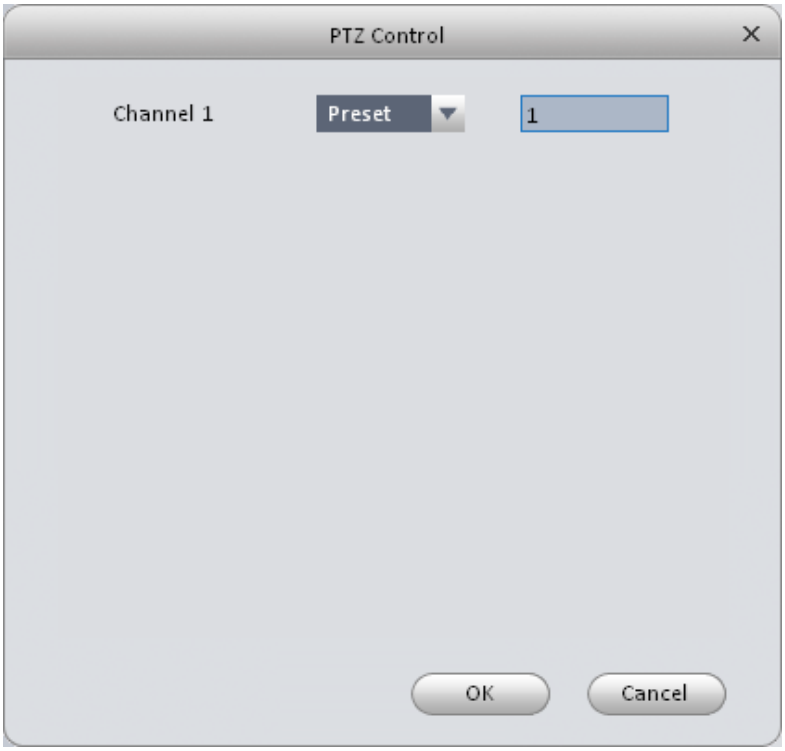


Figure 3-34

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	You need to check the box to enable motion detection function.

Parameter	Function
Arm/disarm Period	Motion detection function becomes activated in the specified periods. See Figure 3-30. There are six periods in one day. You can click to set (Figure 3-31) or use mouse to draw the corresponding period on the time bar directly (Figure 3-32). Click OK button, system goes back to motion detection interface, please click OK button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 100s.
Sensitivity	There are 10 levels. The sixth level has the highest sensitivity.
Zone	You can click this button to set motion detection zone. The interface is shown as in Figure 3-33. Do remember clicking OK button to save your motion detection 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 Record-> record plan to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended.
Alarm output	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Output delay	System can delay the alarm output for specified time after an alarm ended.
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.
Message	When 3G 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.
SMS	If you enabled this function, System can send out a message to specified phone to alert you when an alarm occurs.
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.
PTZ Activation	Here you can set PTZ movement when alarm occurs. See Figure 3-34.
Video Matrix	This function is for motion detect only. Check the box here to enable video matrix function.

3.6.2.2 Alarm

Before operation, please make sure you have properly connected alarm devices such as buzzer. The input mode includes local alarm and network alarm.

The local alarm interface is shown as in Figure 3-35.

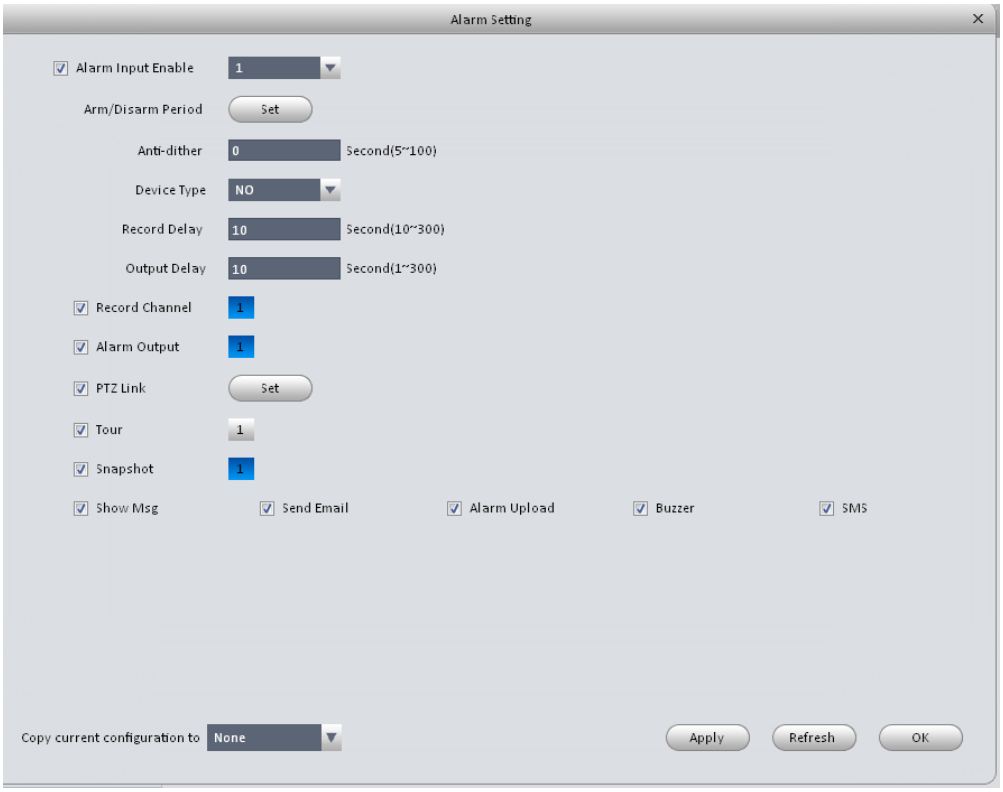


Figure 3-35

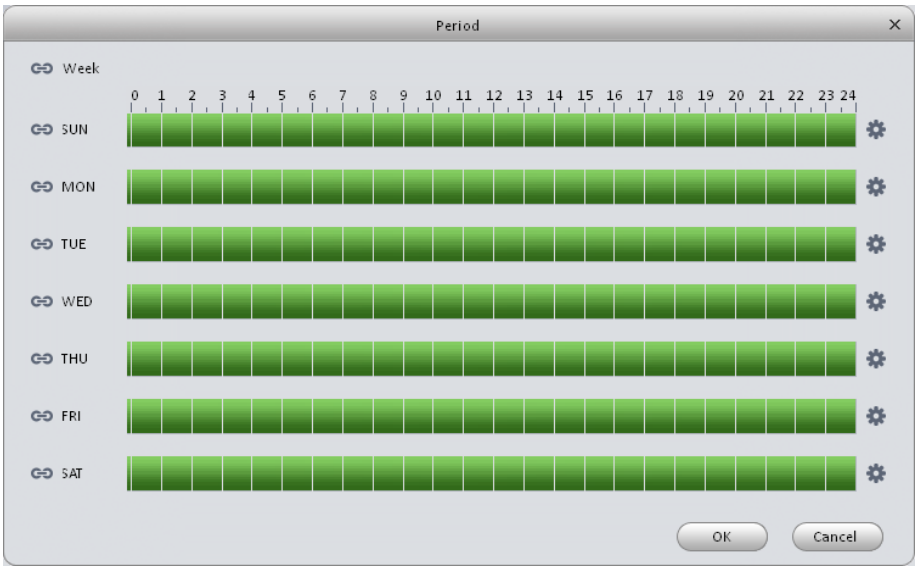


Figure 3-36

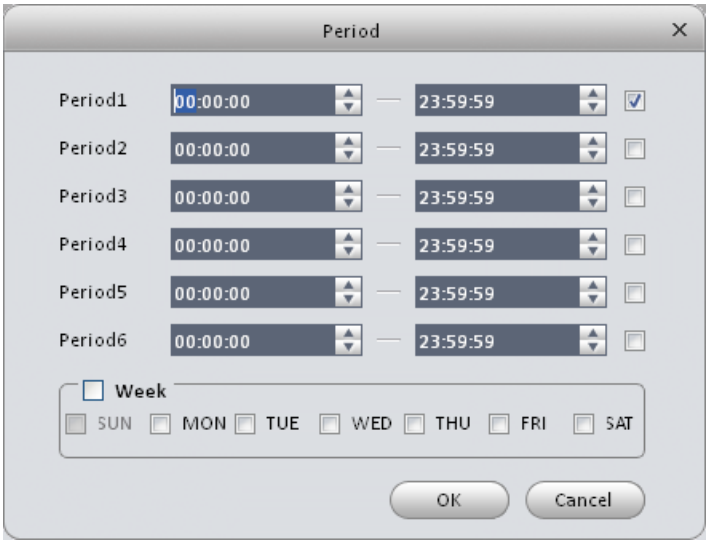


Figure 3-37

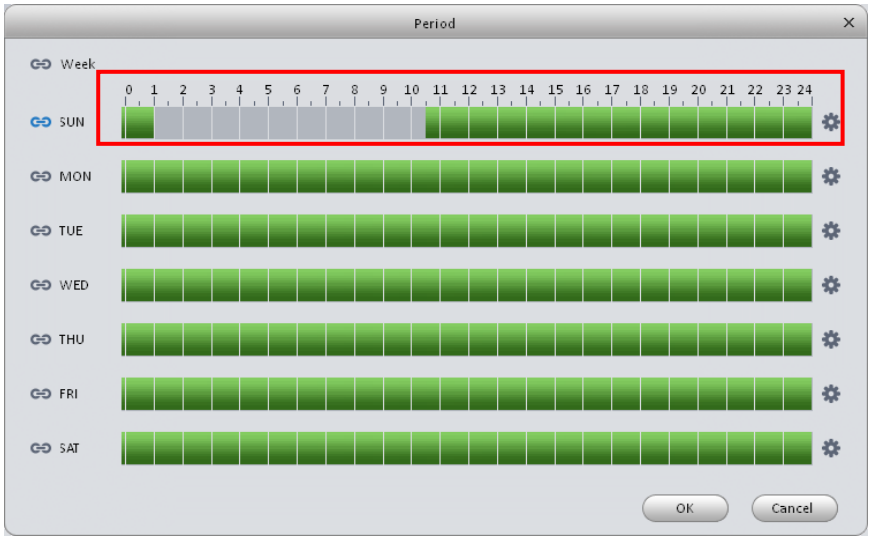


Figure 3-38

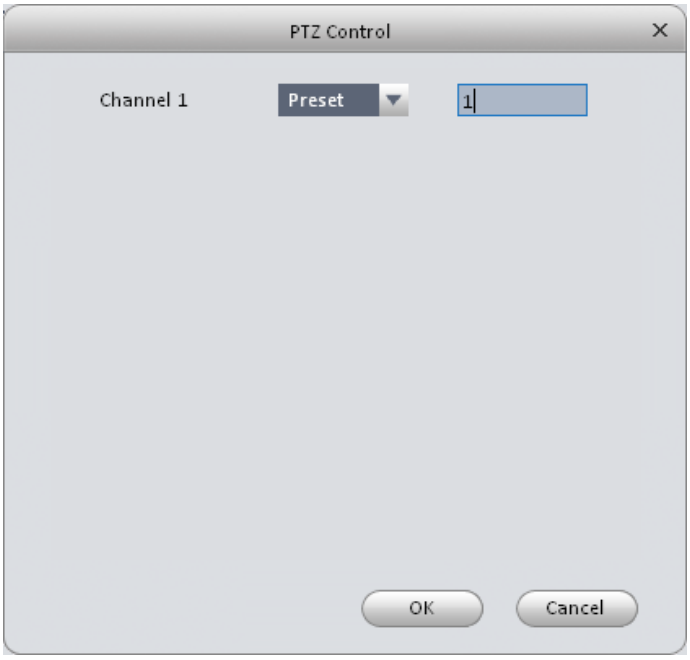


Figure 3-39

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.
Arm/disarm Period	This function becomes activated in the specified periods. There are six periods in one day. See Figure 3-36. There are six periods in one day. You can click to set (Figure 3-37) or use mouse to draw the corresponding period on the time bar directly (Figure 3-38). Click OK button, system goes back to alarm interface, please click OK button to exit.
Anti-dither	System only memorizes one event during the anti-dither period.
Device (Sensor) type	There are two options: NO/NC.
Record Delay	System can delay the record for specified time after alarm ended.
Output delay	System can delay the alarm output for specified time after an alarm ended.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please make sure you have set MD record in Record interface (Main Menu->Setting->Signal sources).
Alarm output	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Video matrix	Check the box here to enable video matrix function.
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.
SMS	If you enabled this function, System can send out a message to specified phone to alert you when an alarm occurs.
Tour	You need to check the box here to enable this function.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X. See Figure 3-39.

3.6.2.3 Abnormality

It includes six statuses: No device, no space, device error, net offline, IP conflict and MAC conflict. See Figure 3-40 through Figure 3-45.

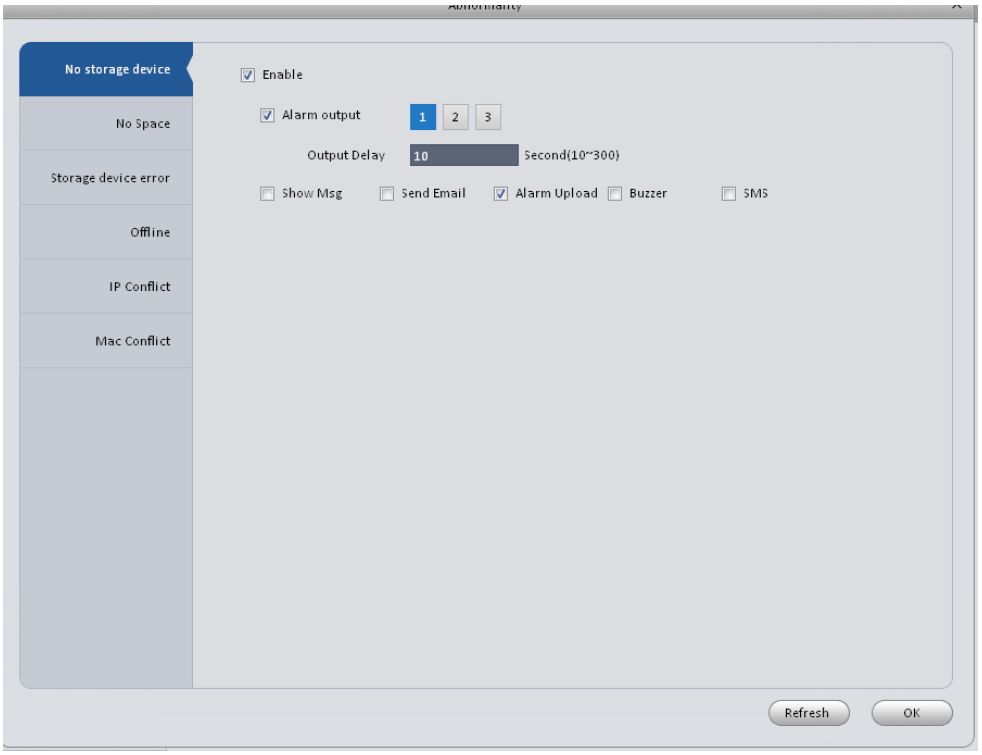


Figure 3-40

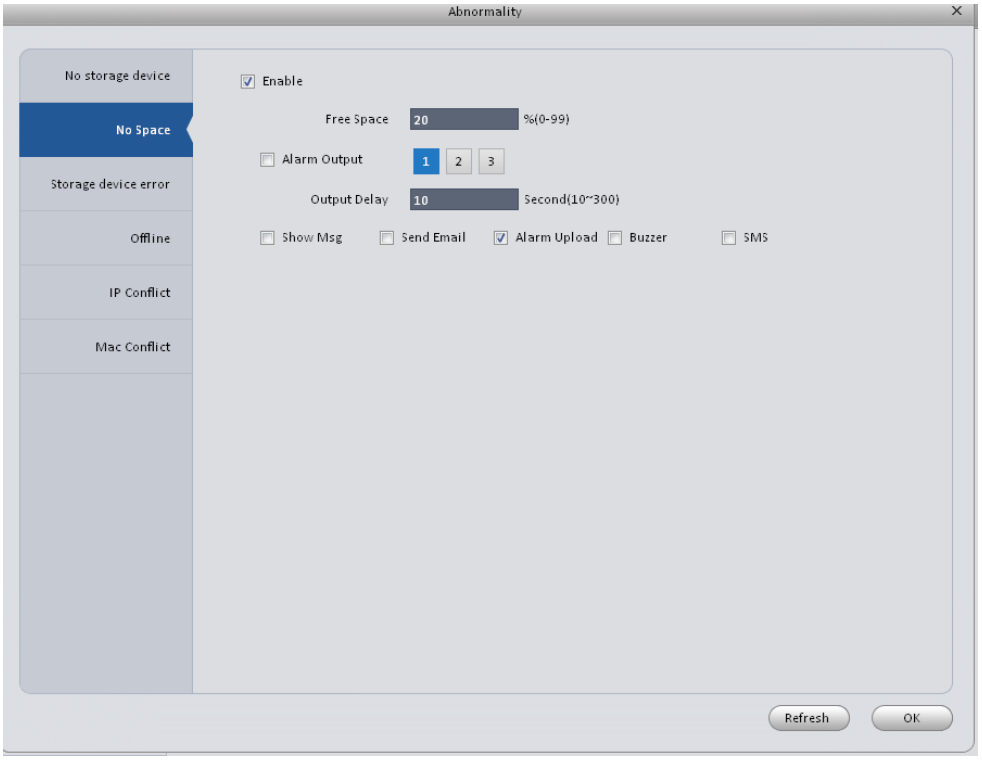


Figure 3-41

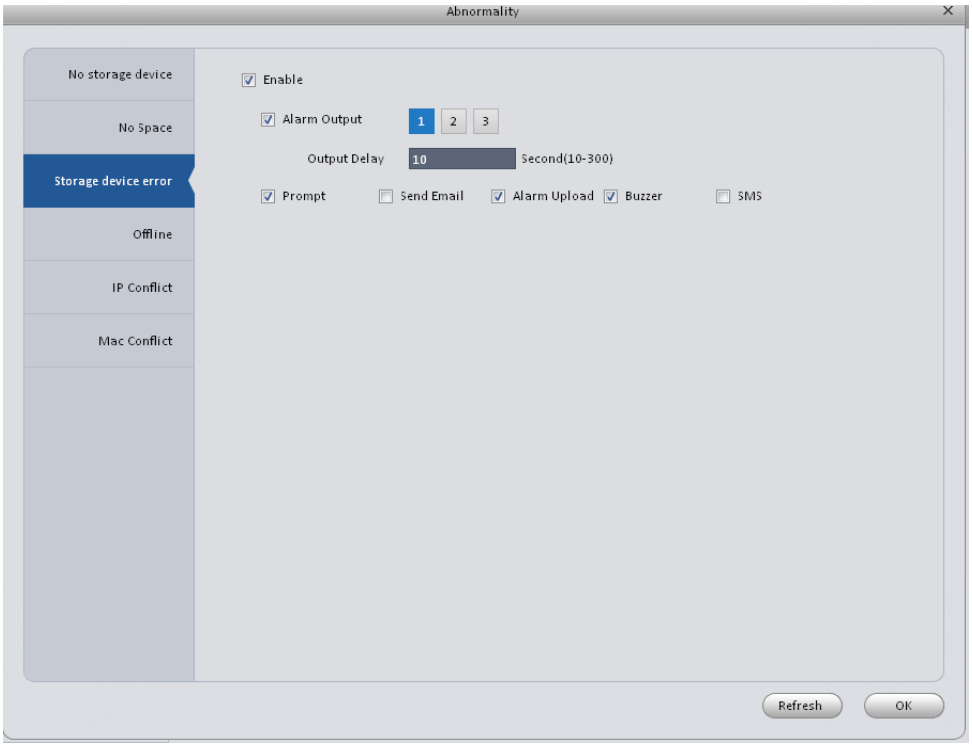


Figure 3-42

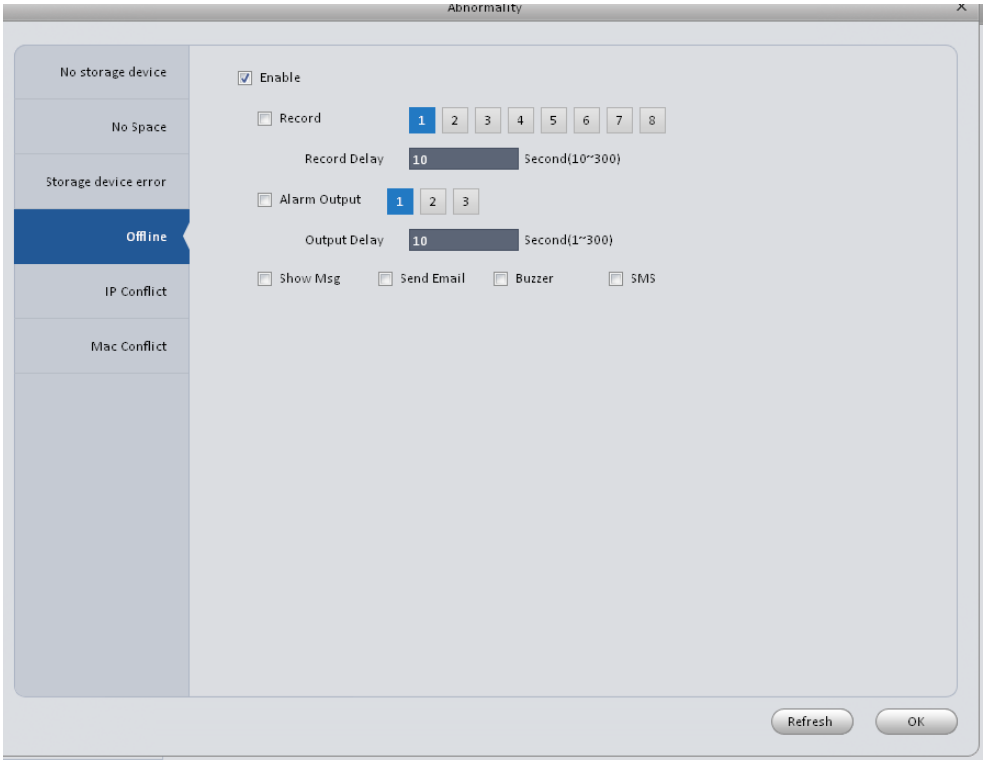


Figure 3-43

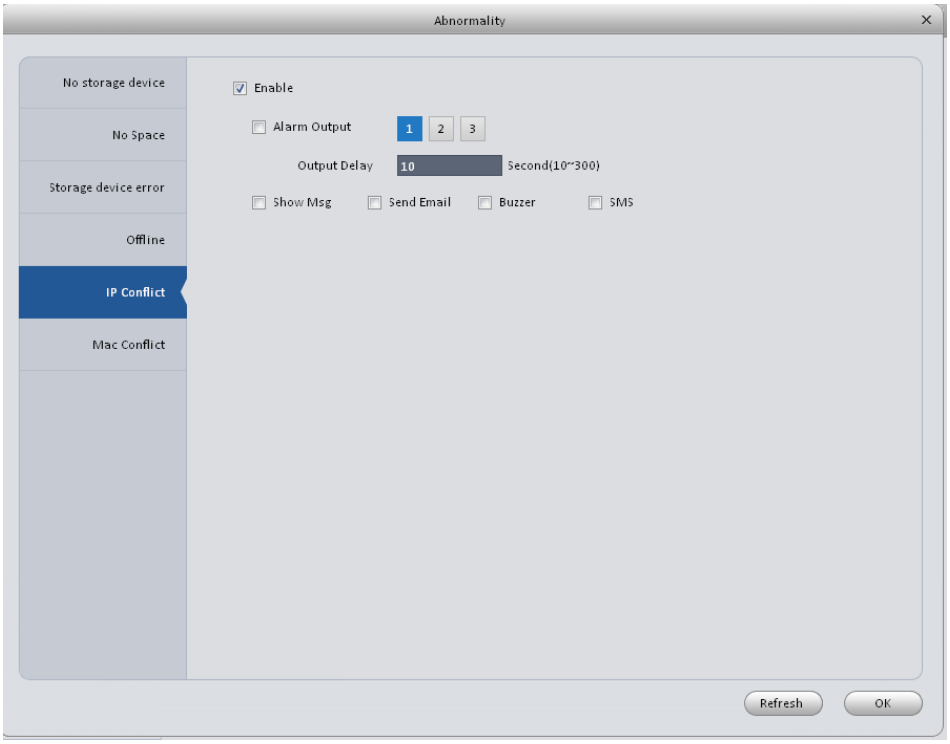


Figure 3-44

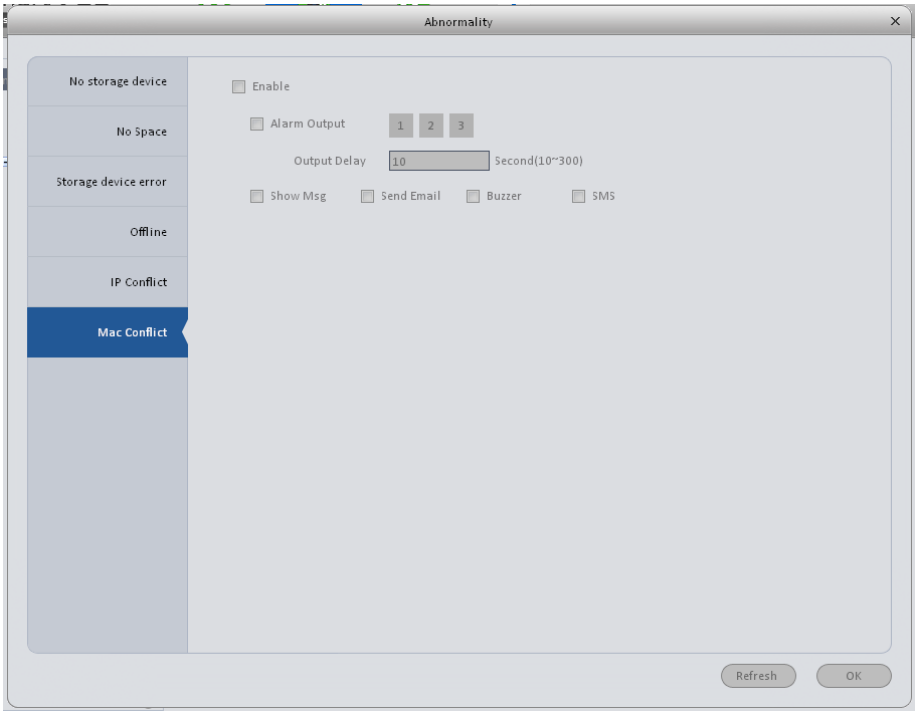


Figure 3-45

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Check the box here to enable selected function.
Alarm Output	Please select corresponding alarm output channel when an alarm occurs. You need to check the box to enable this function.
Output	The alarm output can delay for the specified time after an alarm stops.

Parameter	Function
delay	
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.
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.
SMS	If you enabled this function, System can send out a message to specified phone to alert you when an alarm occurs.

3.6.3 Record

3.6.3.1 Schedule

You can set the corresponding period to enable schedule record function. You can follow the steps listed below to set schedule record function.

1) Click Schedule button, you can go to the following interface. See Figure 3-46.

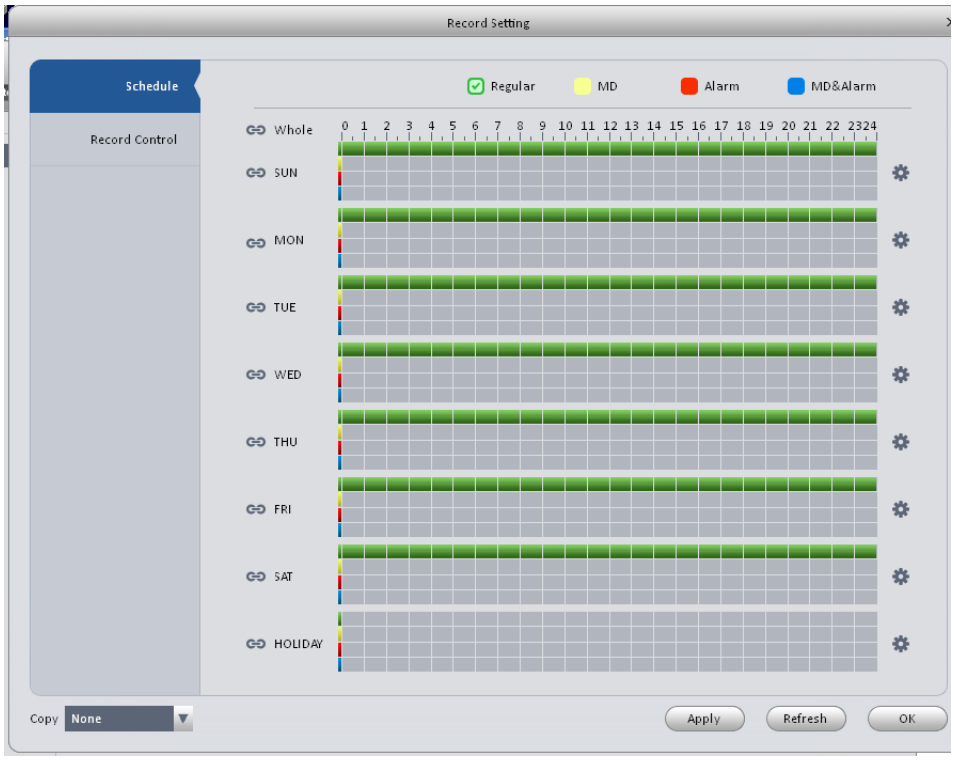


Figure 3-46

2) Click button after corresponding date, you can see an interface shown as below. See Figure 3-47.

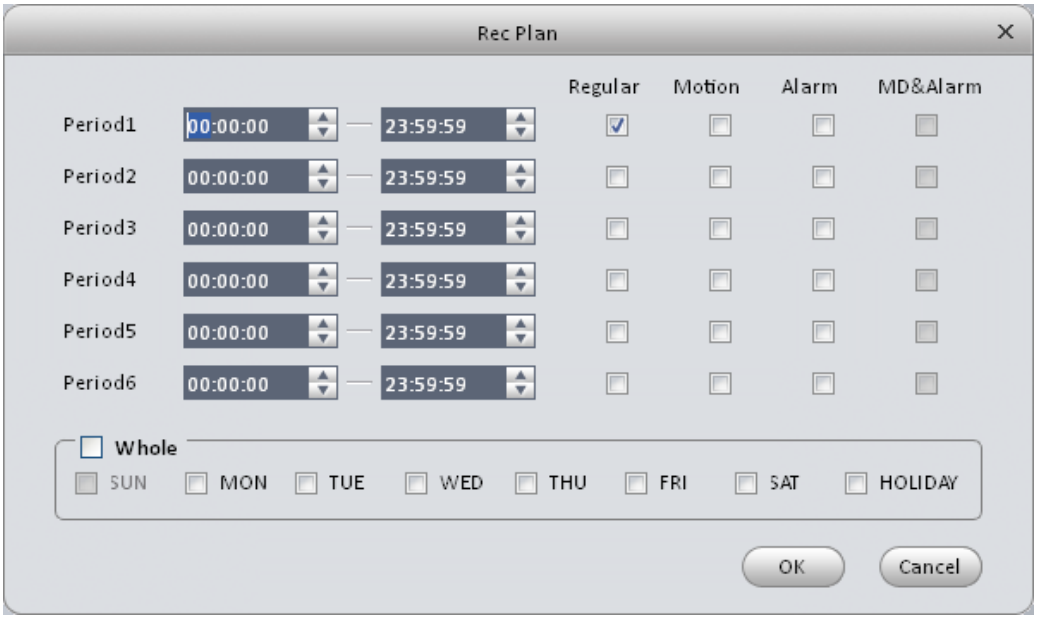


Figure 3-47

3) Set record period and check the box to select record type. Click OK button, now you can see an interface shown as in Figure 3-48.

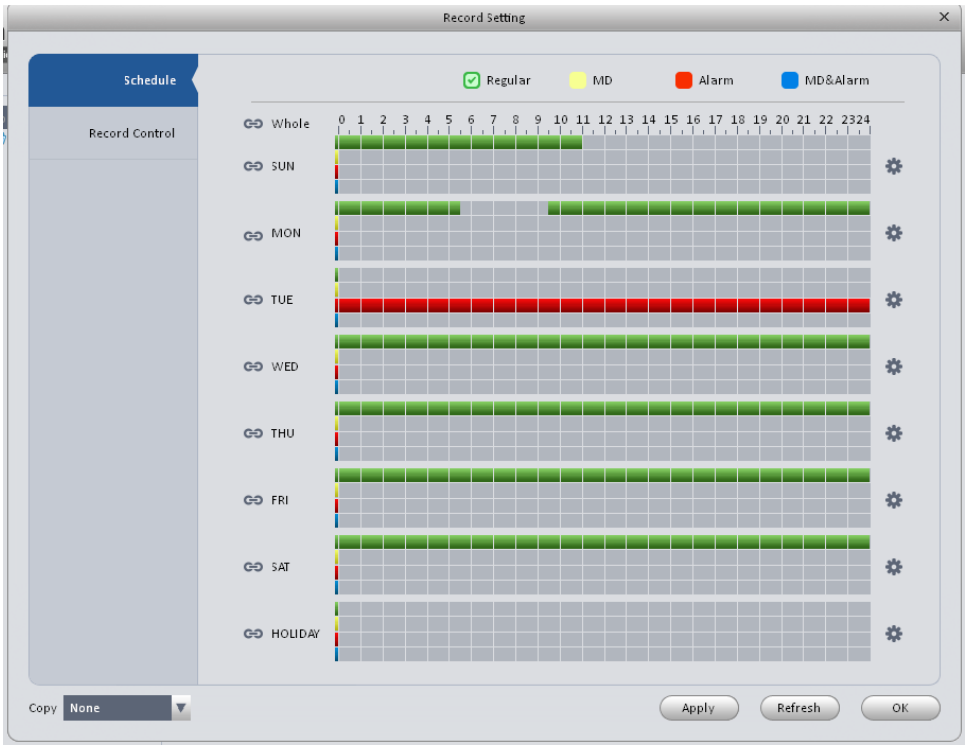


Figure 3-48

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

- Green color stands for the general record.
- Yellow color stands for the motion detect record.
- Red color stands for the alarm record.
- Blue color stands for MD and alarm record.

Tips

Click Copy button to copy current setup to other date.

3.6.3.1.1 Record Control

It is for you to set record control mode. See Figure 3-49.

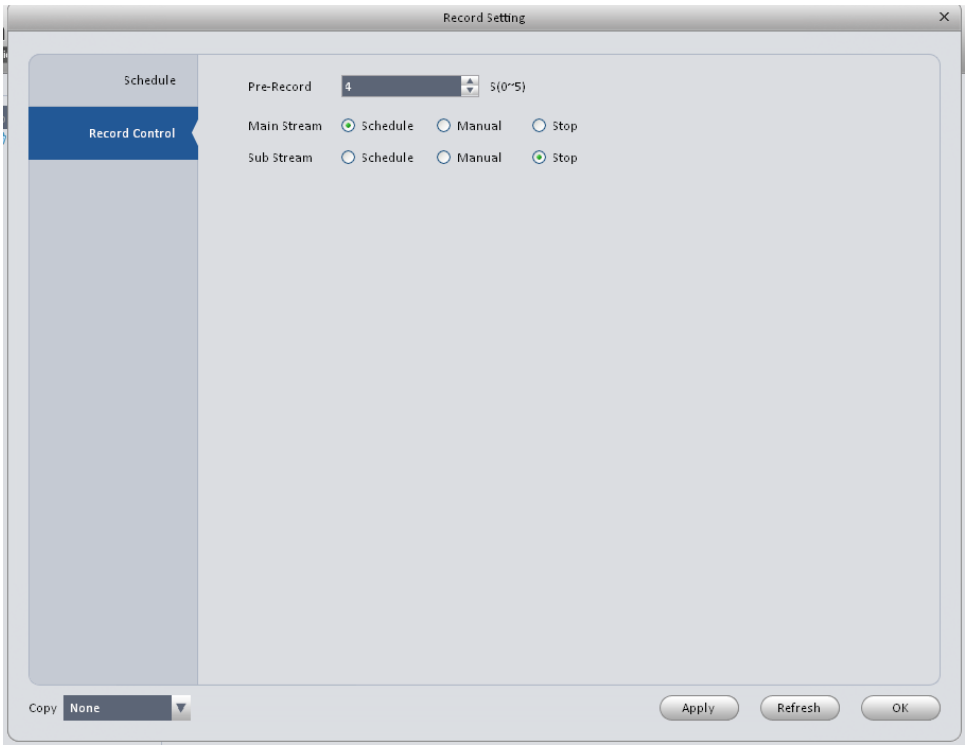


Figure 3-49

Please refer to the following sheet for detailed information.

Parameter	Function
Pre-record	Please input pre-record time here.
Main stream	It is to set main stream record mode. It includes: Schedule/manual/stop.
Sub stream	It is to set sub stream record mode. It includes: Schedule/manual/stop.

3.6.3.2 Disk

3.6.3.2.1 Local Store

The local interface is shown as in Figure 3-50. Here you can save data to local SD card or HDD.

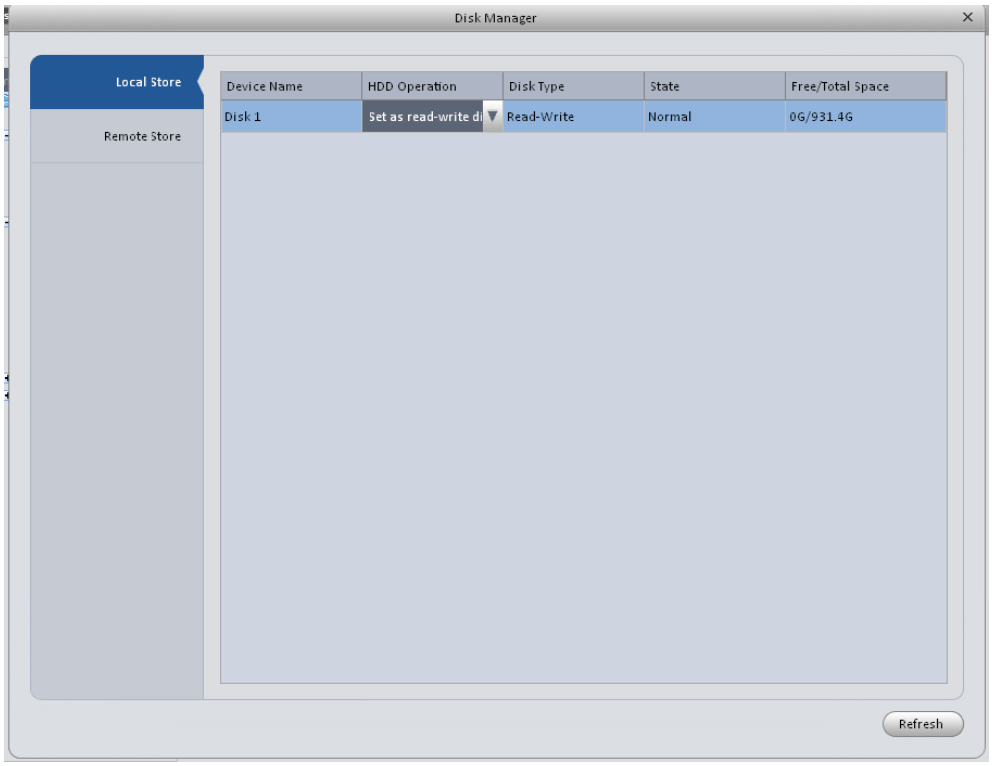


Figure 3-50

3.6.3.2.2 Remote store

It is for you to upload data to a PC via FTP. See Figure 3-51.

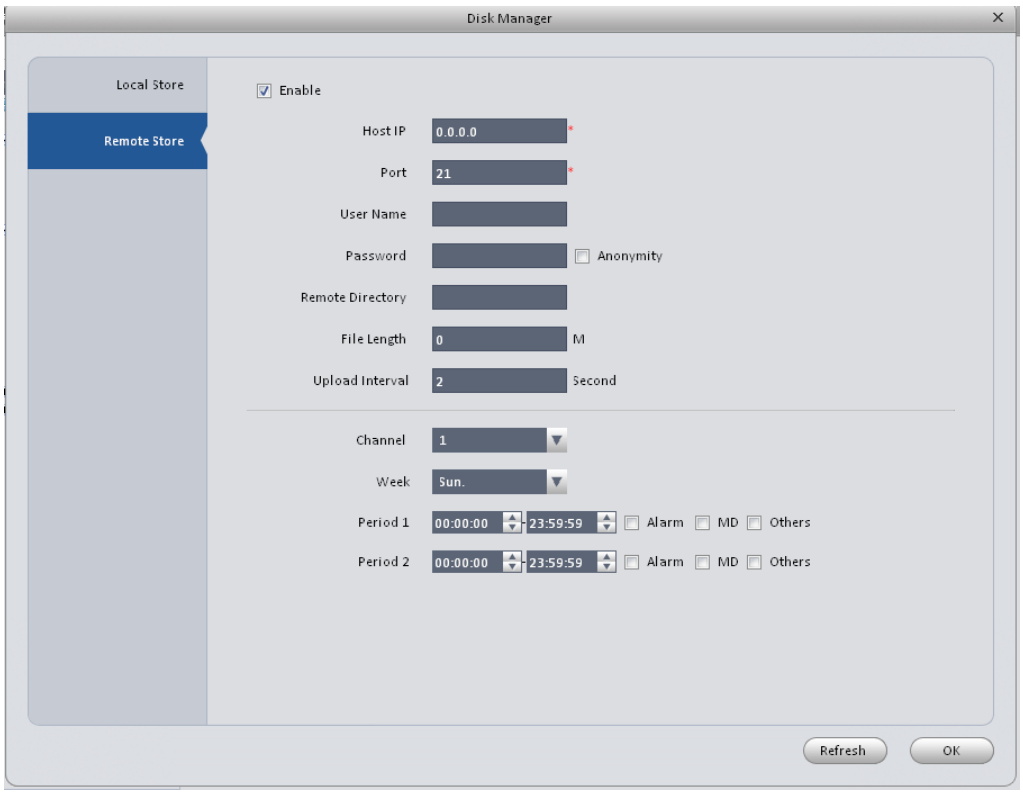


Figure 3-51

3.6.4 Maintenance

3.6.4.1 Account

Here you can add/modify/delete a group or add/modify/delete a user. System default user group is admin/user. System default user is admin/888888/666666.
Click Account button in Signals interface and then click Role button. See Figure 3-52.

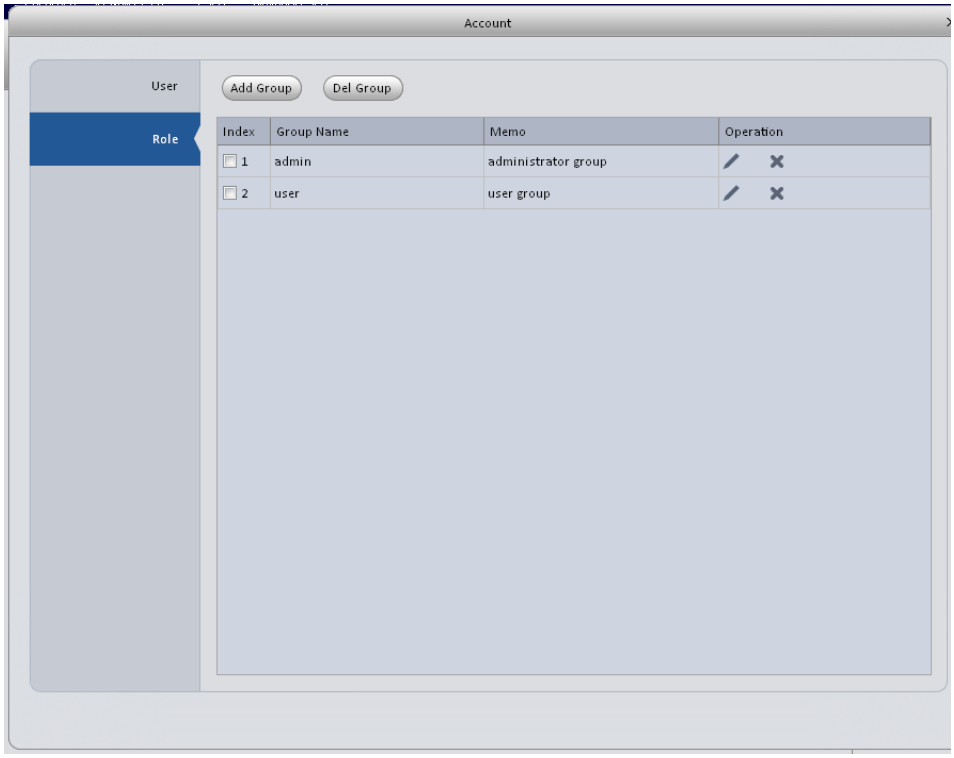


Figure 3-52

Click Add group button, you can see system pops up the following interface. See Figure 3-53. Please input a group name and then select corresponding rights, input some note information for your reference if necessary. Click OK button to exit.

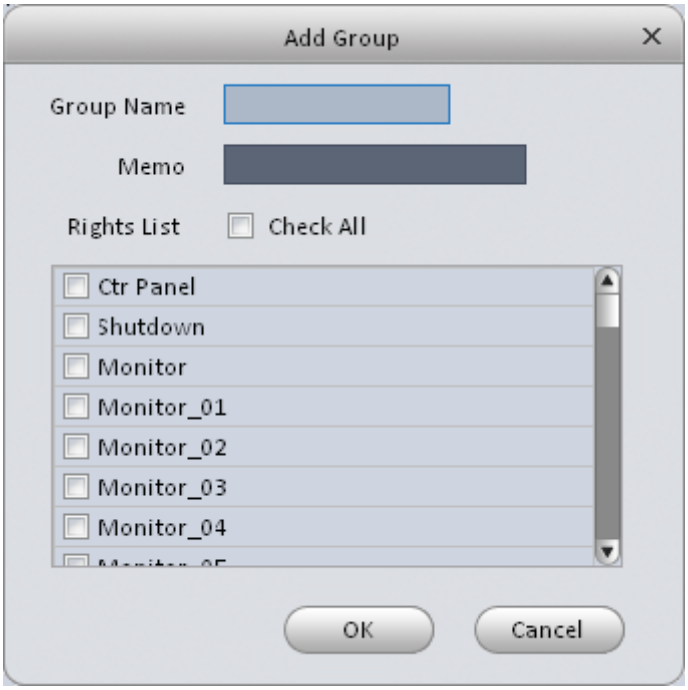


Figure 3-53

Go to the User interface, here you can add/remove user and modify user name. See Figure 3-54.

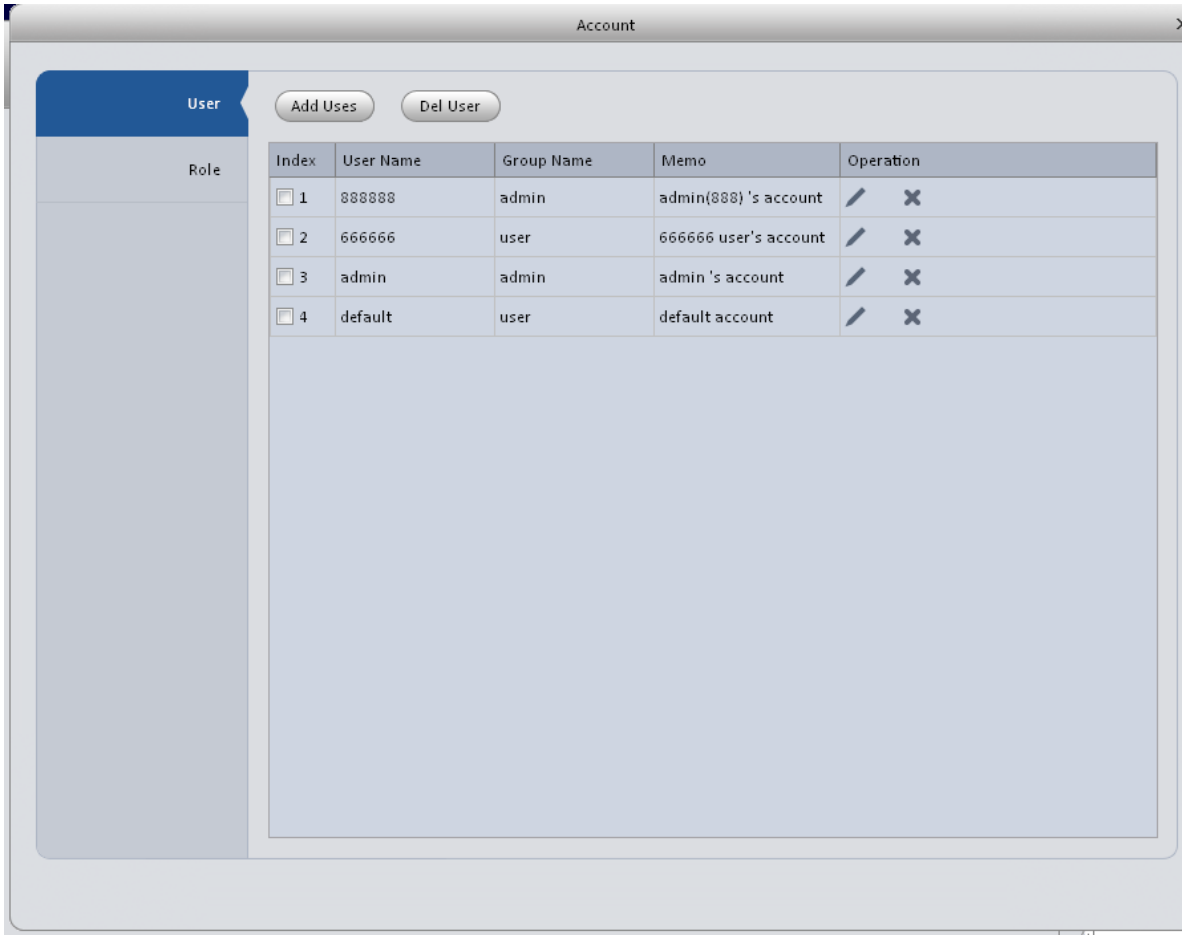


Figure 3-54

Click Add user button, you can see the following interface. See Figure 3-55. Please input user name, password, and select a group from the dropdown list. Select corresponding rights and then click OK button.

Tips

If you want to multiple users to use this account login at the same time, you need to check the box to select reusable function.

Figure 3-55

3.6.4.2 Maintenance

3.6.4.2.1 Host

Here you can set system time, date format, record period and etc. See Figure 3-56.

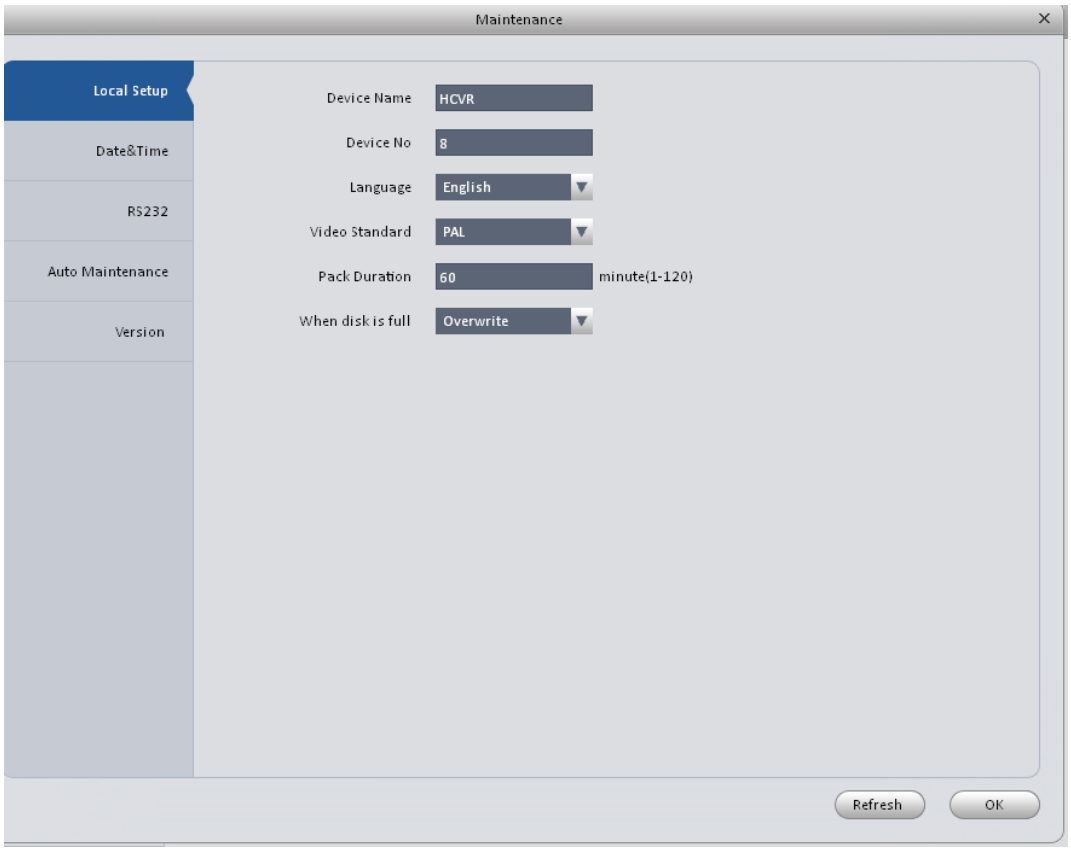


Figure 3-56

Please refer to the following sheet for detailed information.

Parameter	Function
Device name	It is to set device name.
Device No.	When you are using one remote control to manage multiple devices, you can give a serial numbers to the device. Before the operation, please make sure you have clicked address button on the remote control and input a number for current device.
Language	You can select the language from the dropdown list. **Please note the device needs to reboot to get the modification activated.**
Video Standard	This is to display video standard such as PAL.
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 duration	Here is for you to specify record duration.

3.6.4.2.2 Date&Time

The date and time interface is shown as in Figure 3-57.

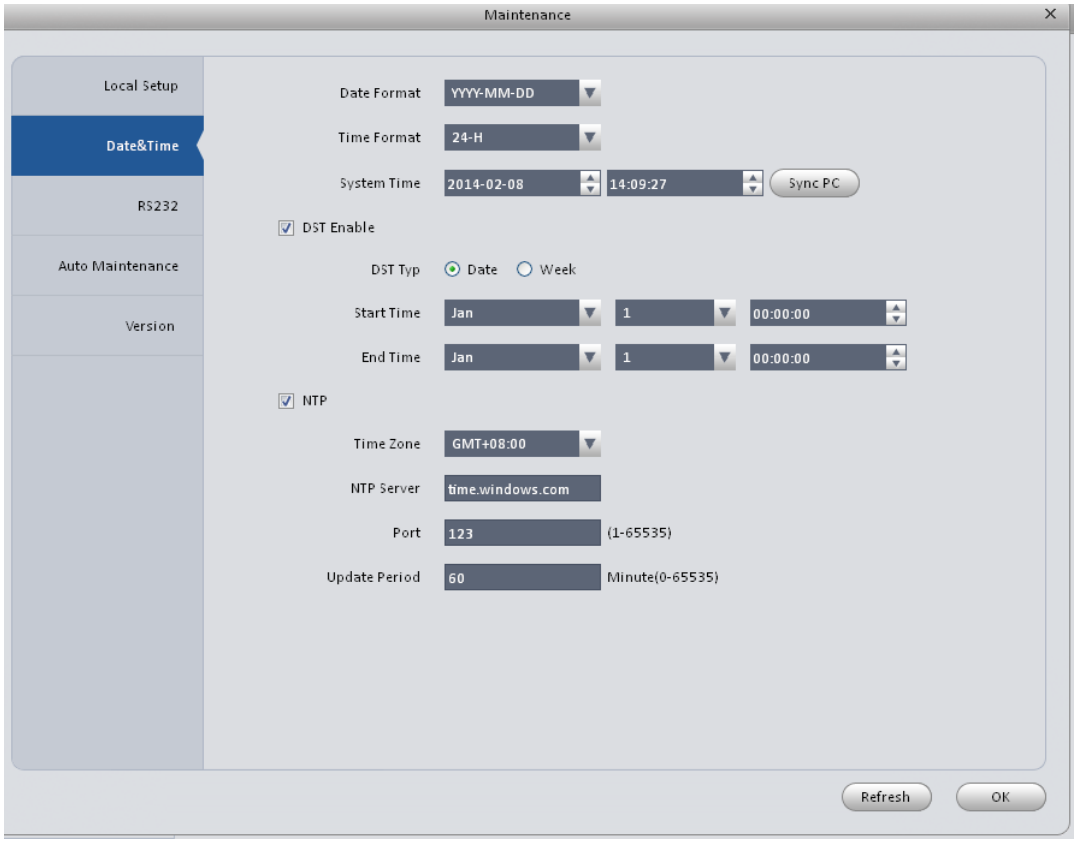


Figure 3-57

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 enable	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.
Update period	It is to set the sync periods between the device and the time server.

3.6.4.2.3 RS232

The RS232 interface is shown as in Figure 3-58.

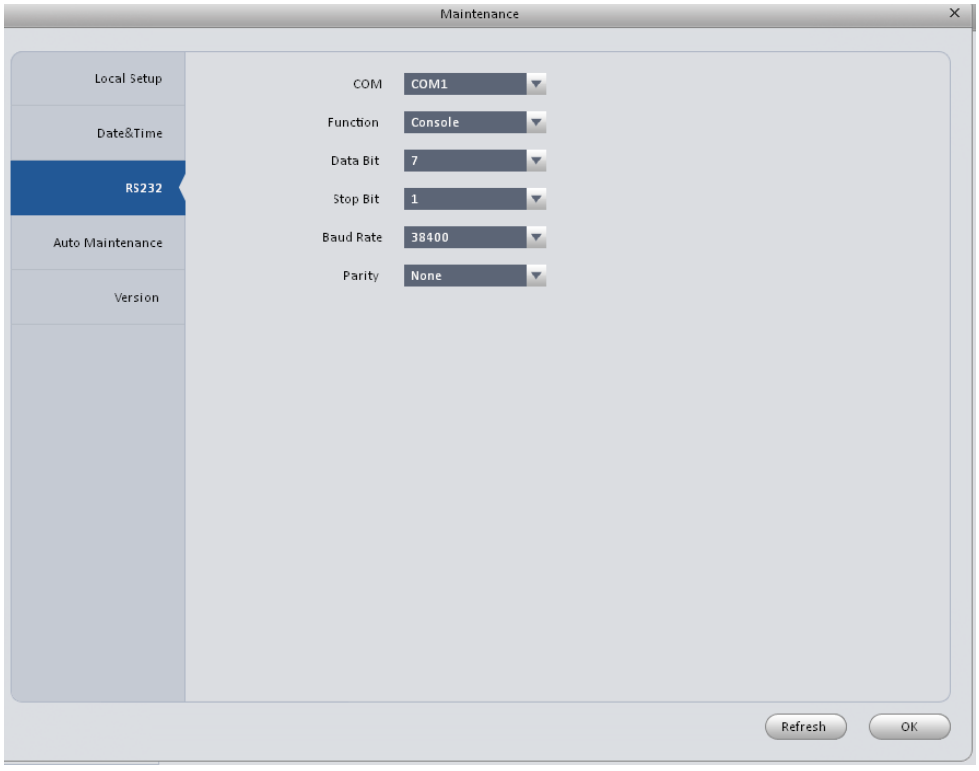


Figure 3-58

Please refer to the following sheet for detailed information.

Parameter	Function
COM	You can select from the dropdown list.
Function	There are various devices for you to select. ● 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.
Baud Rate	Default setup is 115200.
Data Bit	Default setup is 8.
Stop bit	Default setup is 1.
Parity	Default setup is none.

3.6.4.2.4 Auto Maintenance

Here you can set auto-reboot time and auto-delete old files setup. You can set to delete the files for the specified days. See Figure 3-59.

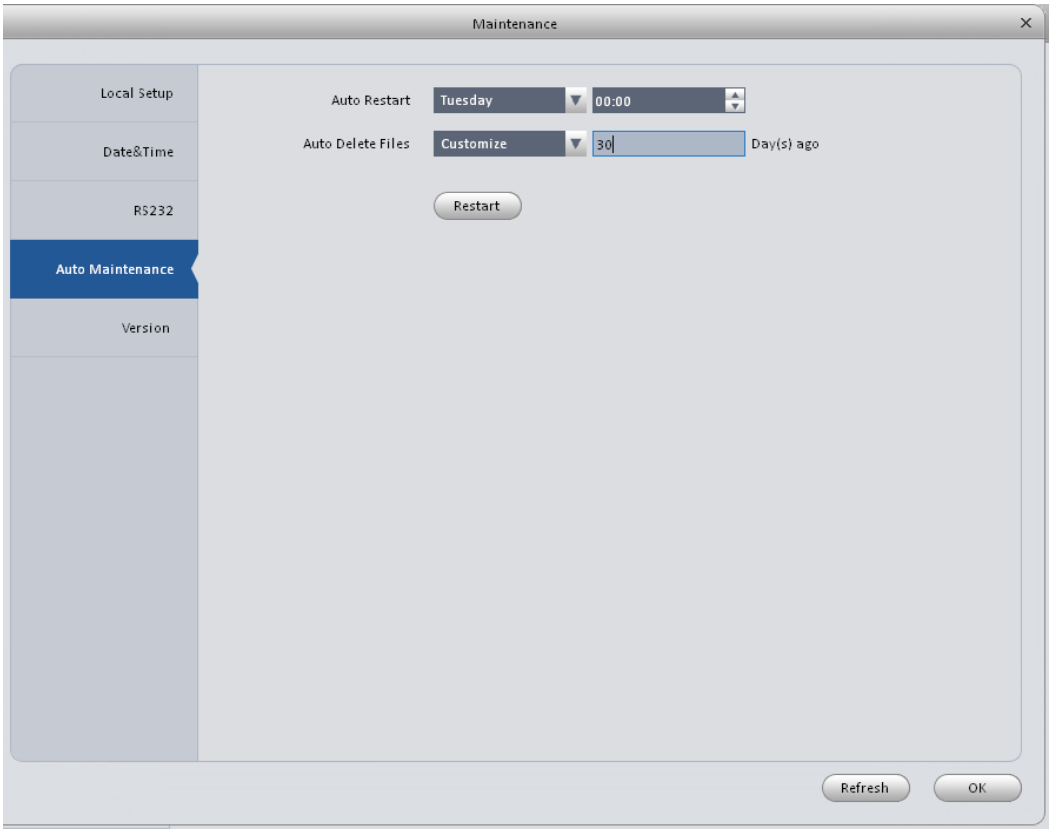


Figure 3-59

3.6.4.2.5 Version

Version interface is shown as below. See Figure 3-60.

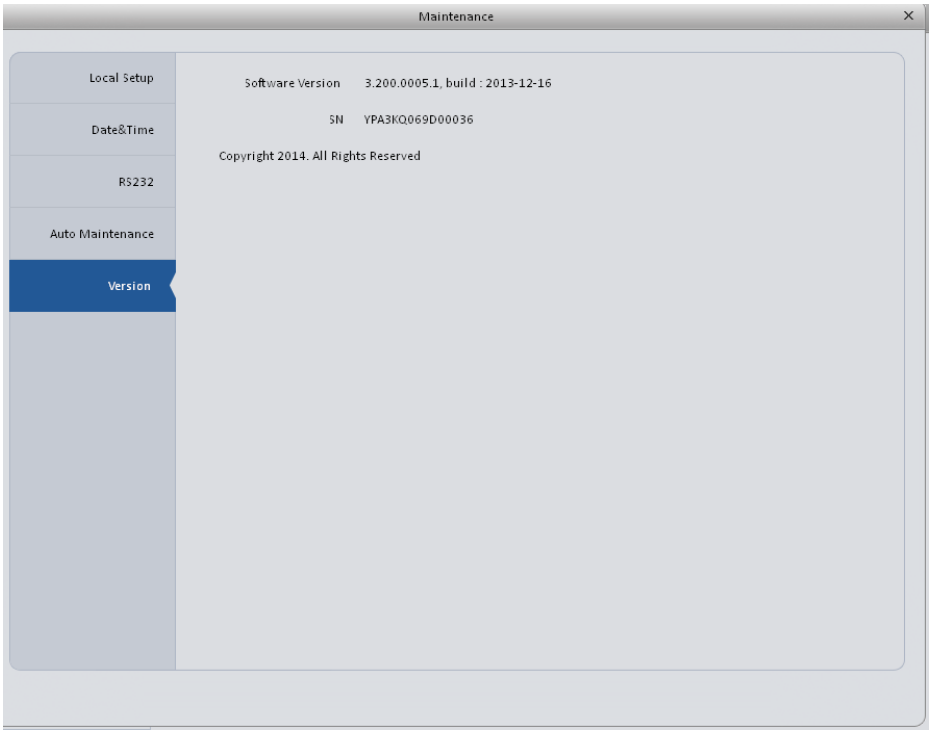


Figure 3-60

3.6.4.3 WEB

Click it to go to the WEB of the device. See Figure 3-61. The following figure is for reference only.

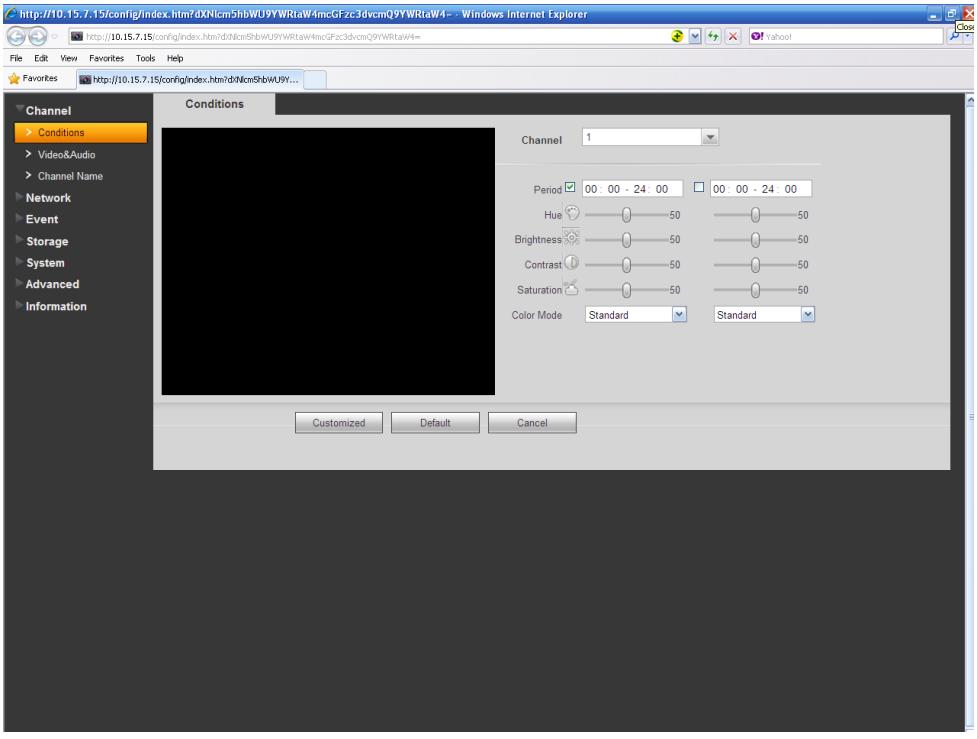


Figure 3-61

3.7 Alarm Setup

3.7.1 Set Alarm Scheme

You can follow the steps listed below to set an alarm scheme.

1) Click the icon in the Settings pane, you can go to alarm configuration interface. See Figure 3-62.

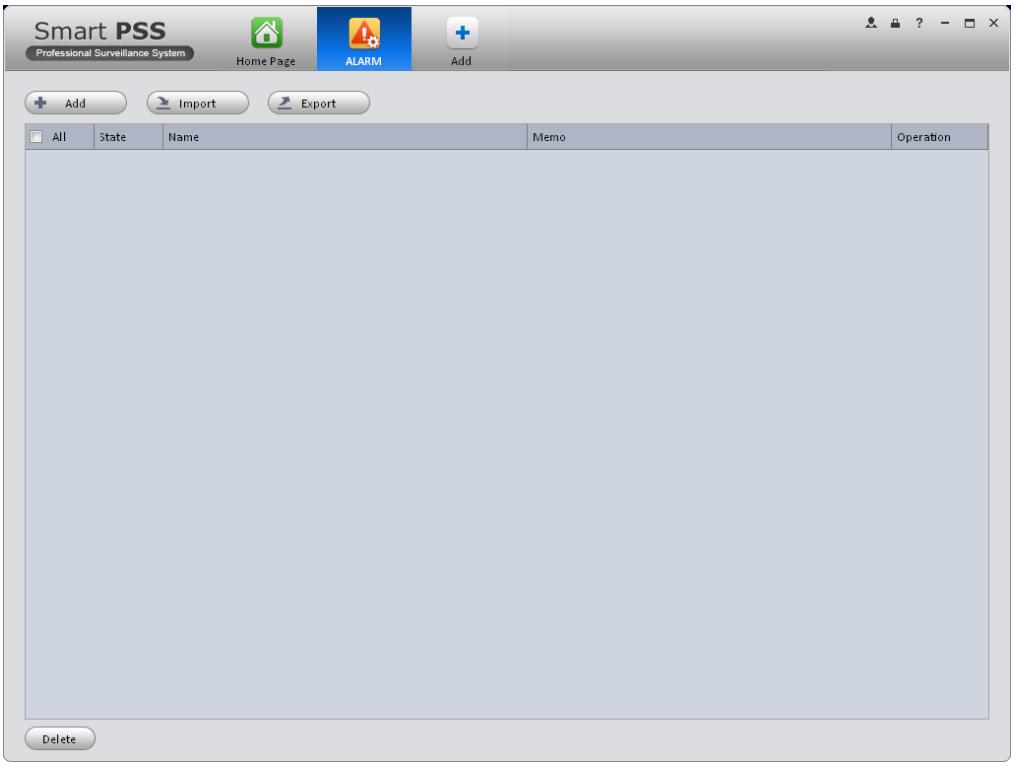
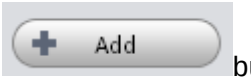


Figure 3-62

2) Set alarm sources.

a) Click  button in Figure 3-62 , system goes to alarm sources setup interface. See Figure 3-63.

b) Here you can input a scheme name and some reference information. select the alarm type from the dropdown list.

c) Check the box to select a channel you want to set alarm scheme on the left pane; you can add it to the list on the right pane.

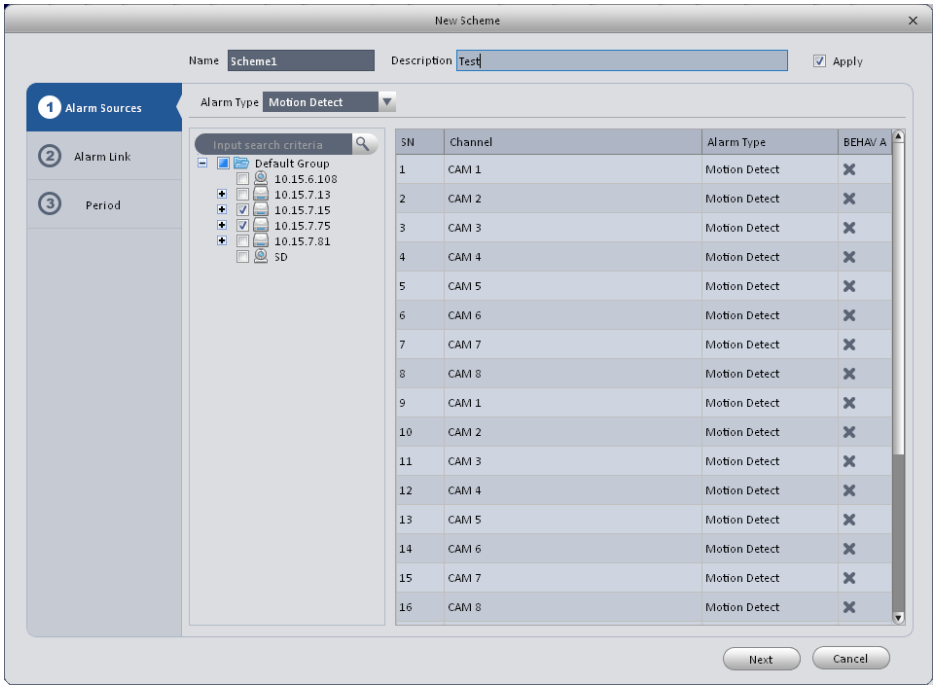


Figure 3-63

d) Click Alarm Link on the left pane or click next button in Figure 3-63 , you can go to the following interface. Please check the trigger channel in Figure 3-64 and alarm output channel, stay time and etc in Figure 3-65.

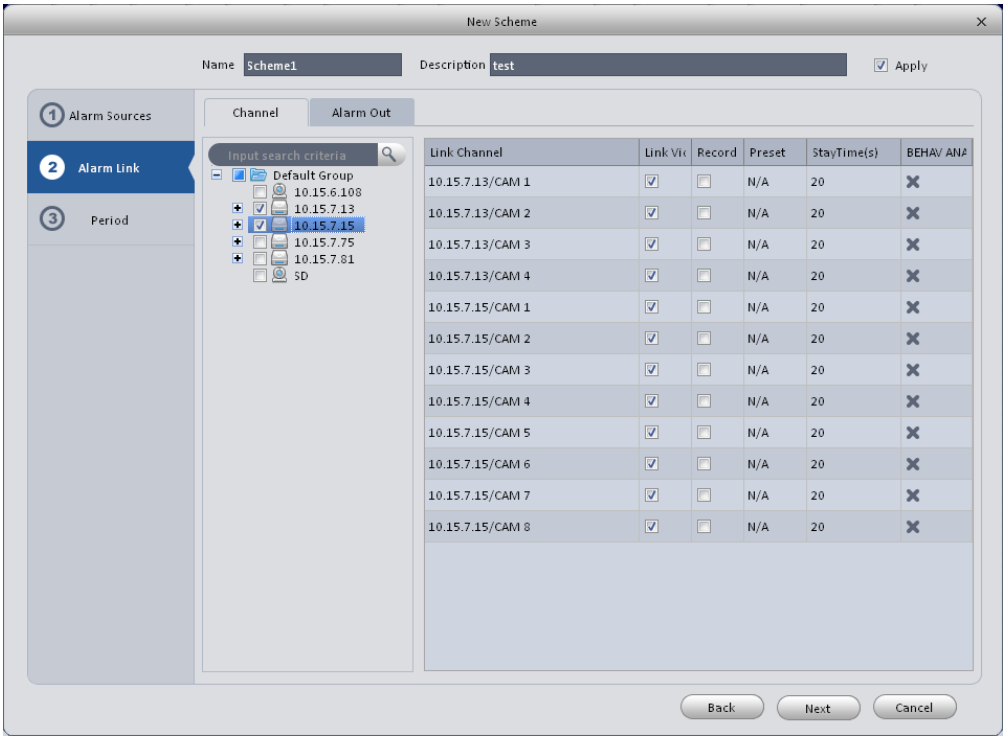


Figure 3-64

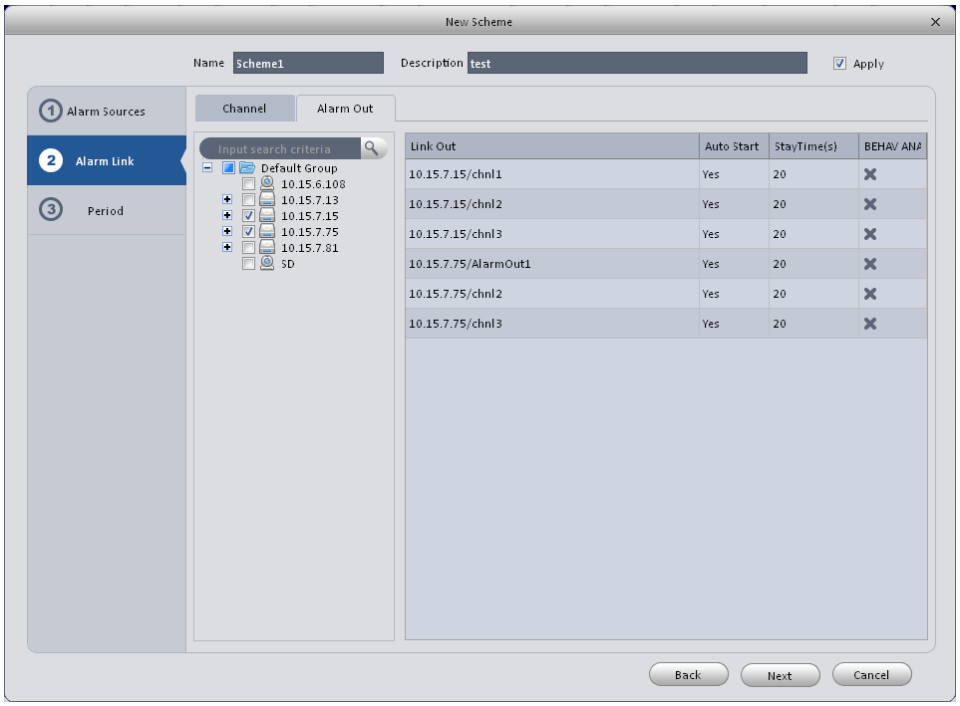


Figure 3-65

e) Click Period button on the left pane or click next button in Figure 3-64, you can go to the following interface. See Figure 3-66.

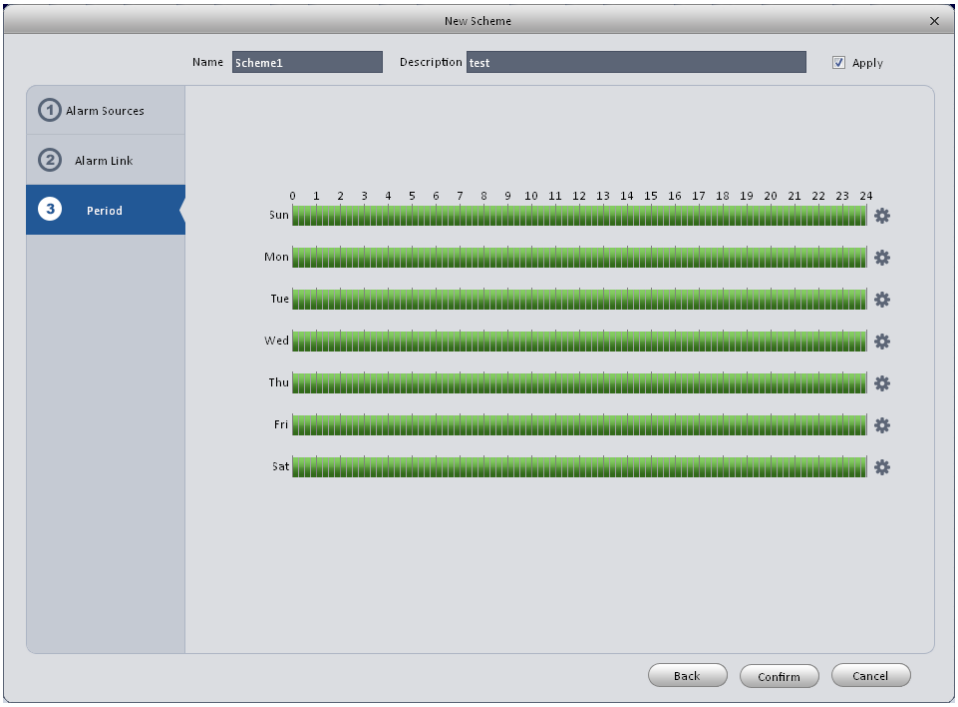


Figure 3-66

Click after a date to set alarm activation period. There are six periods in one day. See Figure 3-67. Click OK button to exit.

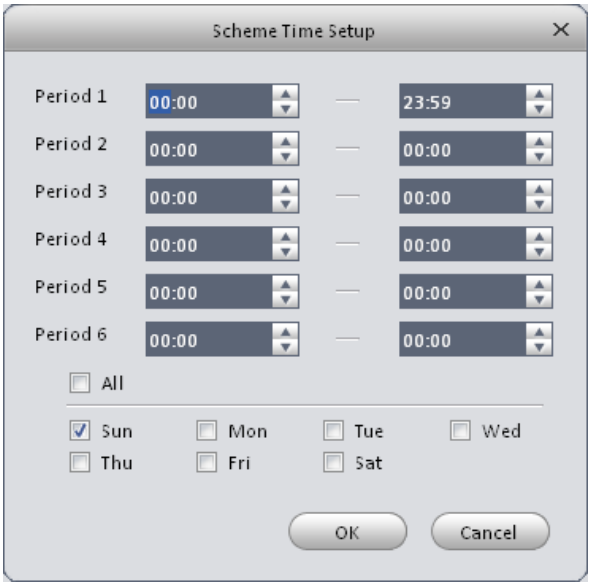


Figure 3-67

f) Click OK button, you can view the scheme information on the alarm setup interface. See Figure 3-68.

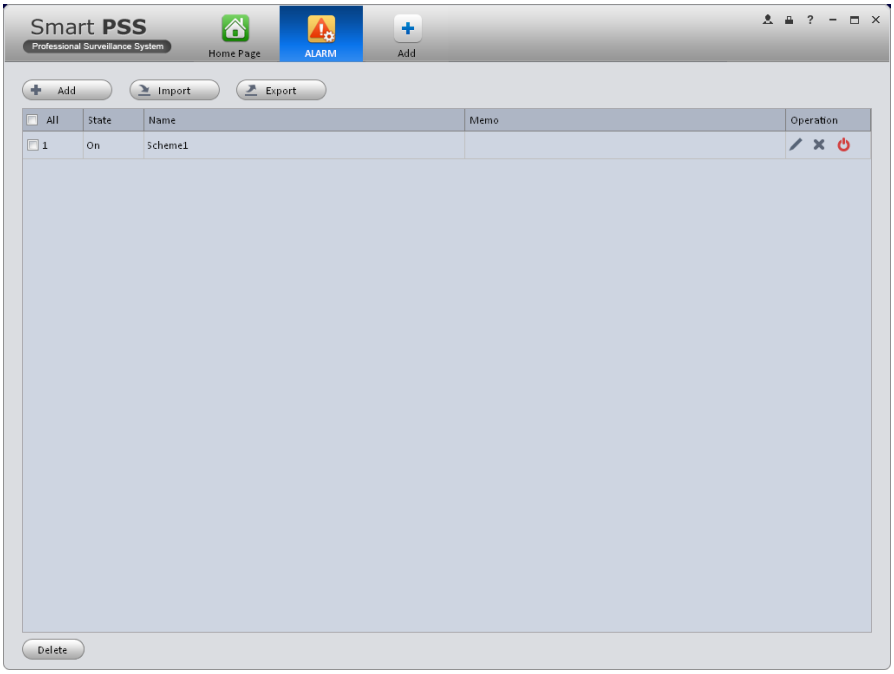


Figure 3-68

3.7.2 Enable/Disable/Export Scheme

After you added a scheme, you can view the following contents for operation information.

- : Delete current scheme.
- : Disable current scheme.
- : Enable current scheme.
- Delete: Select one or more scheme(s) and then click this button to delete.

-

: Import scheme information.
-

: Export scheme informaiton.

3.8 TV Wall Configuration

This function allows you to output video to the TV wall. Please follow the steps listed below.

1) Click , system goes to TV wall setup interface. See Figure 3-69.

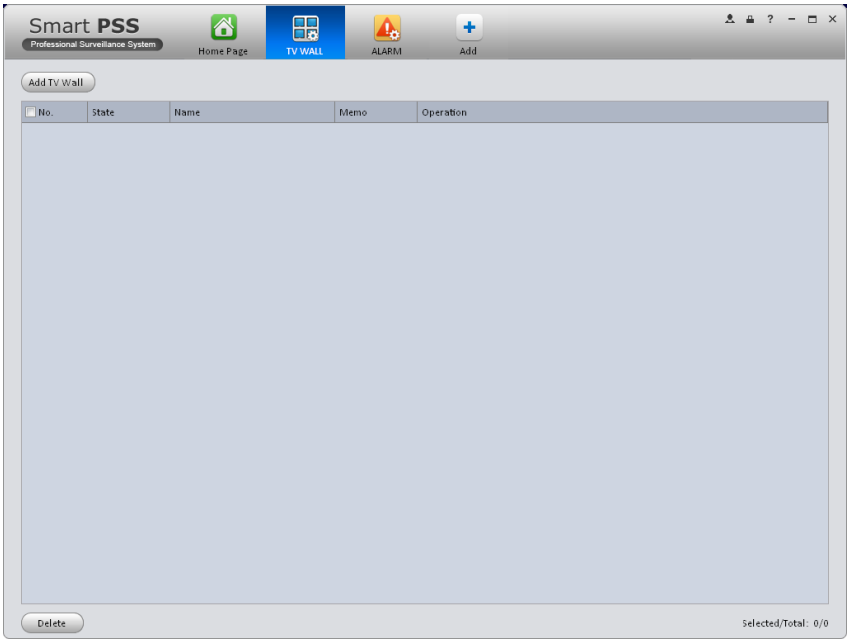


Figure 3-69

2) Click Add TV wall button, you can input TV wall name and description.

3) at the bottom of the interface is for you to set 1*1, 2*2, 3*3 or 4*4 TV wall. Click the screen here to draw TV wall layout. See Figure 3-70.

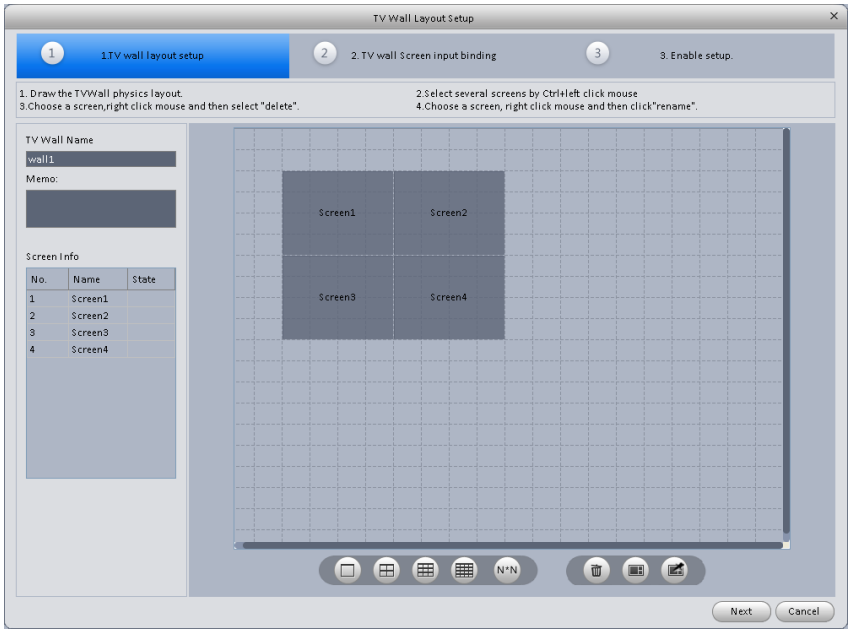


Figure 3-70

Note

- You can click

, input your customized TV wall layout.
- Use Ctrl+left click mouse to select several screens, right click mouse to select splicing or click , you can combine several screens to a splicing screen. Right click mouse, select unbind splicing or click , you can cancel splicing.
- Select a screen and right click to select rename or delete, you can rename screen name or delete a screen. Click , you can delete all screens.

Click Next button or select

, you can go to TV wall input binding interface.

4) Binding decoder channel

Select a decoder channel and then drag it to the corresponding screen of the TV wall. See Figure 3-71.

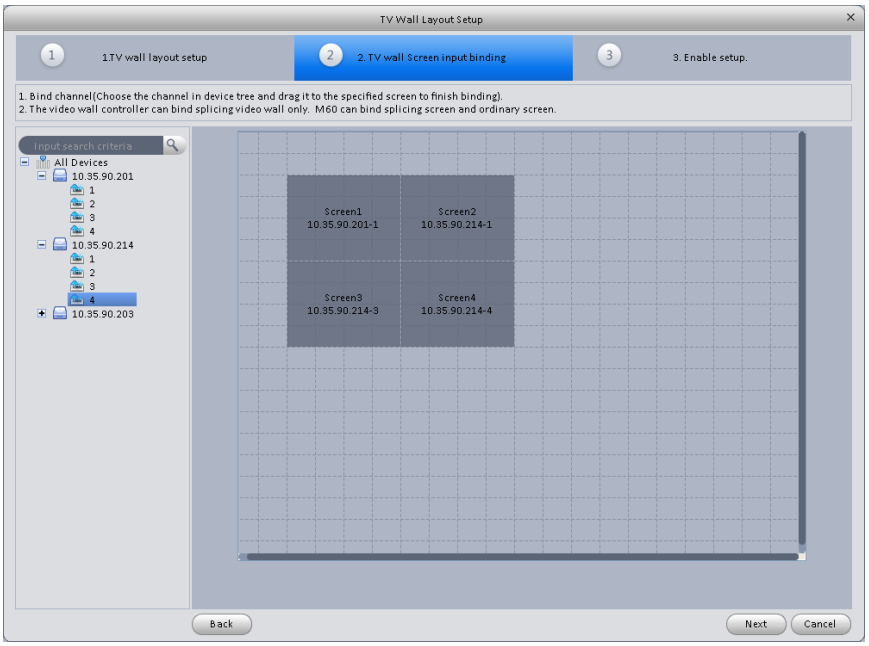


Figure 3-71

Click Next button, or click

, you can go to enable status interface.

5) Check the box to enable setup immediately and then click Finish button, you can see an interface shown as in Figure 3-72.

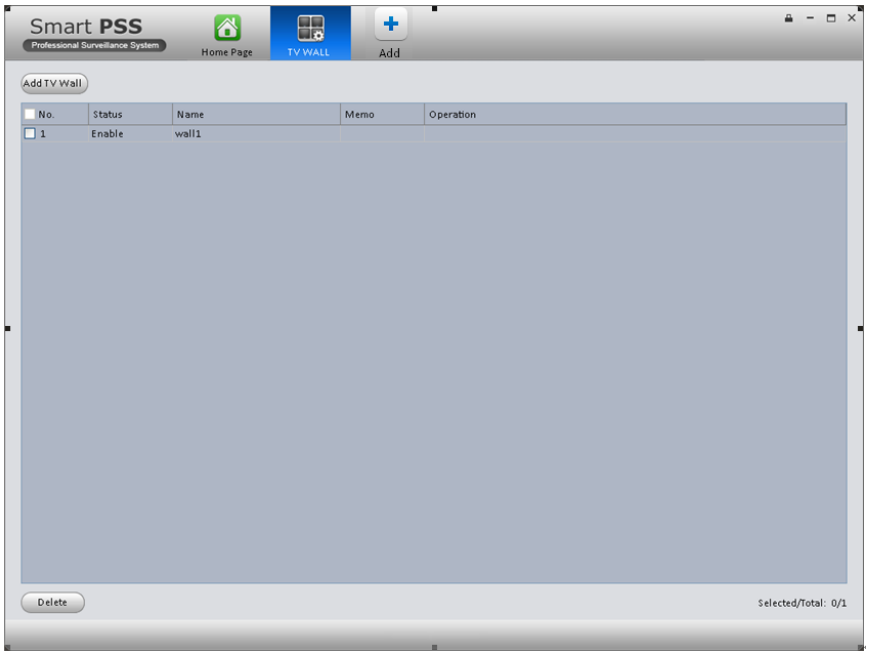


Figure 3-72

In Figure 3-72, double click a TV wall, or select a TV wall and then click Modify button, you can change its setup. You can also click Delete button to remove. On the status column, you can enable or disable the TV wall. Click, you can change TV wall on/off setup.

3.9 Tour &Task

It is to realize monitor tour among each window. Please follow the steps listed below to set.

- Click icon in the Settings pane, you can go to monitor tour interface. See Figure 3-73.

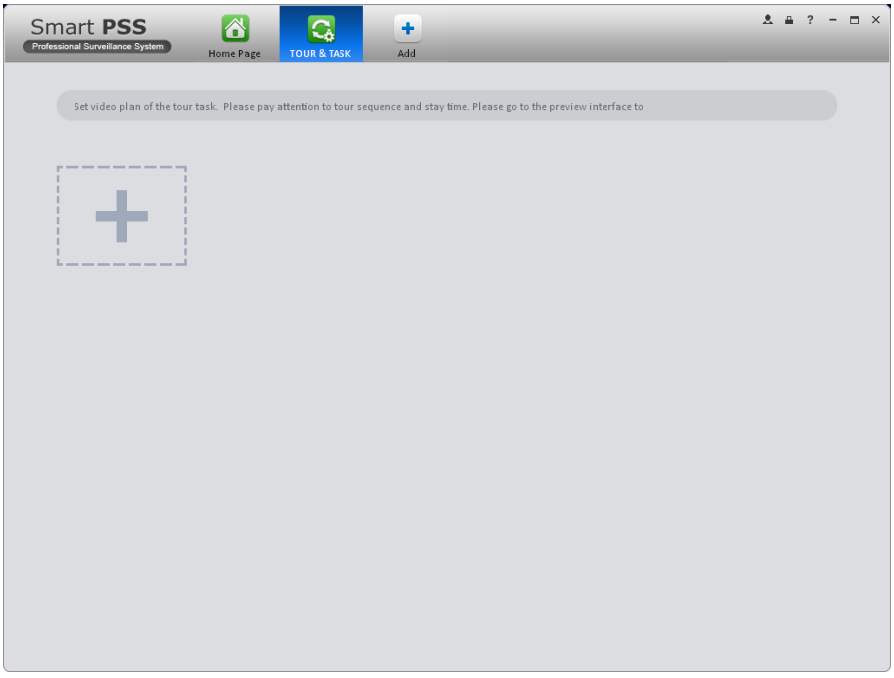


Figure 3-73

- Click button to add task interface. See Figure 3-76.
- Input task name, stay time.
- Click at the bottom of the interface to select window amount.
- Drag channel(s) on the right pane to the windows on the left pane. See Figure 3-74.

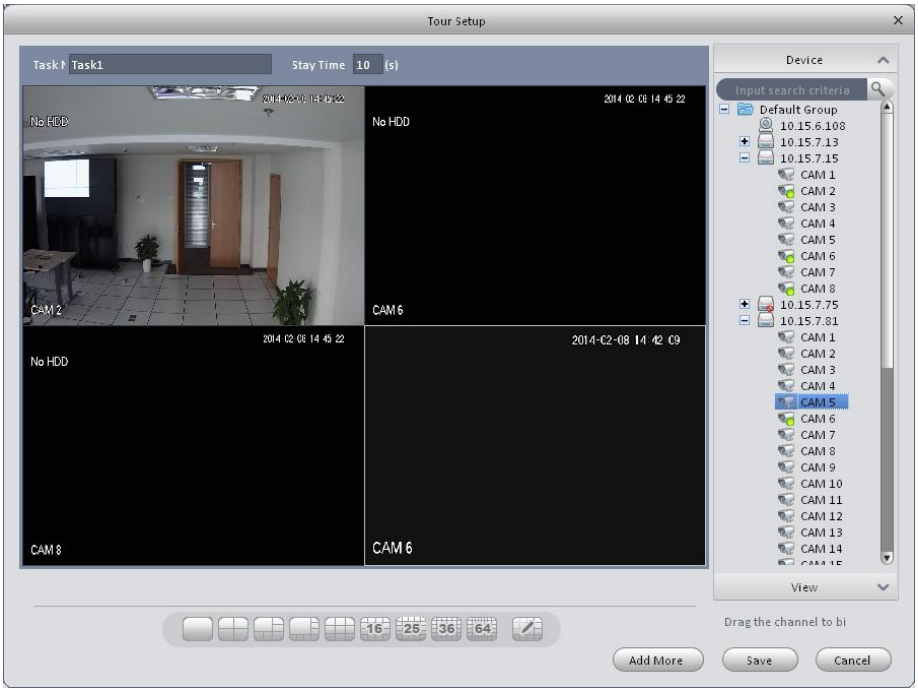


Figure 3-74

Click button to save current setup. See Figure 3-75.

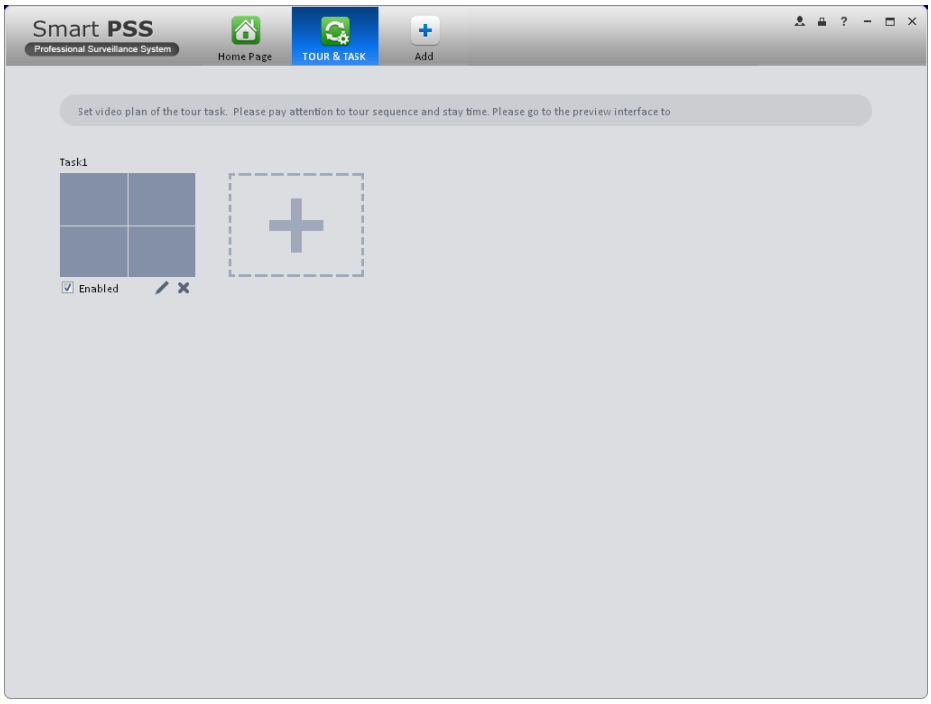


Figure 3-75

Tips

Click

to save current task setup and add more tasks at the same time.

- In Figure 3-75, you can check the enable button to open current scheme. Or you can go to the main interface and then click Preview button ( ) to go to the following interface. See Figure 3-76. Click at the bottom of the interface to enable the scheme.

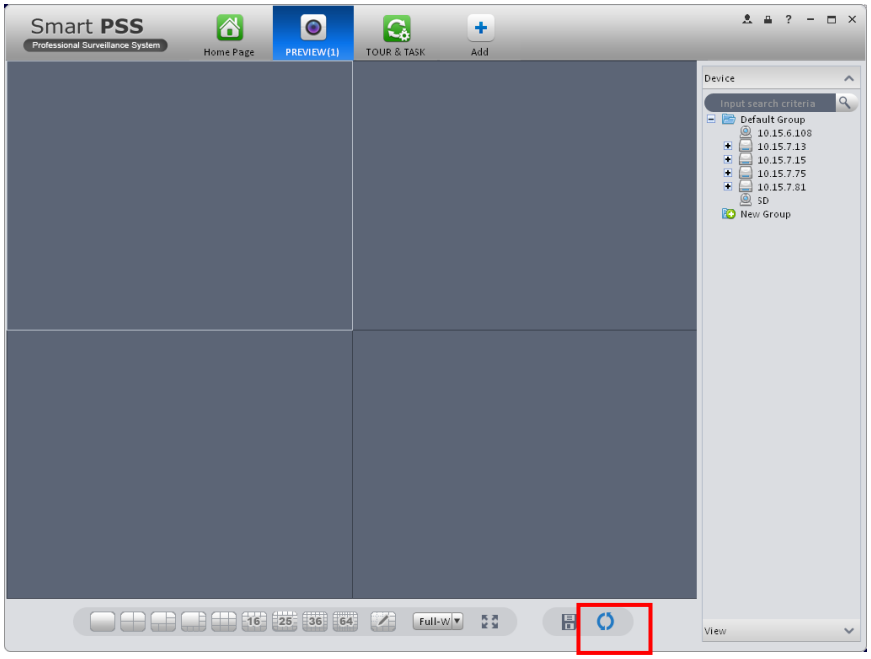


Figure 3-76

3.10 PC-NVR

Important

Before you use this function, please make sure you have installed PC-NVR and the PC-NVR applications are running now!

This function allows you to storage record file on the PC to effectively use wideband. You can add, modify or delete PC-NVR and set PC-NVR parameter. Please follow the steps listed below.

1) Click icon in the Settings pane, you can go the PC-NVR interface. See Figure 3-77.

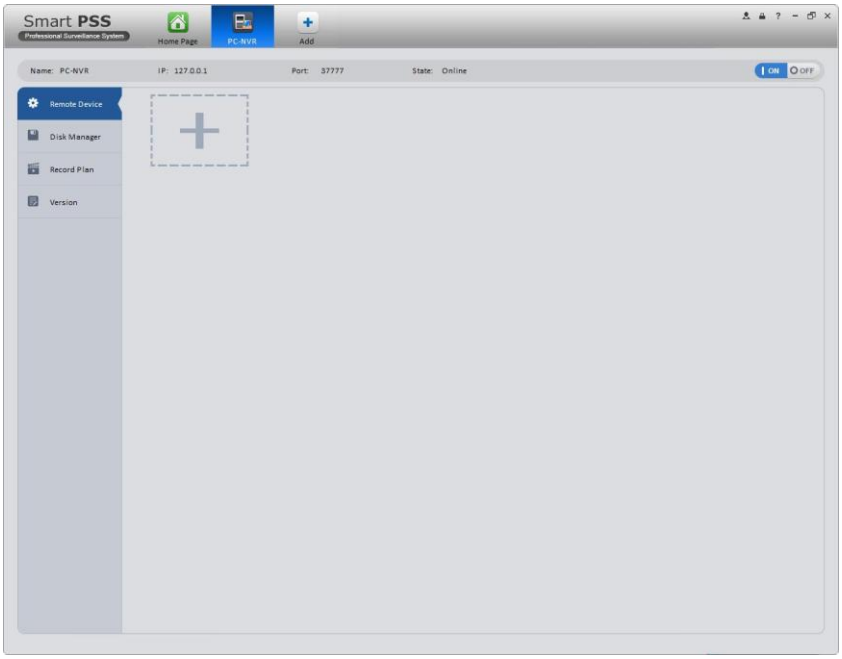


Figure 3-77

2) Remote device

a) Click button, you can see an interface shown as in Figure 3-78. Here you can add channels.

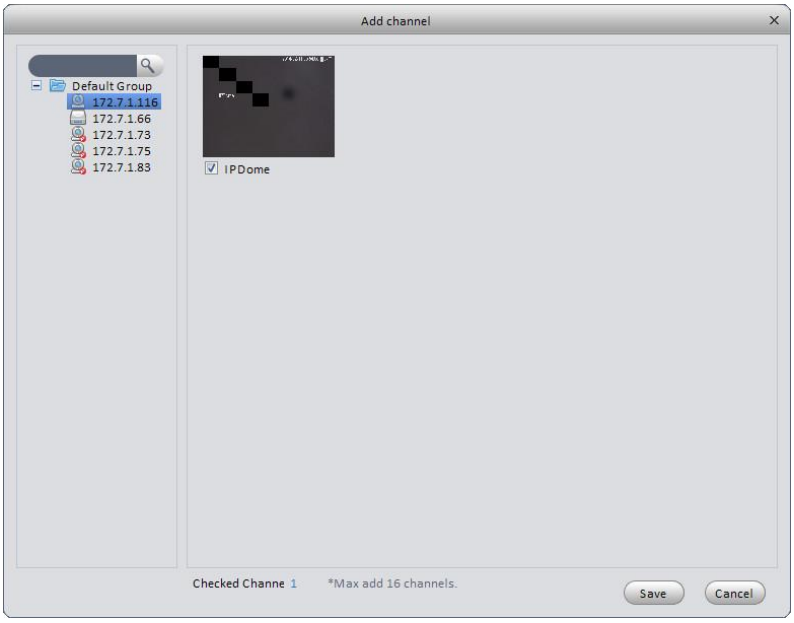


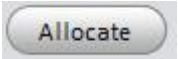
Figure 3-78

b) Please select a device and then check the record channels

c) Click Save button.

3) Disk manager

a) In Figure 3-77, click disk manager button on the left pane, you can go to the setup interface.

b) You can select saved disk and then click 

. See Figure 3-79.

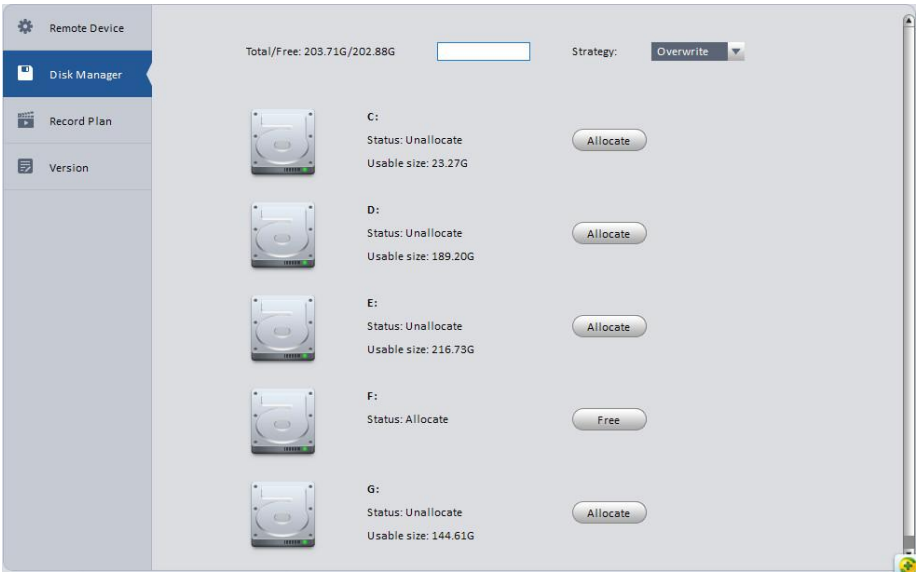


Figure 3-79

4) Add record storage plan

a) In Figure 3-77, click Record Plan button on the left pane. And then select a channel from the dropdown list and then click button . You can go to the following interface. See Figure 3-80.

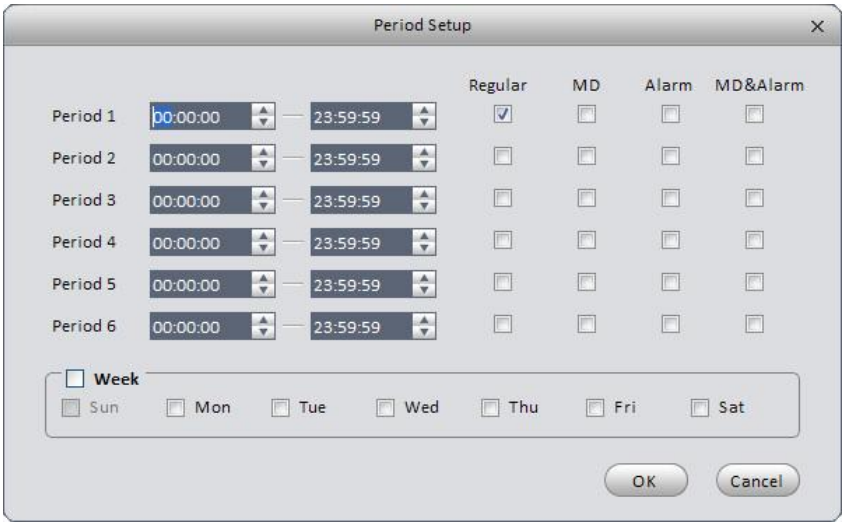


Figure 3-80

b) Please set period information and type.

c) Please set the corresponding time and then click OK button. You can see an interface shown as in Figure 3-81.

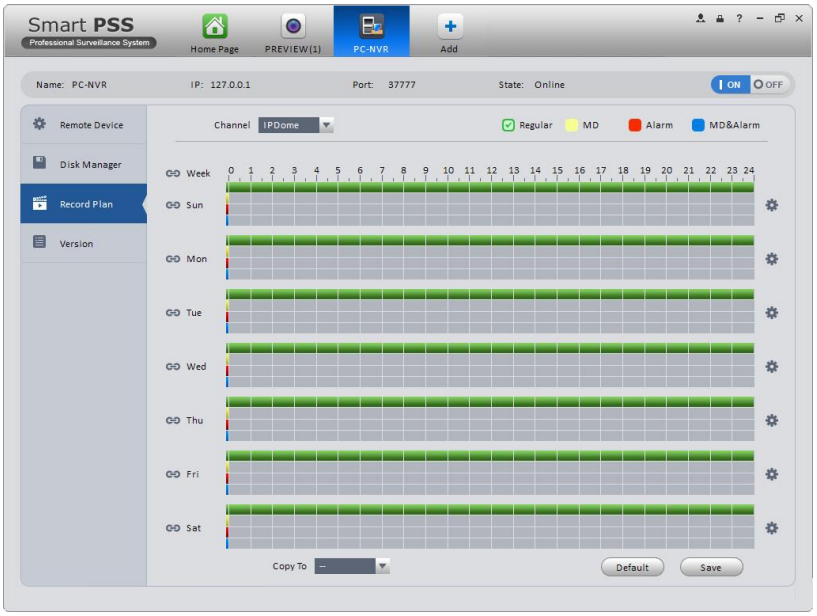


Figure 3-81

Tips

After you complete setup for one channel, you can click Copy button in Figure 3-81 to copy current setup to other channel(s).

4 Basic Operation

4.1 Preview

4.1.1 Real-time Preview

After you set channel group, you can realize real-time preview, record, snap, PTZ operation and etc.

On the main interface, click in the Basic pane, you can go to the preview interface. See Figure 4-1.

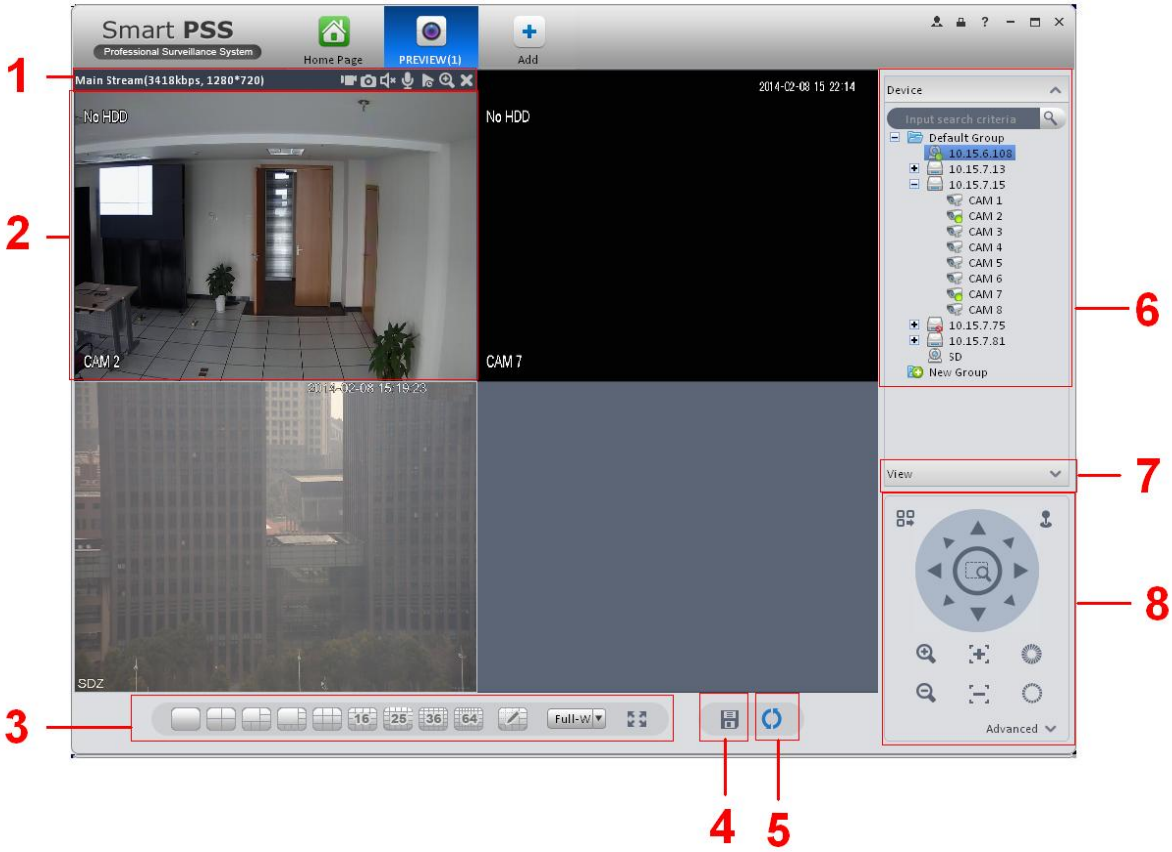
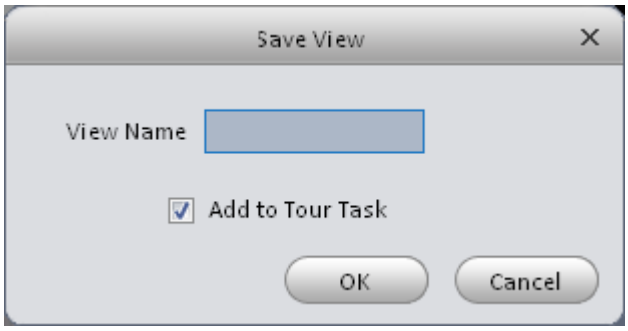
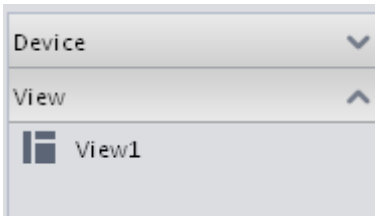


Figure 4-1

Please refer to the following sheet for detailed information.

SN	Item	Function
1	Bit stream information and shortcut operation menu	Please refer to the following contents for detailed information. ●: Enable/disable local record. ●: Snapshot. ●: Enable/disable audio. ●: Enable/disable bidirectional talk. ●: Instant playback. ●: Digital zoom ●: Close current window.
2	Video window	Real-time video
3	Window split mode	●: It is to set 1-wind to 64-window mode. ●: Select a window and then click this button to custmoze its setup. ●: Adjust video scale. ●: Full screen.
4	Save as view	It is to save current preview setup as a view. Click it , you can see an interface shown as below. See Figure 4-2. Please input a view name and then click OK button.  Figure 4-2 After you saved current view setup, you can click the View button at the right pane (Button 7 in Figure 4-1)and then click a name to qucikly go to your favorite preview setup.
5	Enable tour	It is to enable a tour task. Before you use this function please go to chapter 3.9 to add a tour task first.
6	Device list	Display device group and the corresponding channel. Here you can create a new group and drag a device to it. Right click a channel, you can select main stream/sub stream or quickly go to the device setup interface.

SN	Item	Function
7	View	After you click button to save a view (Button 4 in Figure 4-1), you can click this button and then select a name to qucikly go to your favorite preview setup.See Figure 4-3.  Figure 4-3
8	PTZ	It is for PTZ dome camera or fisheye camera series product only. Here you can set camera direction, zoom in, zoom out, iris and etc. Click advanced button to set preset, tour, aux function and so on.

Select a preview window, double click a device channel on the right pane to open the video. Double click a group name; you can open all channels under current group. Right click device channel, you can switch between main stream/extra stream.

Right click preview window, you can see an interface shown as in Figure 4-4.

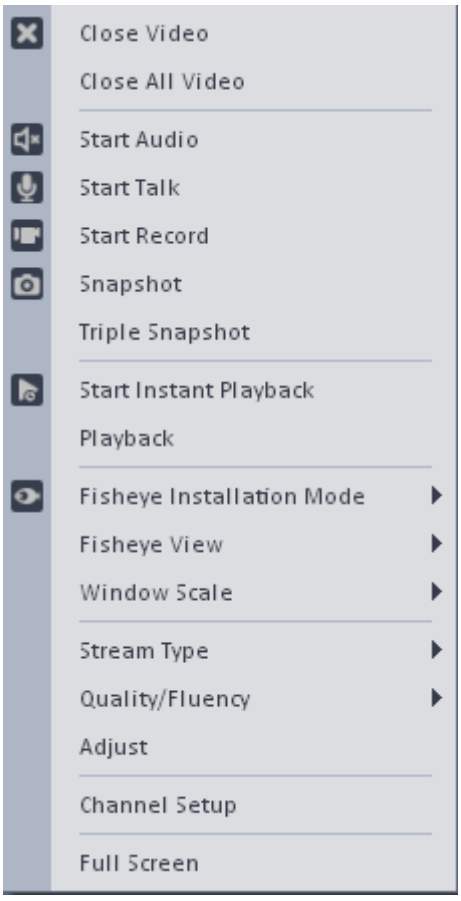


Figure 4-4

Please refer to the following sheet for detailed information.

Item	Function
Close video	Click it to close current window.
Close all video	Click it to close all windows.
Start audio	Click it to enable audio function.
Start talk	Click it to enable bidirectional talk function.
Start record	Save audio/video of current window to a record file.
Snapshot	Snapshot current window. Click it once to save one picture.
Triple Snapshot	Snapshot current window. Click it once to save three pictures by default.
Start instant playback	It is to enable instant playback in current window.
Playback	Click it to go to the playback interface to playback record of current window.
Fisheye installation mode	It is to adjust fisheye installation mode. It includes: ceiling mount, wall mount and ground mount.
Fisheye view	It is to adjust fisheye view mode.
Window scale	It is to adjust window scale.
Stream type	Switch between main stream/sub stream
Quality/Fluency	You can select between video and fluency.
Adjust	Set video brightness, contrast, hue and saturation.
Channel setup	Click it to go to the channel setup interface (chapter 3.6).
Full-screen	Click it to switch to full screen mode. You can double click video window or right click mouse and then select exit full screen to exit.

4.1.2 Record

During the preview process, you can follow the steps listed below to record.

On the preview interface, right click mouse and then select record button.

Or you can click the button at the top of the video window to record.

The icon becomes when device is recording.

You can right click mouse to select stop record or click the at the top of the video window to stop record.

The default record save path is SmartPSS/Record. Here you can go to chapter 3.3 General and then select file setup icon to modify record save path.

4.1.3 Snapshot

During the preview process, you can follow the steps listed below to snapshot.

1) On the preview window, right click mouse and then select snapshot. You can see system pops up snapshot dialogue box. See Figure 4-5.

Tips

You can also click at the top of the video window to snapshot.

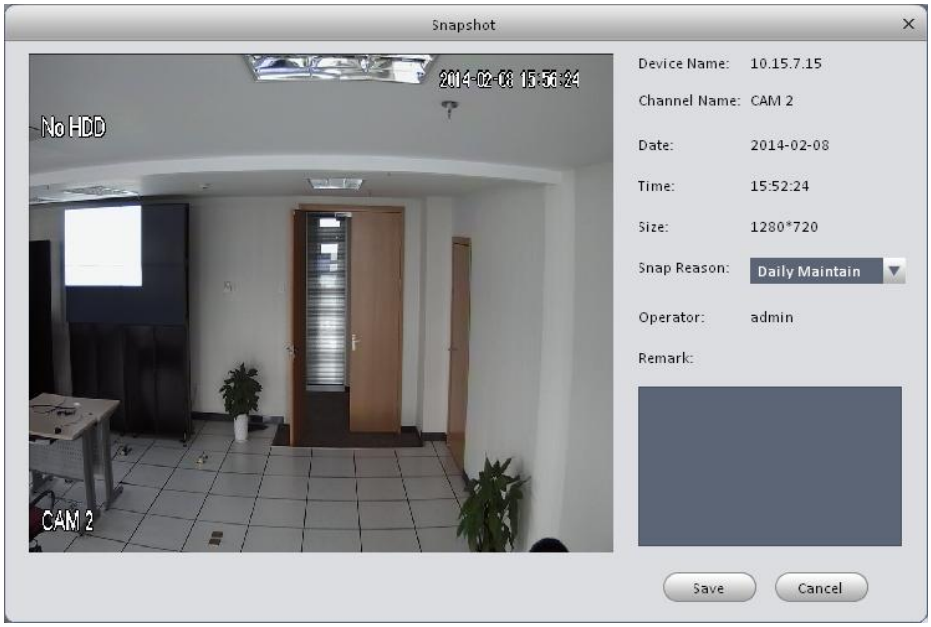


Figure 4-5

2) Please select corresponding parameter from the snapshot reason dropdown list and then input the information in the Remarks column.
3) Click save button, you can see system prompts “Successfully snapshot”.

On the Preview window, right click mouse and then click Triple snapshot, you can snap three pictures at one time. You can see the corresponding dialogue box if the snapshot succeeds. The default picture save path is SmartPSS/capture. Here you can go to chapter 3.3 General and then select file setup icon to modify picture save path.

4.1.4 PTZ

If the device type is PTZ dome camera or fisheye camera, you can click the PTZ button to set. See Figure 4-6.

Figure 4-6

Please refer to the following sheet for detailed information.

Item	Function
PTZ menu	Click to go to the PTZ menu. See Figure 4-7. Figure 4-7
Direction buttons	It is to set PTZ movement direction. There are total 8 directions. Top/bottom/left/right/top left/top right/bottom left/bottom right.
Mouse simulator	Click , you can use your mouse to set PTZ movement direction.
3D positioning	It allows you to zoom in or zoom out the specified zone. Please note, you can only use mouse to control.
Step	It is to control PTZ movement speed. It supports value 1 to value 8.
Zoom	It is to control speed dome to realize zoom function.
Focus	It is to adjust video definition.
Iris	It is to adjust brightness.
Preset	There are 128 presets by default. You can set camera to a specified preset. Use direction keys to move the camera to your desired location and then input preset value. Click Set button, you have set one preset.
Tour	This function allows the camera to move between several presets.
Auto rotate	It is to enable auto rotate function.
Aux 1	It is to set aux positioning.
Scan	It is to set two limits so that the camera can move back and forth.
Pattern	The camera can memorize dome operation such as pan, tilt, and zoom to repeat.

4.1.4.1 Preset

This function allows you to set camera to a specified position.

Preset setup

Please note system supports 128 presets by default.

1) In Figure 4-6, use direction keys to move the camera to your desired location.
2) Select Preset from the dropdown list and then select a preset number (1-128) from the dropdown list. Click to save current setup. Now you can see an interface shown as in Figure 4-8.

Figure 4-8

Call preset

In Figure 4-6, select Preset from the dropdown list. Select a value from the dropdown list and then click Goto button , you can call a preset.

4.1.4.2 Tour

This function allows camera to go between several presets.

Important

Before you use this function, please set at least two presets.

Tour setup

1) In Figure 4-6, select Tour from the dropdown list and then click button.
2) System pops up the following dialogue box. See Figure 4-9.

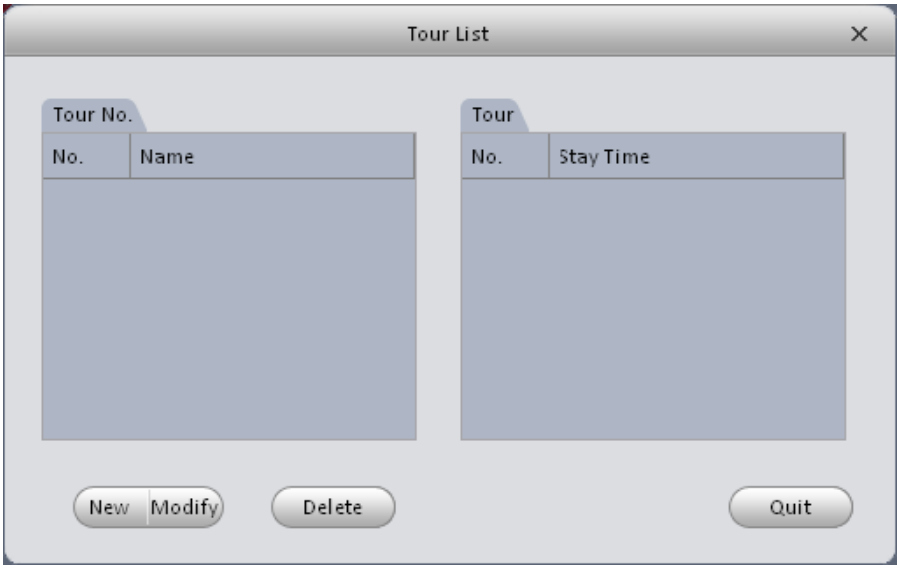


Figure 4-9

3) Click New button, you can see the following interface. See Figure 4-10.

4) Input tour number/tour name/stay time and then select preset number from the dropdown list.
5) Click Add button to add one preset to the tour. Select another preset number from the dropdown list and then click Add button again to add more preset to the tour.
6) Click OK button to complete the tour setup.

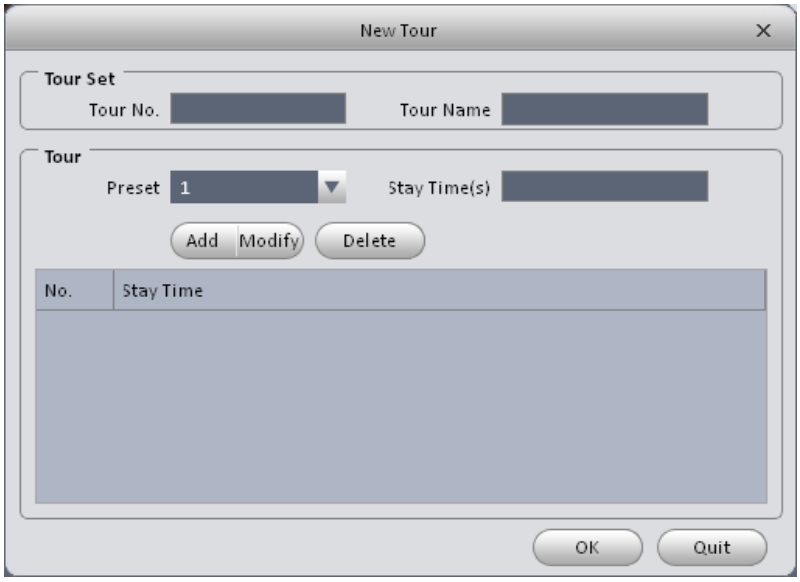


Figure 4-10

Now you can see an interface shown as in Figure 4-11.

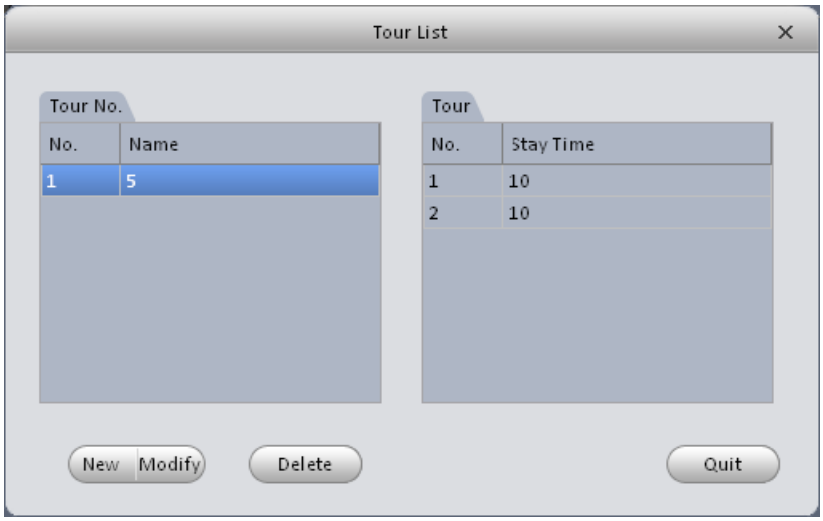


Figure 4-11

Click Quit button to exit.

Call tour

In Figure 4-6, select tour from the dropdown list. Select corresponding tour value from the dropdown list and then click button, you can call it.

4.2 Playback

After you recorded a file, you can go to this interface to playback.

On the main interface, click in the Basic pane, you can go to the playback interface. See Figure 4-12.

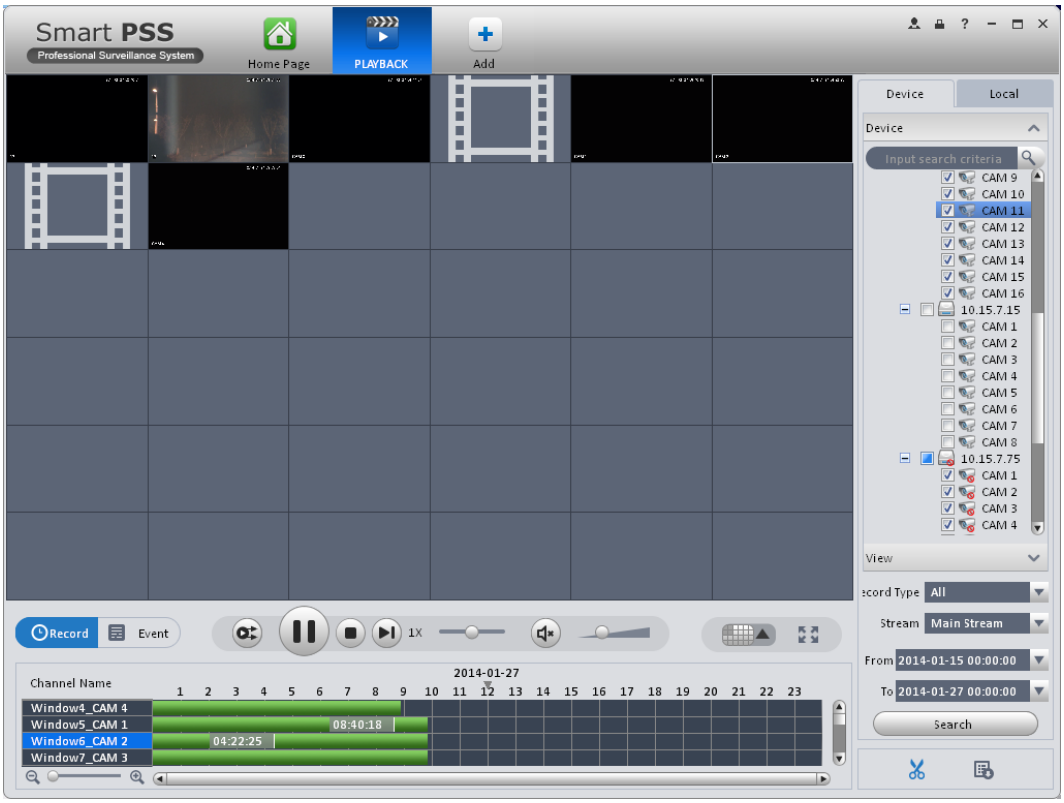


Figure 4-12

4.2.1 Playback Device Record

Please follow the steps listed below to search the record you want and then playback.

1) In Figure 4-12, click Device button on the right pane.
2) Check a channel (or some channels) on the device list on the top right pane.
3) Select record type, stream type and record start time and end time.
4) Click

on the left bottom to search. You can see corresponding date is green if there is a record on current data. You can see the corresponding dialogue box if there is no record.
5) Now you click to playback window. See Figure 4-13.

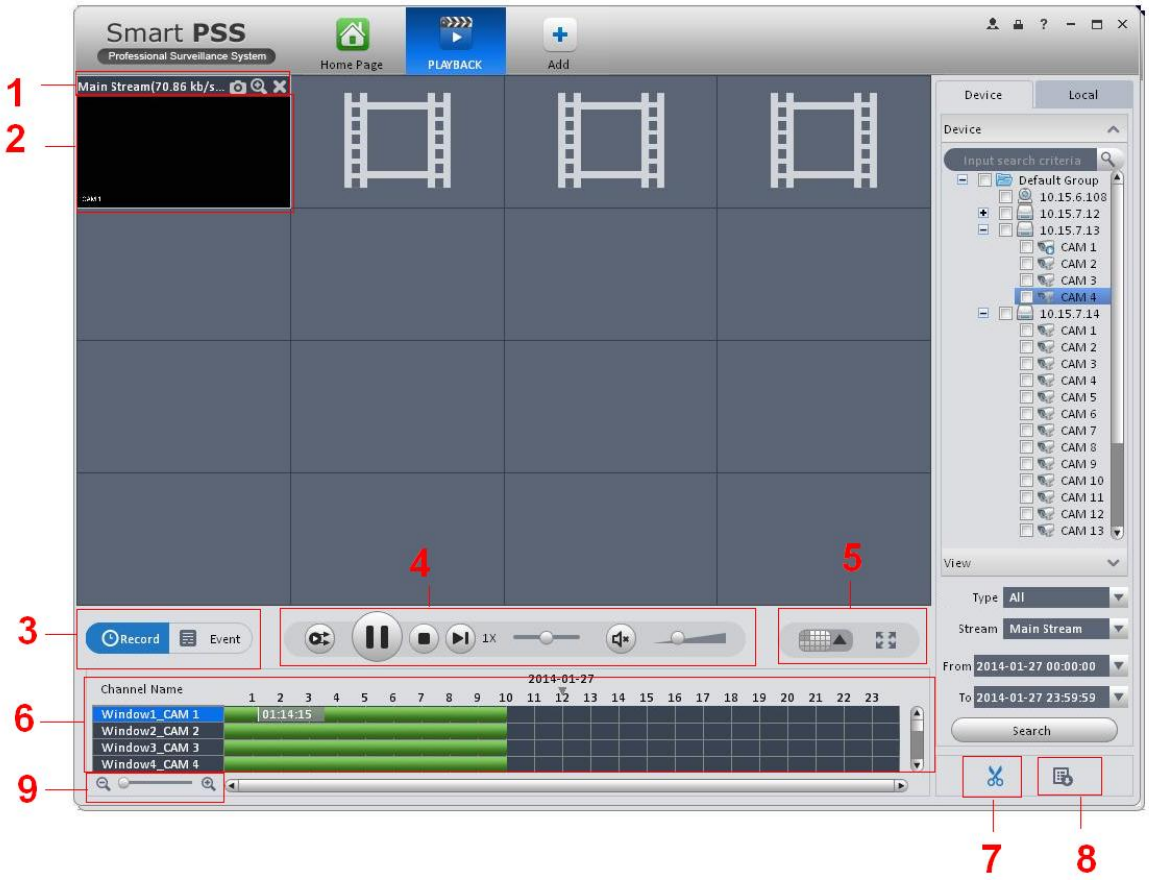


Figure 4-13

Please refer to the following sheet for detailed information.

SN	Item	Function
1	Shortcut operation column	There are shortcut operations to download record file and snapshot. ●: Snapshot. ●: Zoom in window ●: Close current window.
2	Playback window	Playback record
3	Mode	There are two playback mode: by time/by event.

SN	Item	Function
4	Playback tool bar	It is to control the playback process, audio and etc： ● ：Window sync operation button. When this function is enabled, the operation of the playback bar is for all windows. When it is in status, it is for current selected window only. ● ：It is to switch playback and pause. ● ：Stop playback. ● ：Forward. ● ：It is to control the playback speed. ● ：It is to adjust volume.
5	Window display mode setup	It is to set window split mode. The value ranges from 1-window to 36-window. ● : Select a window and then click this button to realize customized setup. ● : Full screen.
6	Playback process bar	It is the playback time line.
7	Time clip	It is to edit the time line to download the specified records.
8	Download process	It is to download the records of the specified period.
9	Time bar control	It is to zoom in /zoom out time line.

4.2.2 Playback Local Record

Please follow the steps listed below to search the record you want and then playback.

6) In Figure 4-12, click Local button on the right pane.
7) Check a channel (or some channels) on the device list on the top right pane.
8) Select record type, stream type and record start time and end time.
9) Click

on the left bottom to search. You can see corresponding date is green if there is a record on current data. You can see the corresponding dialogue box if there is no record.
10) Now you click to playback window. See Figure 4-14.

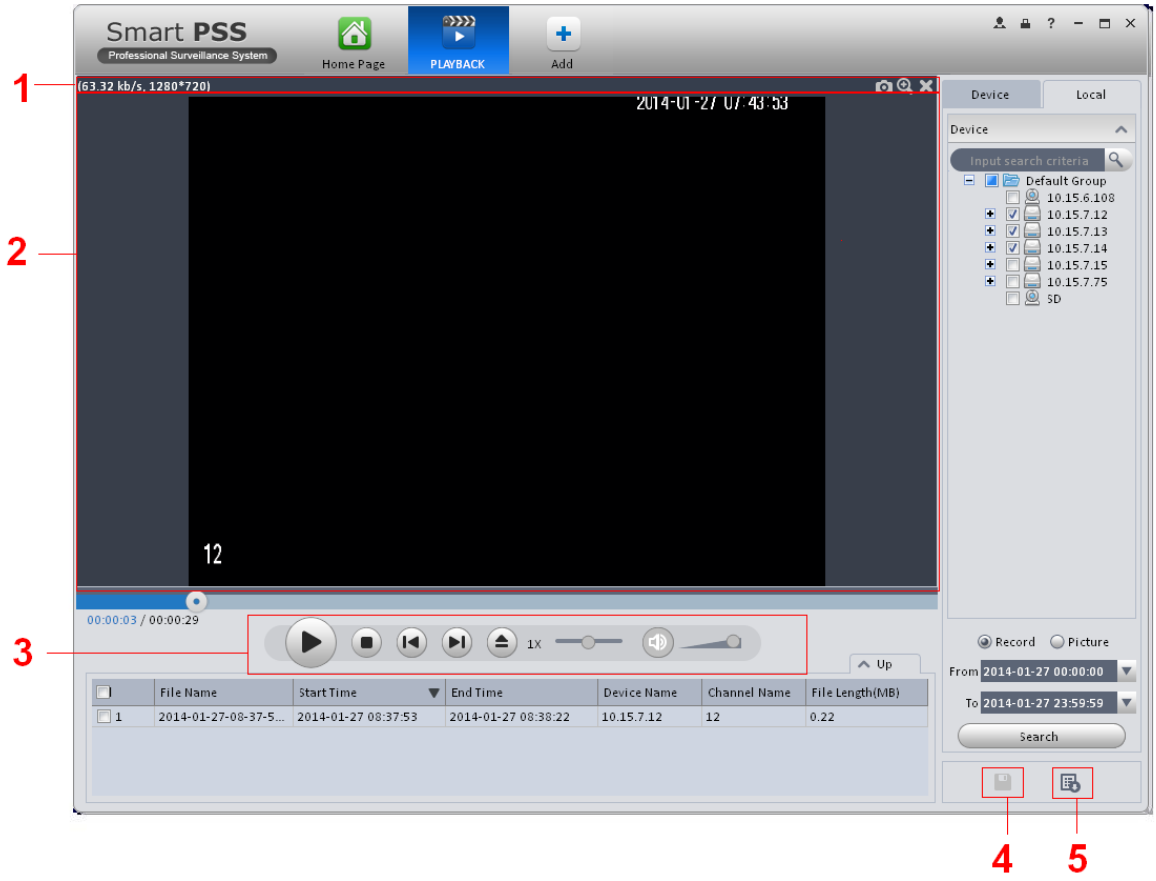


Figure 4-14

Please refer to the following sheet for detailed information.

SN	Item	Function
1	Shortcut operation column	There are shortcut operations to download record file and snapshot. ●: Snapshot. ●: Zoom in window ●: Close current window.
2	Playback window	Playback record

SN	Item	Function
3	Playback tool bar	It is to control the playback process, audio and etc： ● ：Window sync operation button. When this function is enabled, the operation of the playback bar is for all windows. When it is in status, it is for current selected window only. ● ：It is to switch playback and pause. ● ：Stop playback. ● ：Forward. ● ：It is to control the playback speed. ● ：It is to adjust volume.
4	Download manager	Check the playback records and then download.
5	Download process	It is to download the records of the specified period.

4.2.3 Download

There are three ways for you to select download records.

- In Figure 4-13 (Device record interface), select periods on the time line and then click to download records.
- In Figure 4-13 (Device record interface), select record type and then click to download records.
- In Figure 4-14, check the records first and then click to donwload records.

You can see the download interface is shown as in Figure 4-15. Select the corresponding download path and then click OK button to download.

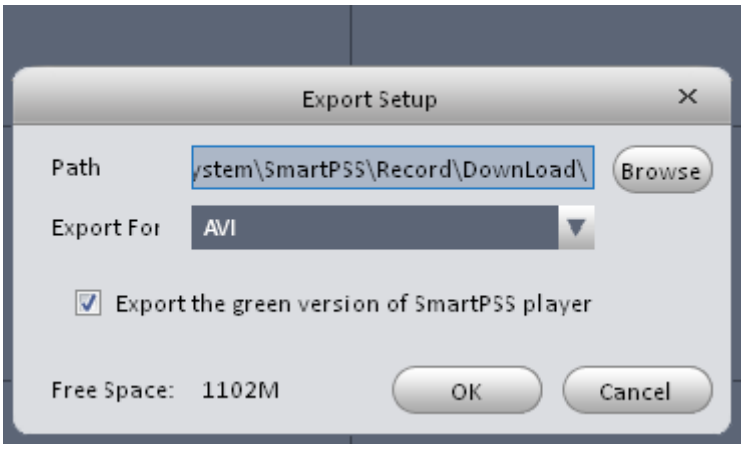


Figure 4-15

4.3 Alarm Manager

If you have set an alarm scheme, you can see the corresponding alarm in the Alarm manager interface. You can refer to chapter 3.7.1 to set an alarm scheme first.

Click icon in the basic pane, you can go to Alarm manager interface. See Figure 4-16.

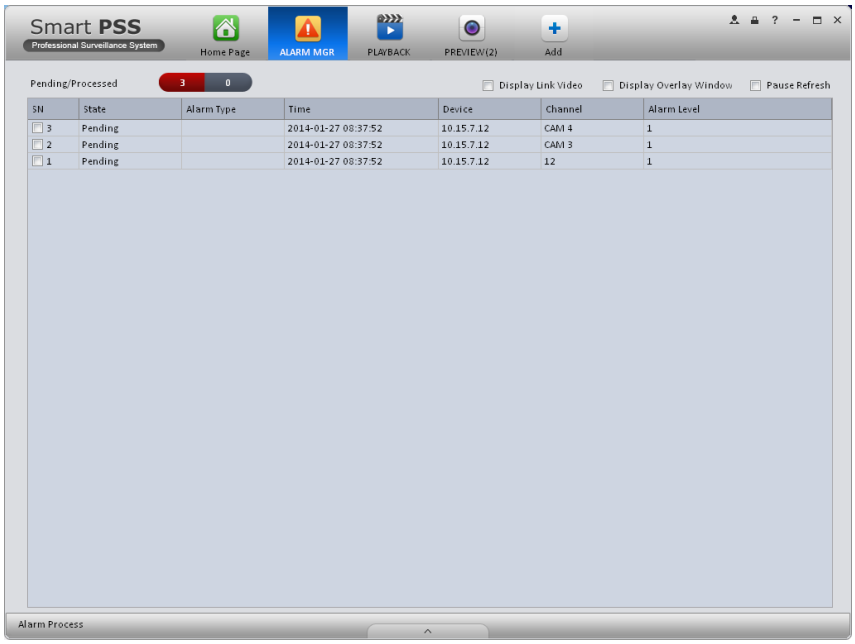


Figure 4-16

If you have set alarm activation video function in your alarm scheme setup (chapter 3.7), you can see system pops up video window when a corresponding alarm occurs. See Figure 4-17.
If you check the box at the bottom of the interface to pause refresh, the new alarm activation video will not overwrite current one. Click Alarm Manager at the right bottom of the interface, system goes to the alarm manager interface for you to view the corresponding alarm record.

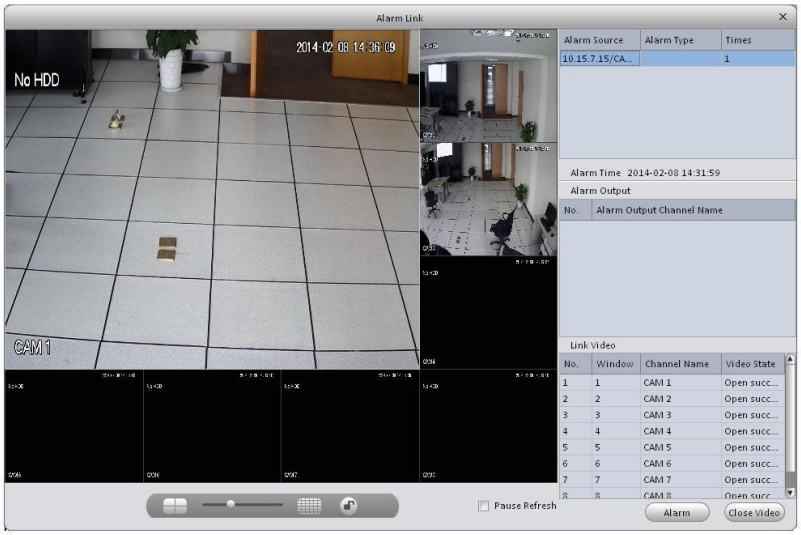


Figure 4-17

4.4 Log

Log interface is shown as in Figure 4-18.

Select start time/end time, and select type from the dropdown list. Click Search button, you can see the log information.

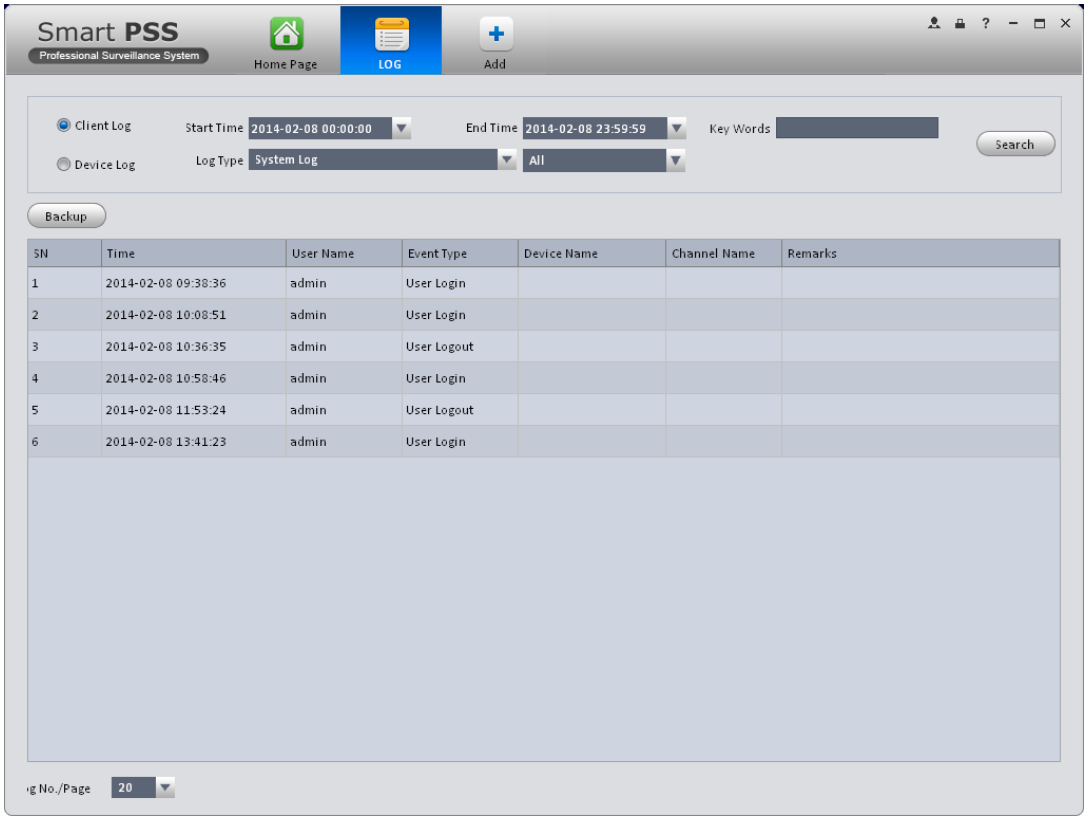


Figure 4-18

5 Extension

5.1 TV Wall

After you set TV wall setup (chapter 3.8), you can output video to the TV wall. You can follow the steps listed below to set.

1) Click icon on the main interface, you can go to the following interface. See Figure 5-1.

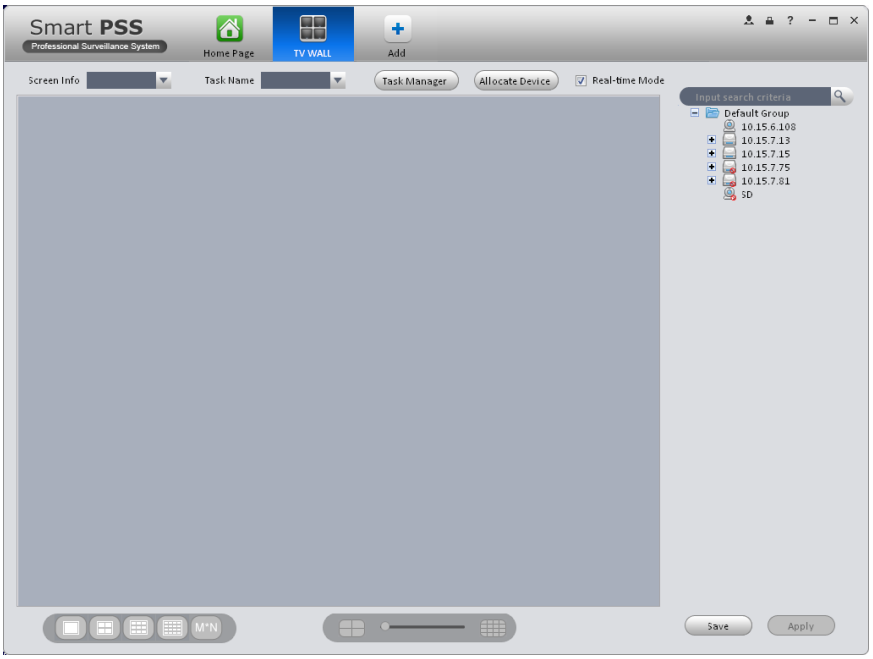


Figure 5-1

2) Select corresponding TV wall from the screen information dropdown list. You can check to select real-time mode if necessary. Once you enable real-time mode, system automatically output the video to the TV wall after you complete the setup. Otherwise, it does not output the video to the TV wall.
3) Drag the channel on the right pane to the corresponding screen and then binding.

Tips

Select one screen and then use the process bar you can set four modes: 1/4/9/16-window. You can see the corresponding dialogue box, if current screen does not support the mode you set here.

4) Click save as task button, you can see system pops up a dialogue box for you to input task name.
5) Please input task name and click Save button.
6) Click Output video.

Please note:

- You can select TV wall task from the task name dropdown list and then click the Output video button to view the video.
- Click task manager, you can view current task status. Or you can select one task and click or to modify or delete current task.

5.2 E-map

Click icon on the main interface, you can go to the e-map interface. You can view the device on the e-map. On the view map interface, you can zoom e-map or open video, but you can not edit it. On the Edit e-map interface, you can edit e-map, add camera and etc.

5.2.1 Add E-map

If it is your first time to use e-map, you can see an interface shown as below. See Figure 5-2.

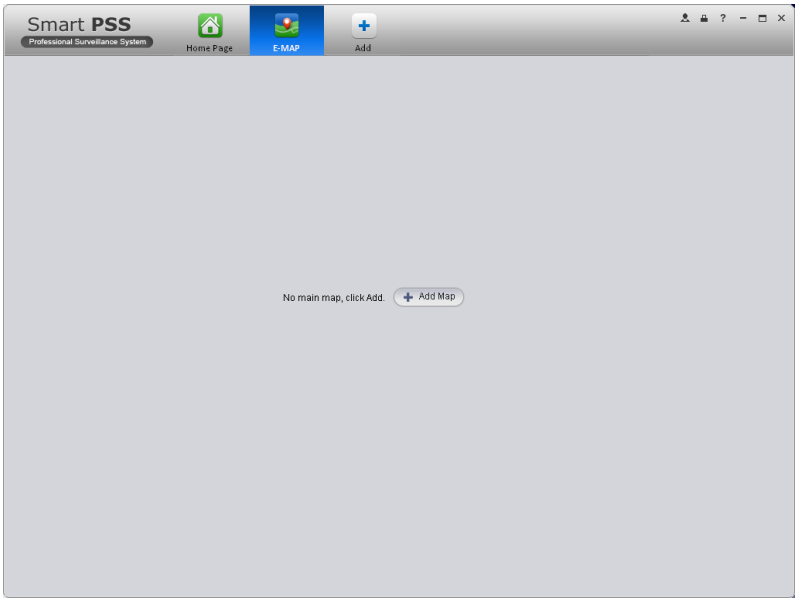


Figure 5-2

Click Add map button, the interface is shown as in Figure 5-3.
Please input e-map name and then select e-map picture. You can input some reference information if necessary.

Figure 5-3

After you added an e-map, the interface is shown as below. See Figure 5-4.

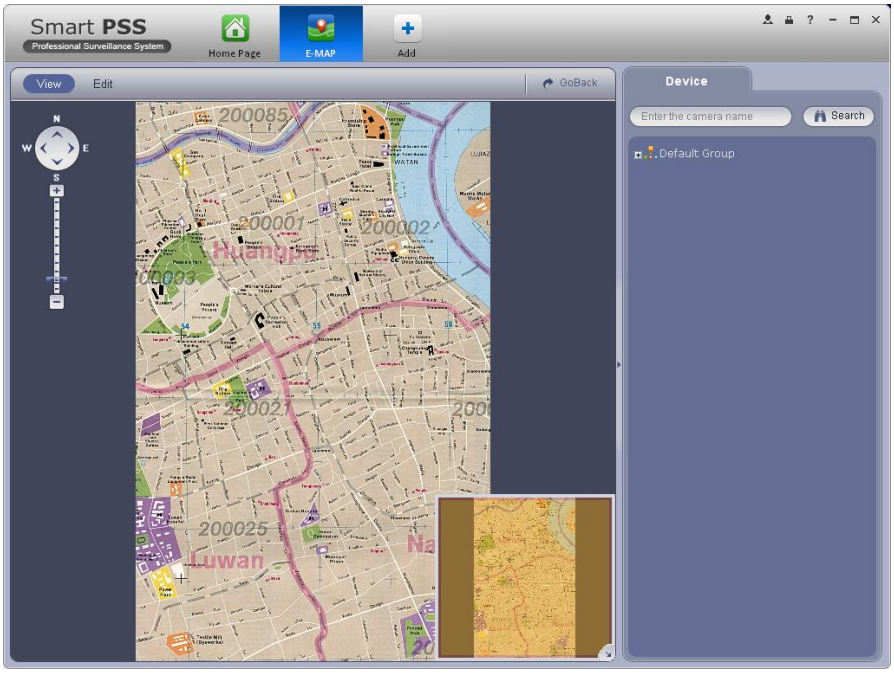


Figure 5-4

5.2.2 Edit E-map

Click Edit, you can go to the following interface. See Figure 5-5.Click Tools, you can edit e-map, delete e-map, delete device, add area, modify area, delete area and etc.
Drag a channel on the right pane to the e-map; you can add it to the e-map.

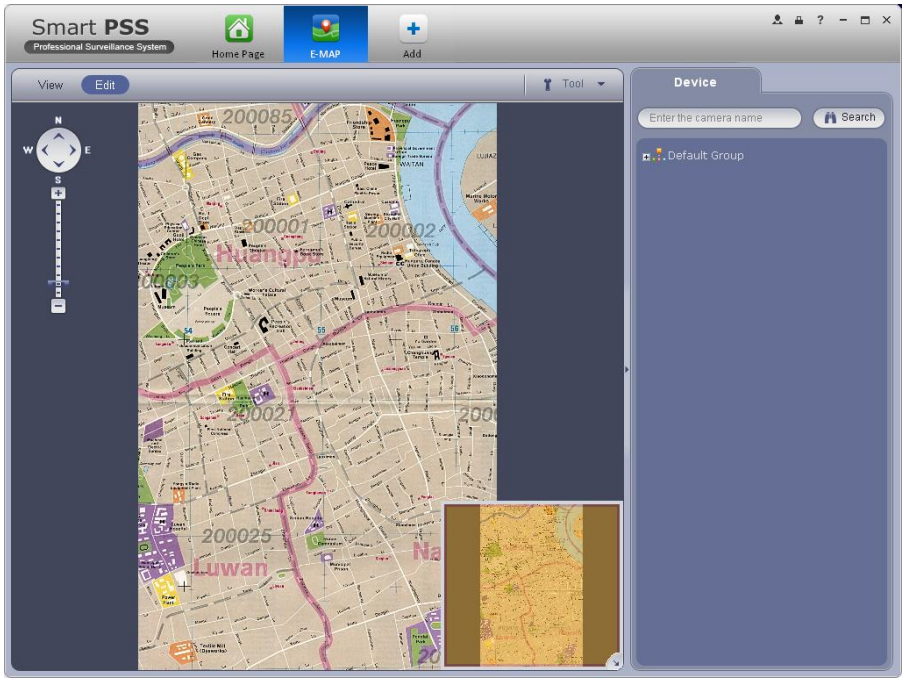


Figure 5-5

Click Tool button, you can see a function bar shown as below. See Figure 5-6.

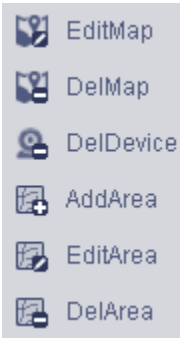


Figure 5-6

Please refer to the following sheet for detailed information.

Item	Function
Modify e-map	It is for you to change e-map name, picture, description
Delete e-map	Delete current e-map.
Delete device	Delete a device from the e-map.
Add area	Add hot zone on the e-map.
Modify area	Change hot zone map name, picture and description.
Delete area	Delete corresponding hot zone.

5.2.3 Preview E-map

After you edited the e-map, you can click View button to preview. Buttons at the left top of the interface can zoom in, zoom out or move e-map. Double click a camera on the e-map, you can view video. See Figure 5-7.

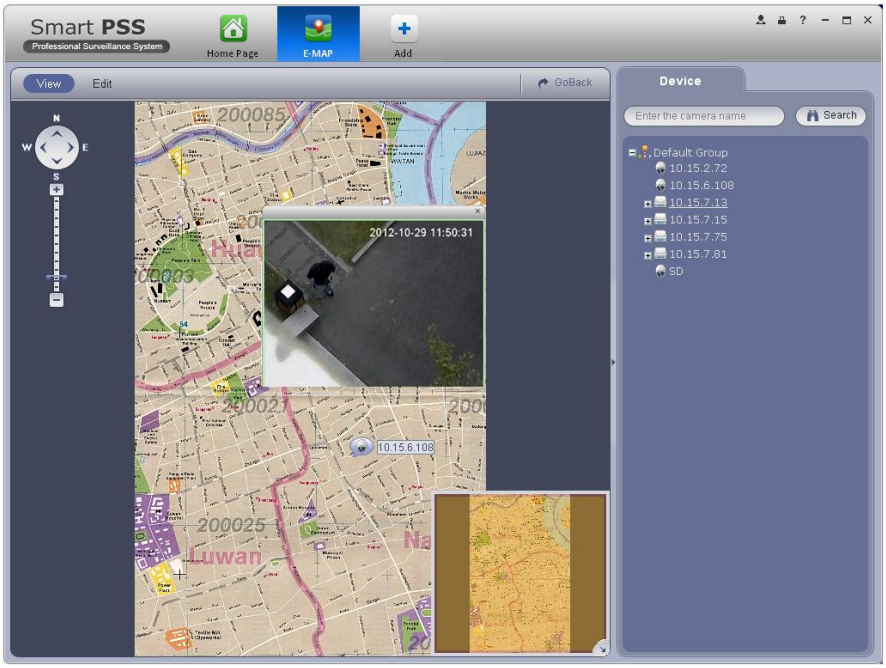


Figure 5-7

5.3 Device Display&Control

The device type supports NVR6000 series product only. Here is for you to set split mode and display channel.

Click icon , you can go to the following interface. Drag a channel on the right pane to the window to bind.

Click the window display mode setup button at the bottom of the interface; you can see the 128-channel of the NVR6000. In Figure 5-8, you can view the 4-split mode. You can click channel range to select corresponding channel.

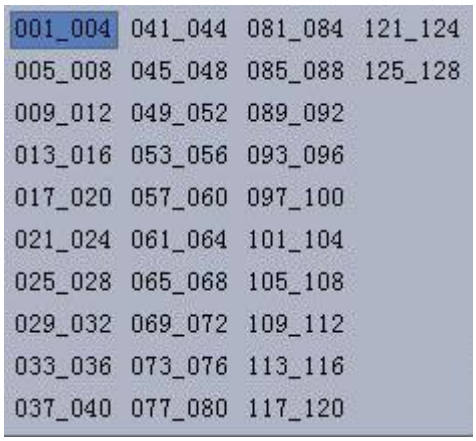


Figure 5-8

Move the mouse to a window, click , you can switch between main stream/extra stream/auto.

Click to cancel binding. Or you can right click mouse to cancel binding or change bit stream type.

Note:

- **This manual is for reference only. Slight difference may be found in the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks are the properties of their respective owners.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website or contact your local service engineer for more information.**