

Smart Professional Surveillance System User's Manual

Version 1.16.1

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Welcome

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

1. Overview and Environment

1.1 Overview

SmartPSS 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.
- Video wall plan setup and can output video 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 storage server max supports to save 32-channel video

1.3 Environments

For PC there SmartPSS is installed.

Item	Requirements
OS	Windows XP and higher.
CPU	Intel core i3 or higher.
Display card	Intel HD Graphics and higher.
Memory	2GB or higher.
Displayer Resolution	1024×768 or higher.

2. Installation and Upgrade

2.1 Installation

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

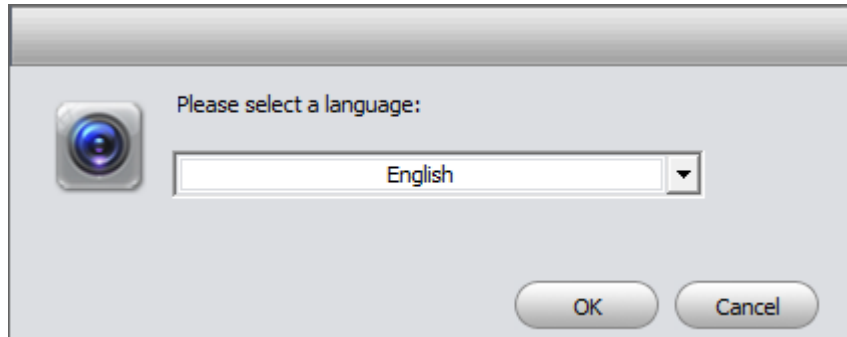


Figure 2-1

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



Figure 2-2

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

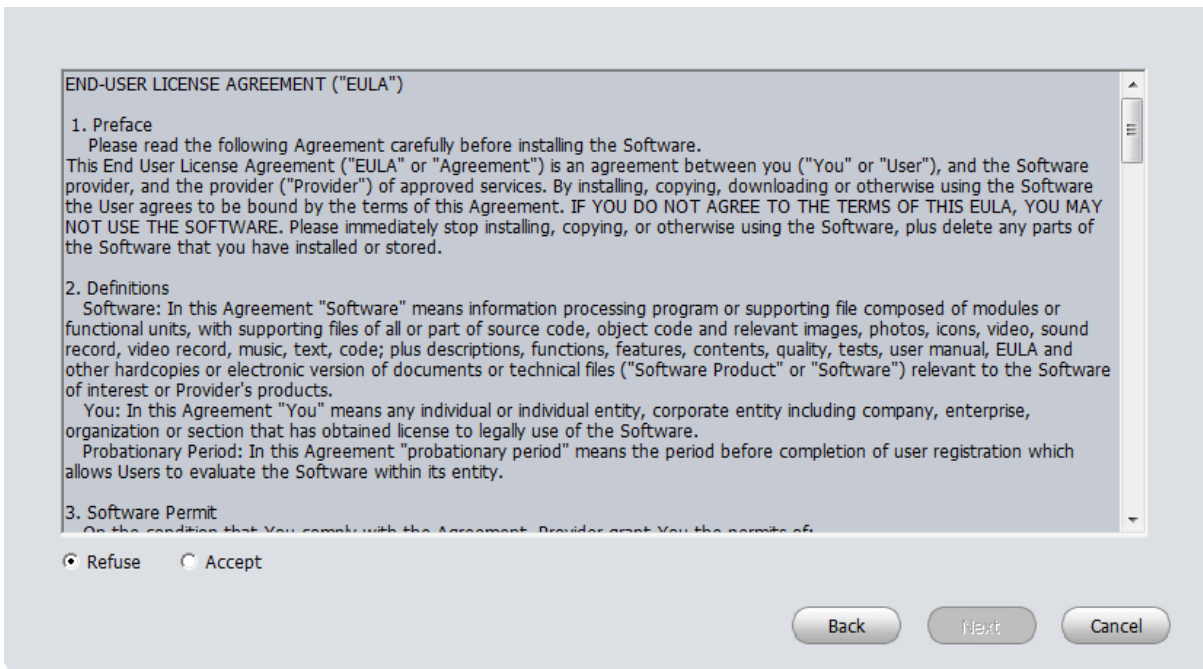


Figure 2-3

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

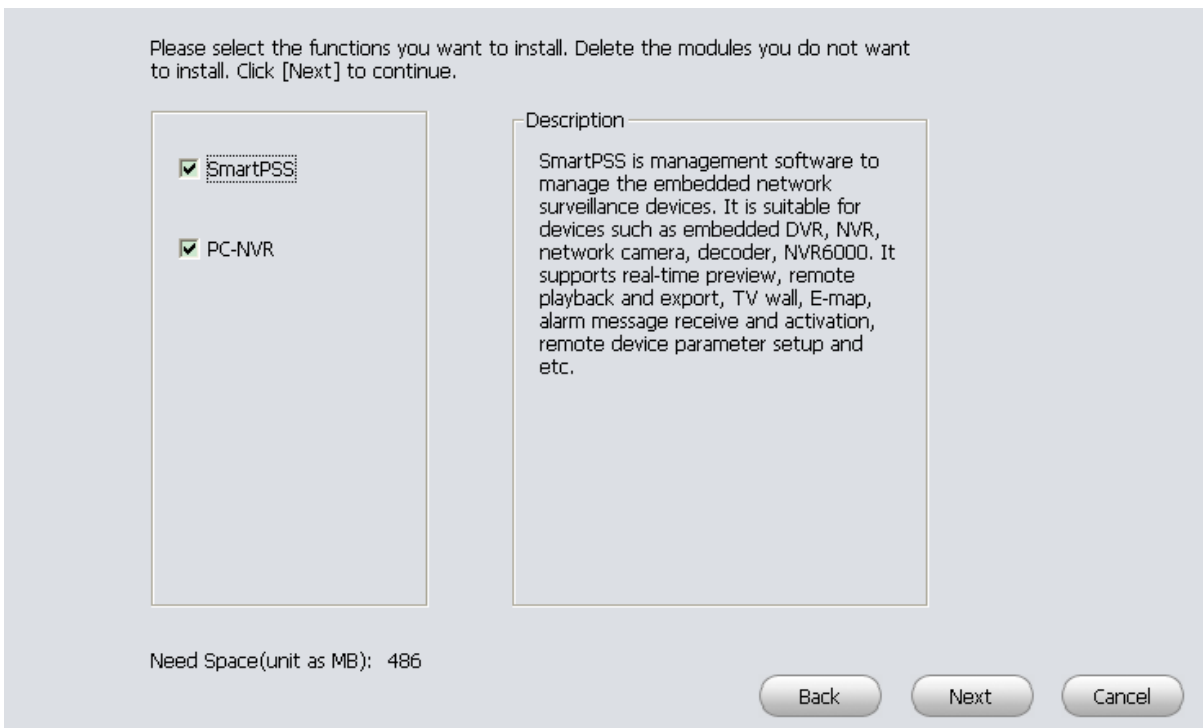


Figure 2-4

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

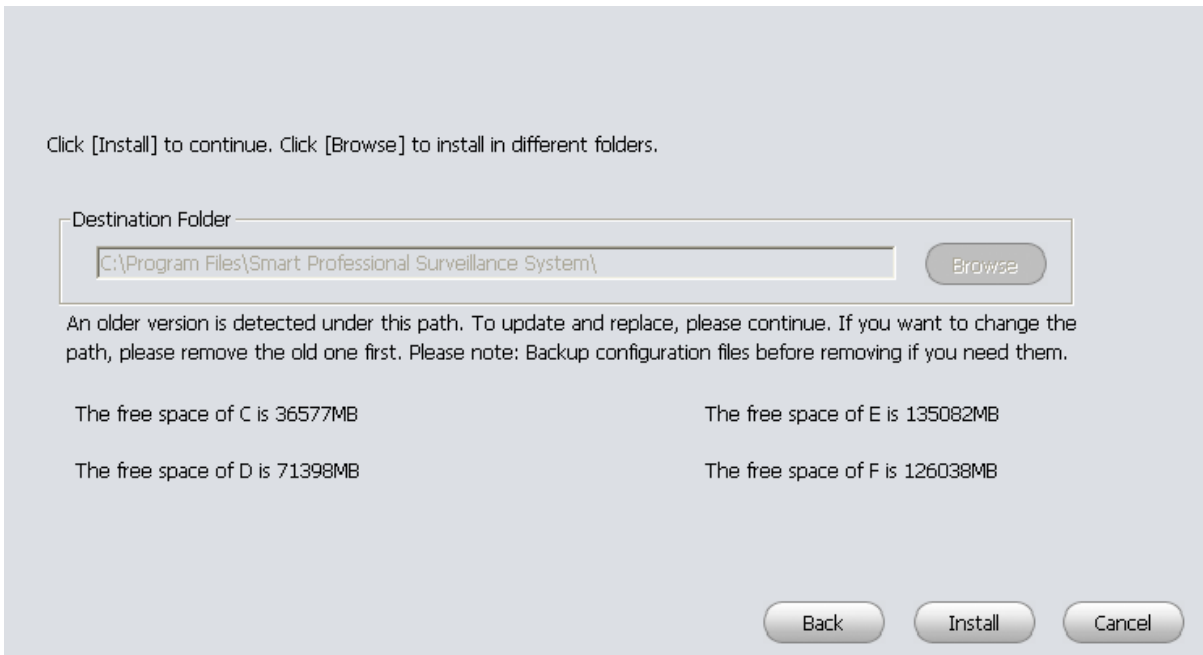


Figure 2-5

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

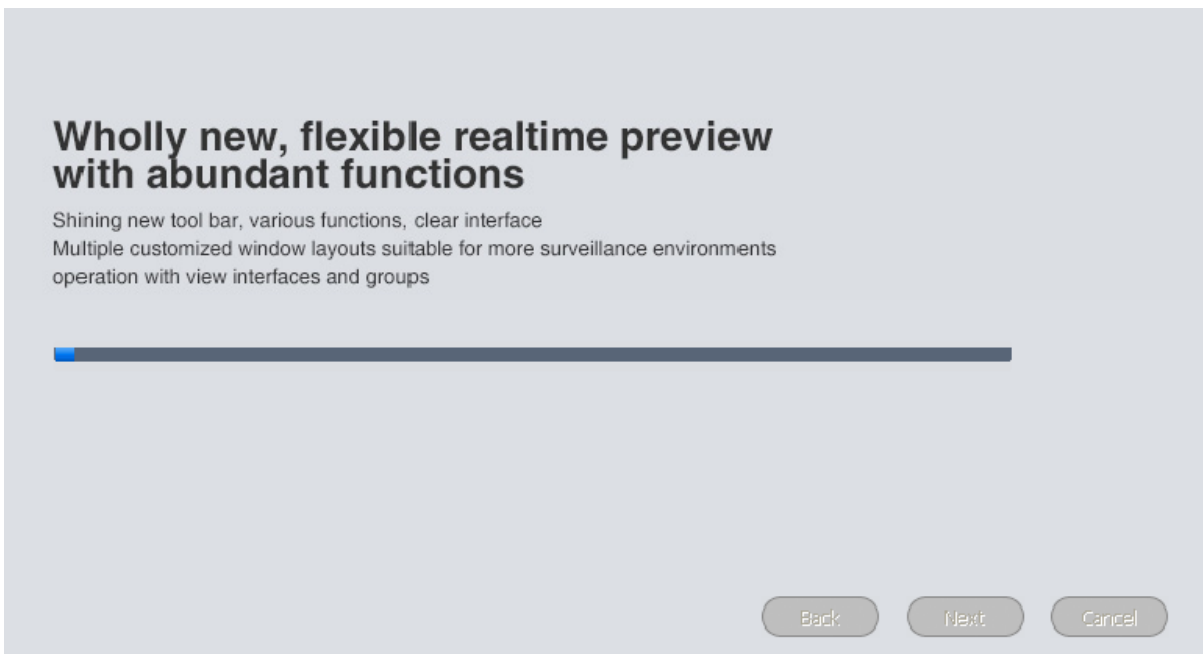


Figure 2-6

- 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

- Click Finish button, you can complete the installation.

2.2 Un-installation

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

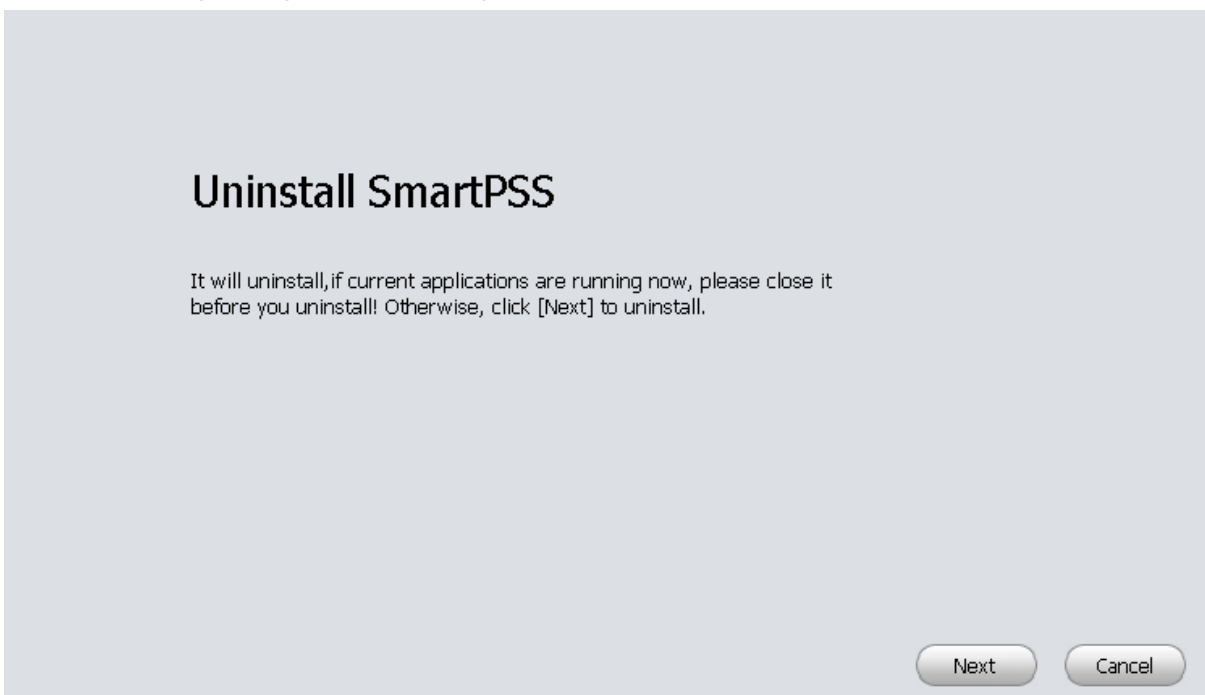


Figure 2-8

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



Figure 2-9

3. Setting



Double click SmartPSS icon , you can go to the login interface.

3.1 Login Interface

Login interface is shown as in Figure 3-2.

- 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 homepage. (First time login shows device interface.)
- Cancel: Click this button to exit login interface.

Note:

- If it is your first time to run the SmartPSS program, you need to set admin password, see Figure 3-1.

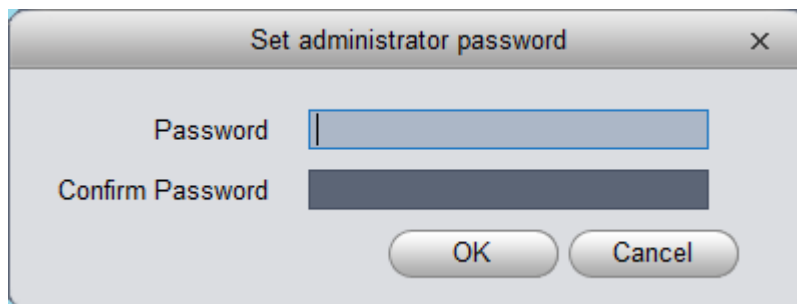


Figure 3-1

- System initial username is “admin”, but initial password is set by user.
- 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 3-2

3.2 Homepage

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

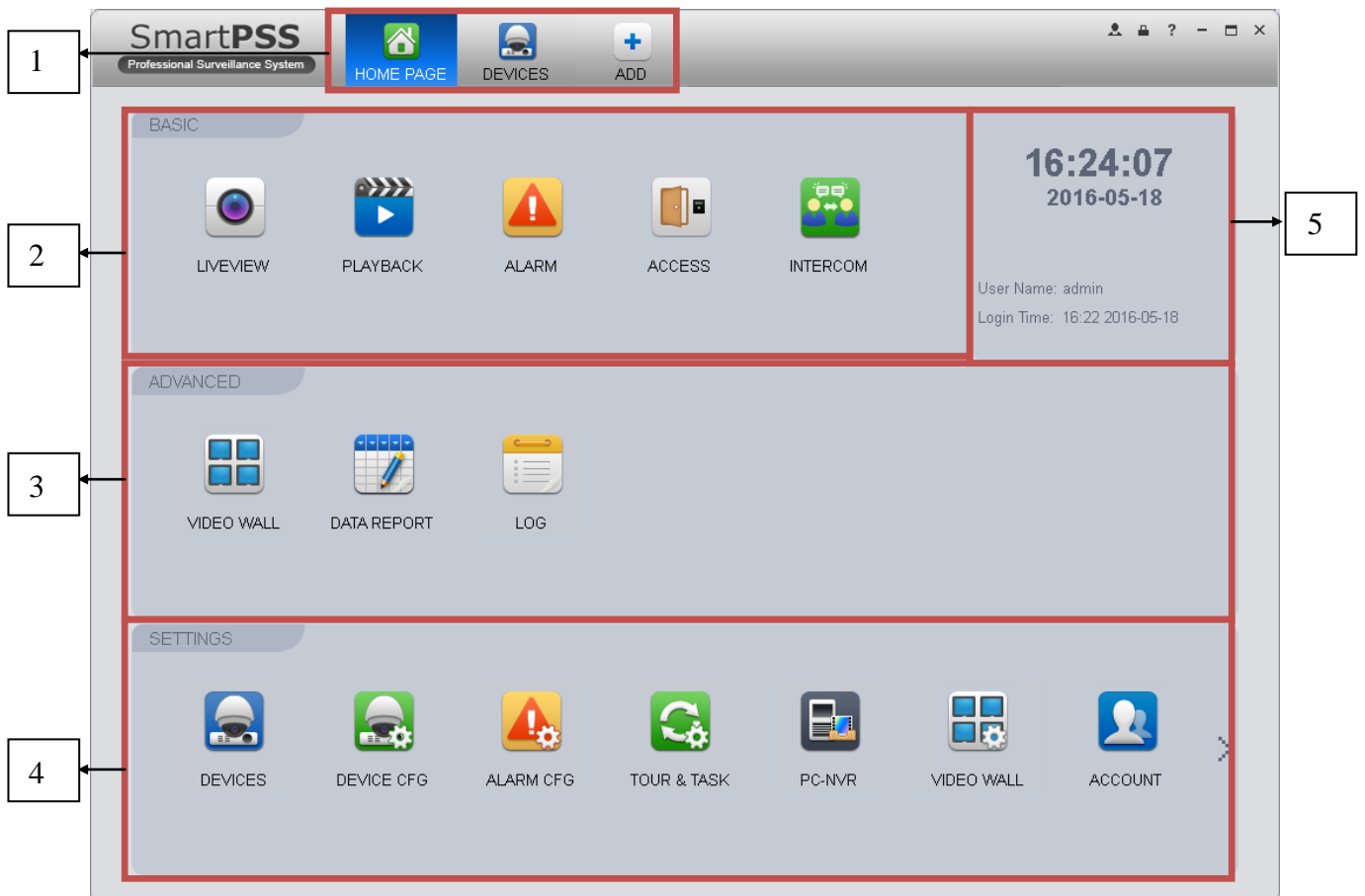


Figure 3-3


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 live view, playback, alarm manager, access control and video intercom.
3	Extension	It includes video wall, data report, and log search.
4	Settings	It includes devices manager, signals manager, alarm setup, tour and task, PC-NVR, video wall management, account, general setup and etc.
5	SmartPSS basic information	It is to display current time, username, login time.

3.3 General

If it is your first time to login the SmartPSS, you need to set system parameter. It includes network performance, log save time, login SmartPSS 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 3-4.

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

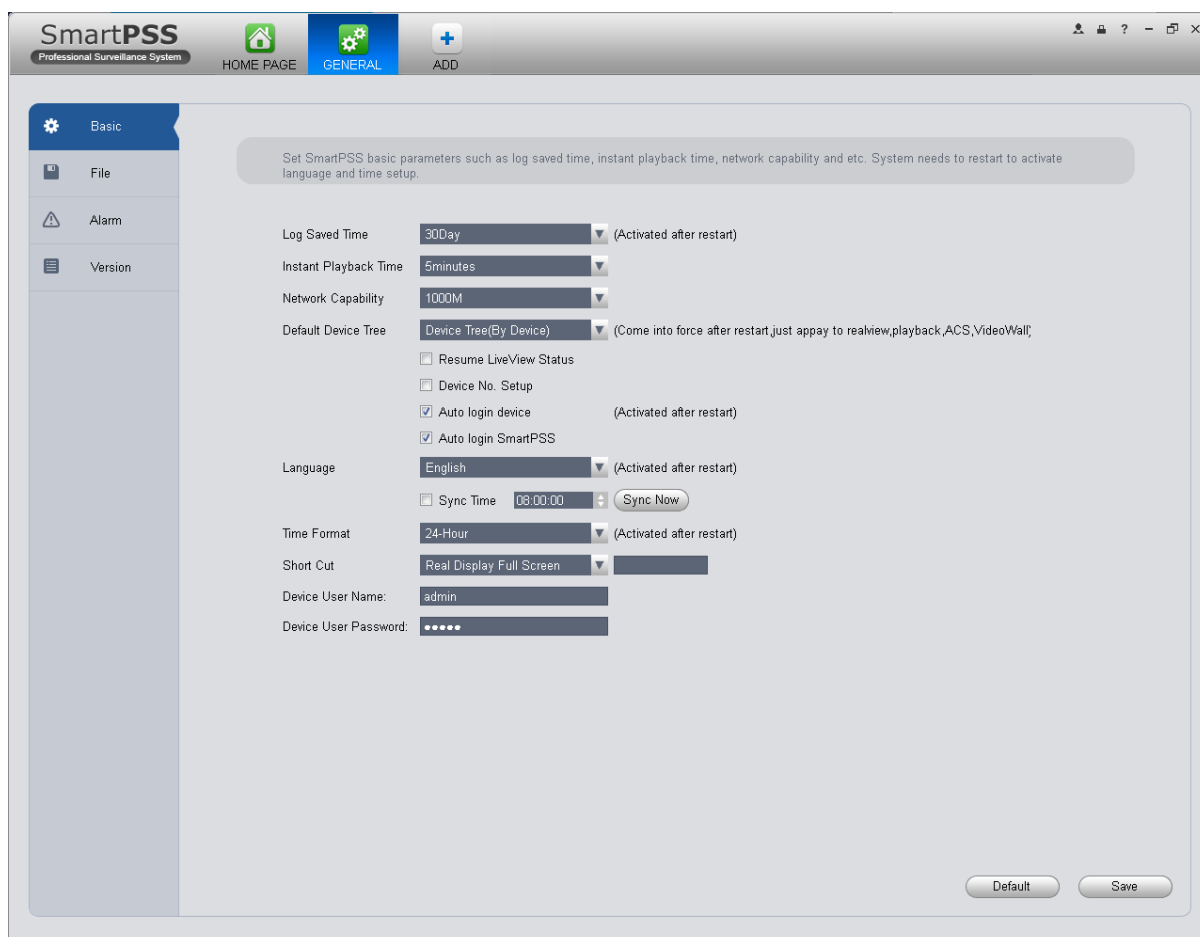


Figure 3-4

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 Playback Time	It is to set instant playback time. If you set 5 minutes, then it plays video starting 5 minutes prior to current time.
Network capability	It is for you to set network function. It includes: "Low", "10M", "100M", "1000M".

Item	Function
Default Device Tree	Set device tree display of preview, playback access control and other modules. Device tree (by device) as group by device. Region/Tree (by channel) as group by channel.
Resume Previous State	System restores previous liveview status after it restarts.
Device No. Setup	Customize no. for video channel with device, when NKB is connected, you can open video channel according to your customized channel no.
Auto device login	When program start up, auto login existing device or not. If you select this parameter, then at next login, it auto logs in existing device.
Auto login SmartPSS	Check the box here, you can login SmartPSS directly without inputting user name and password.
Language	Software language.
Sync time	Check the box here to enable time synchronization function and then input synchronization time. SmartPSS 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.
Short Cut	Set preview window, record playback, alarm management, e-map and etc.
Device User Name	Set device login username.
Device User Password	Set login password.

3.3.1 File Path

File configuration interface is shown as below. See Figure 3-5.

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.

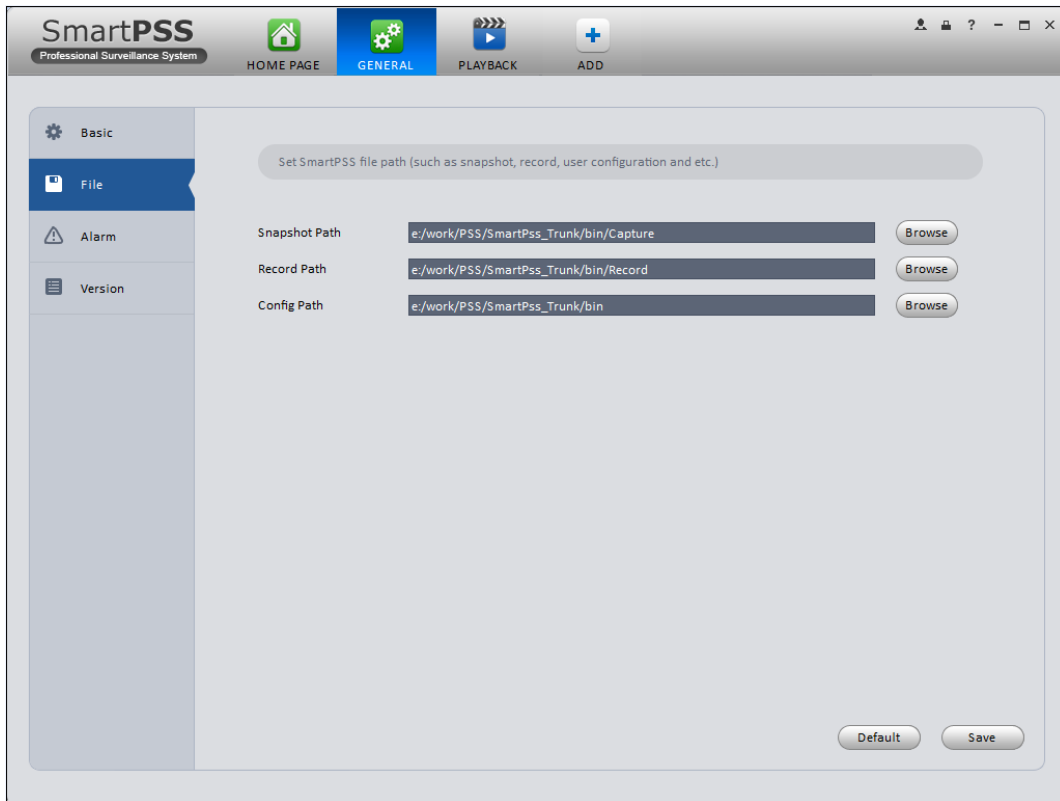


Figure 3-5

3.3.2 Alarm

It is to set alarm prompt audio. The interface is shown as below. See Figure 3-6. Configure alarm type prompt. Click Save.

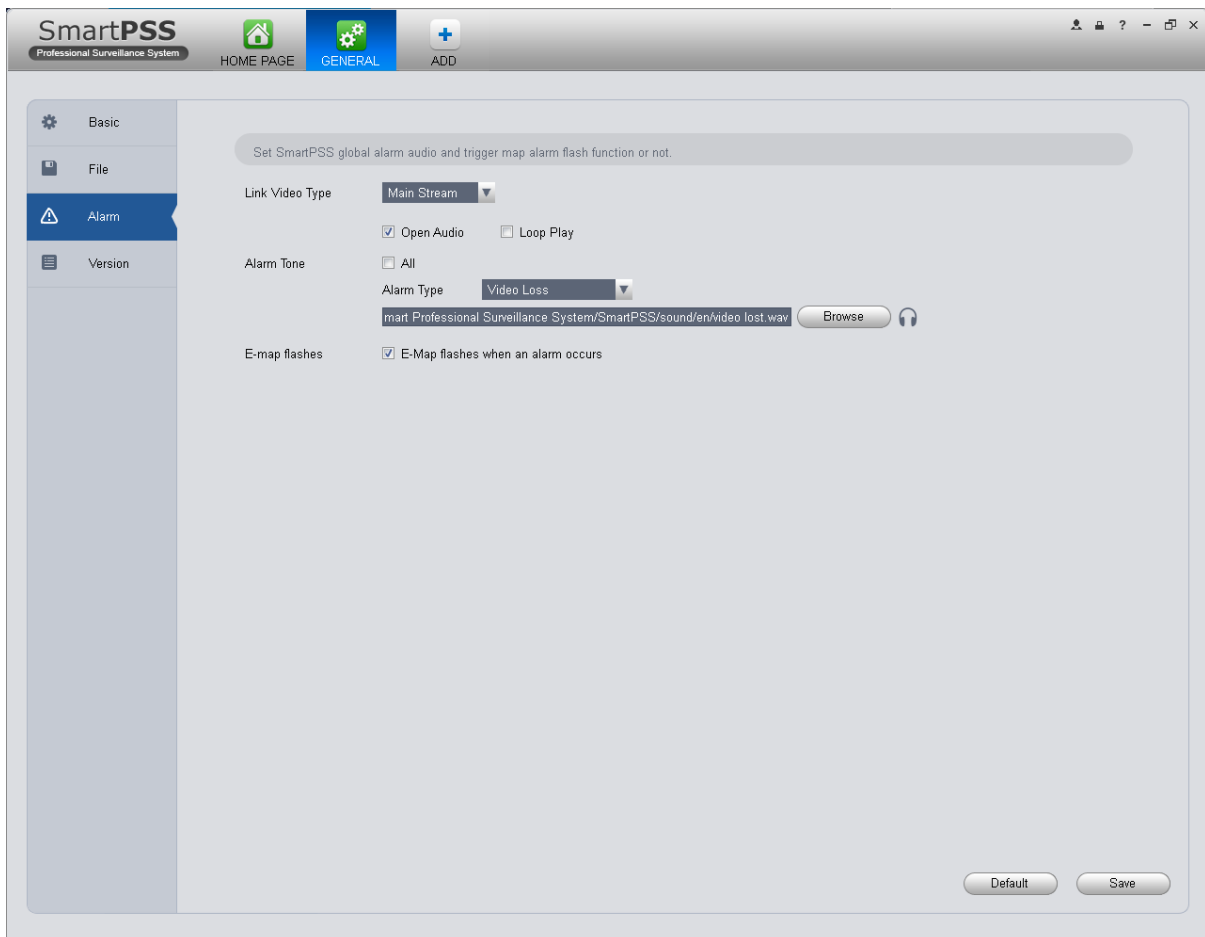


Figure 3-6

Tips

You can click Default button to restore factory default setup.

User config file storage path is used to import and export user config file. If current user config file storage path is modified to other path, then it means all users' config info are exported. If user re-install, he can export previous all user's config info to current client.

If he re-install the software and import previously exported user config info, after being saved, original user config info will be successfully imported into current client.

3.3.3 Version


Click the version button; you can go to the following interface.

Here you can view software version information.

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.

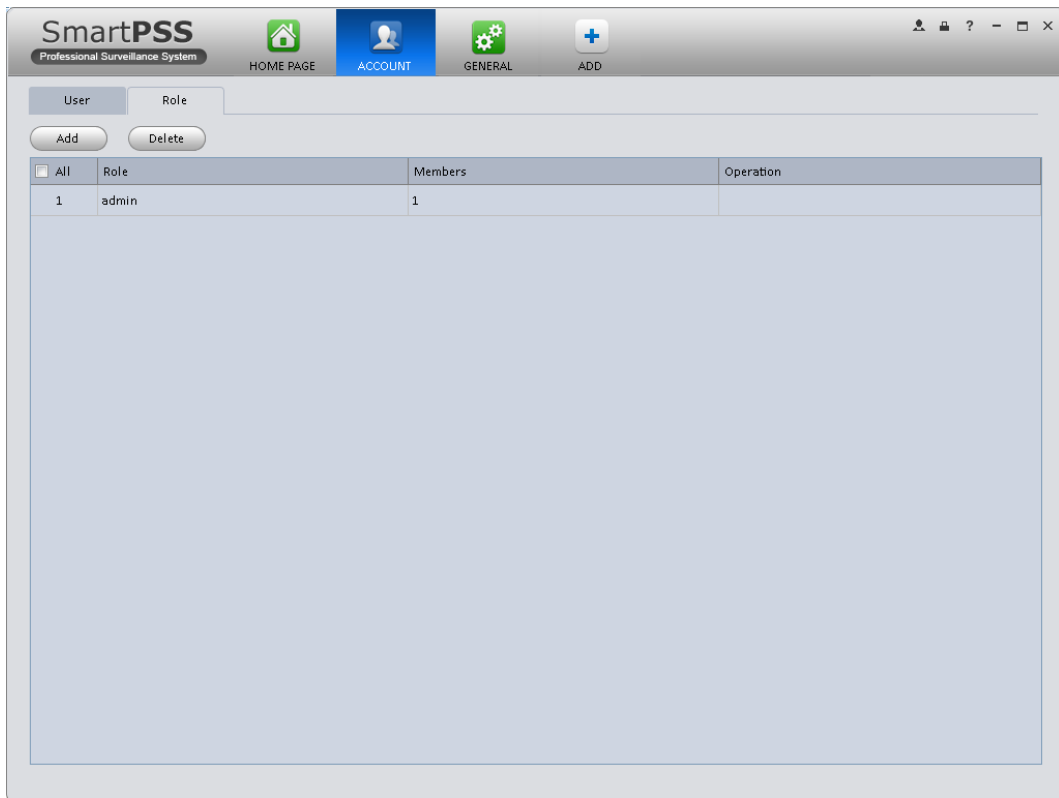


Figure 3-7

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

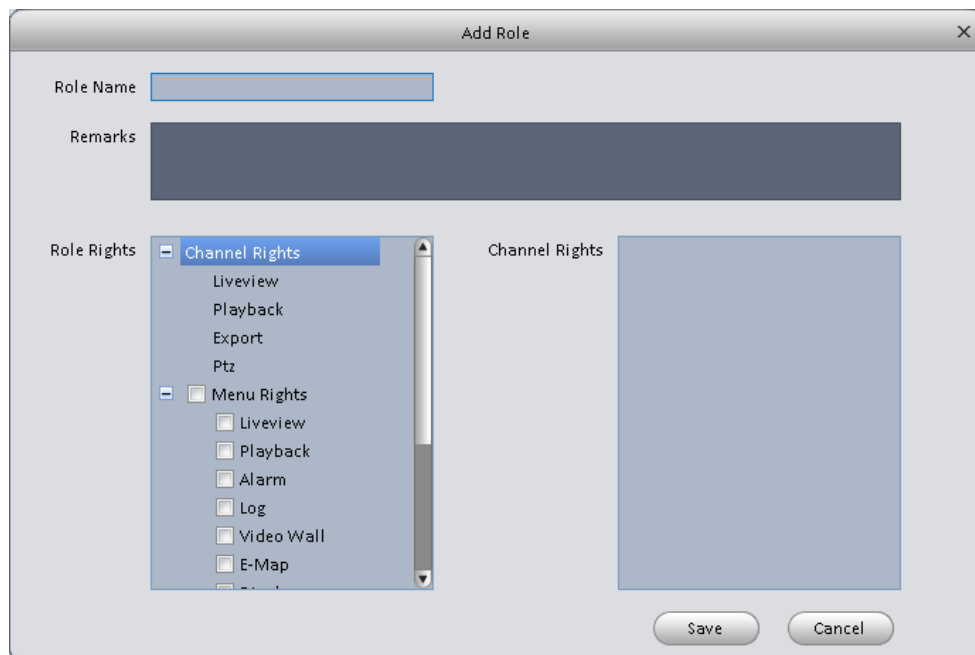



Figure 3-8

- 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.

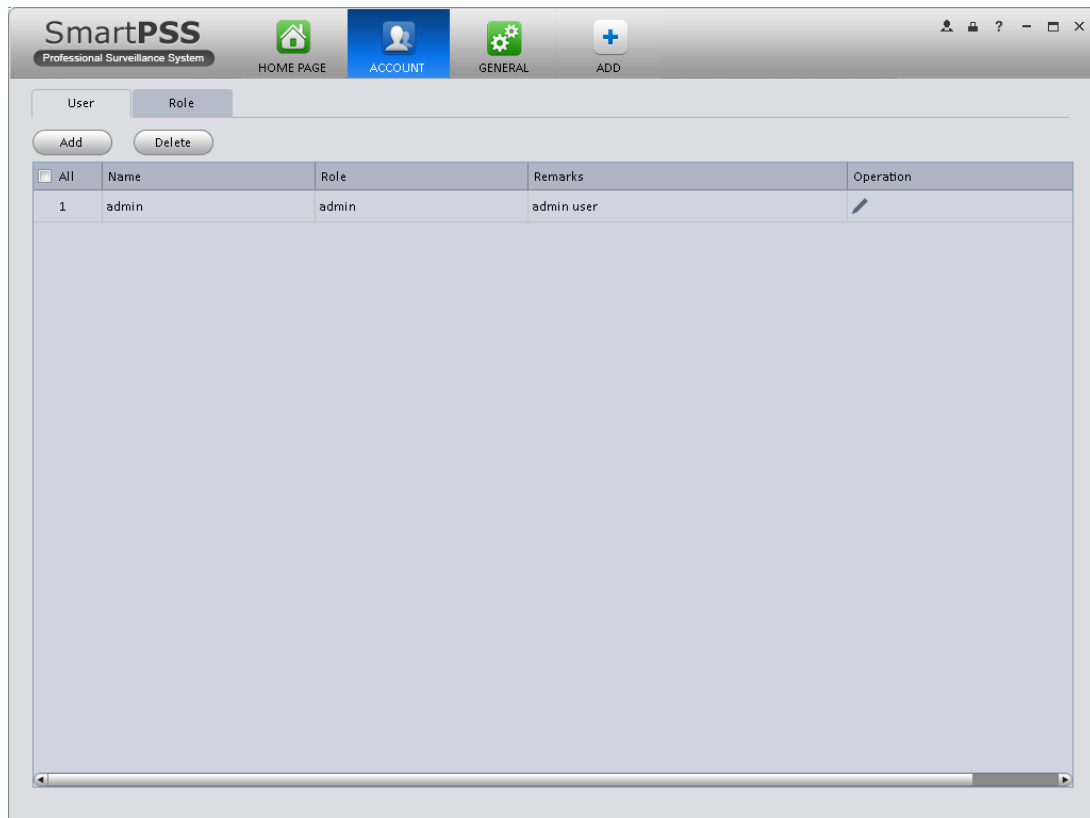


Figure 3-9

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

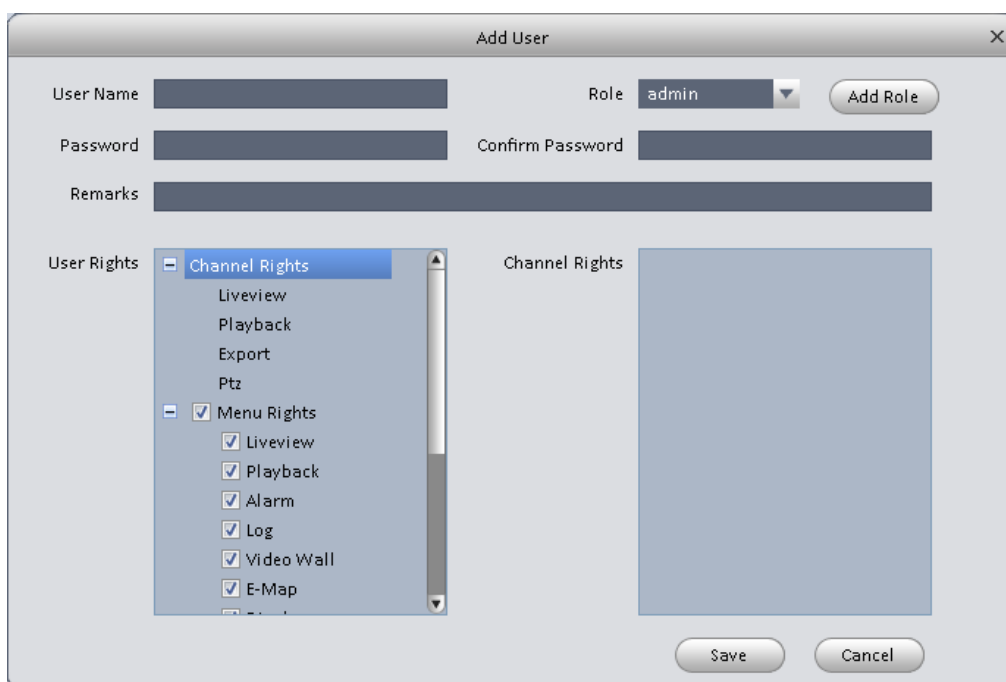


Figure 3-10

- 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.
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.

- 5) Click Save button to add a new user.

Tips


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

3.5 Device Manager

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

Auto Add




- 1) Click  icon. System displays device manager interface.
- 2) Click Refresh, search device within the LAN. You also can enter device segment, and click search to search devices within the same segment.
- 3) Check device, click Add as auto add device. You also can double click the device you want to add. The added device will be shown in list below, where you can view device type, channel and status. You can modify, logout and delete the device.

Manually Add

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.

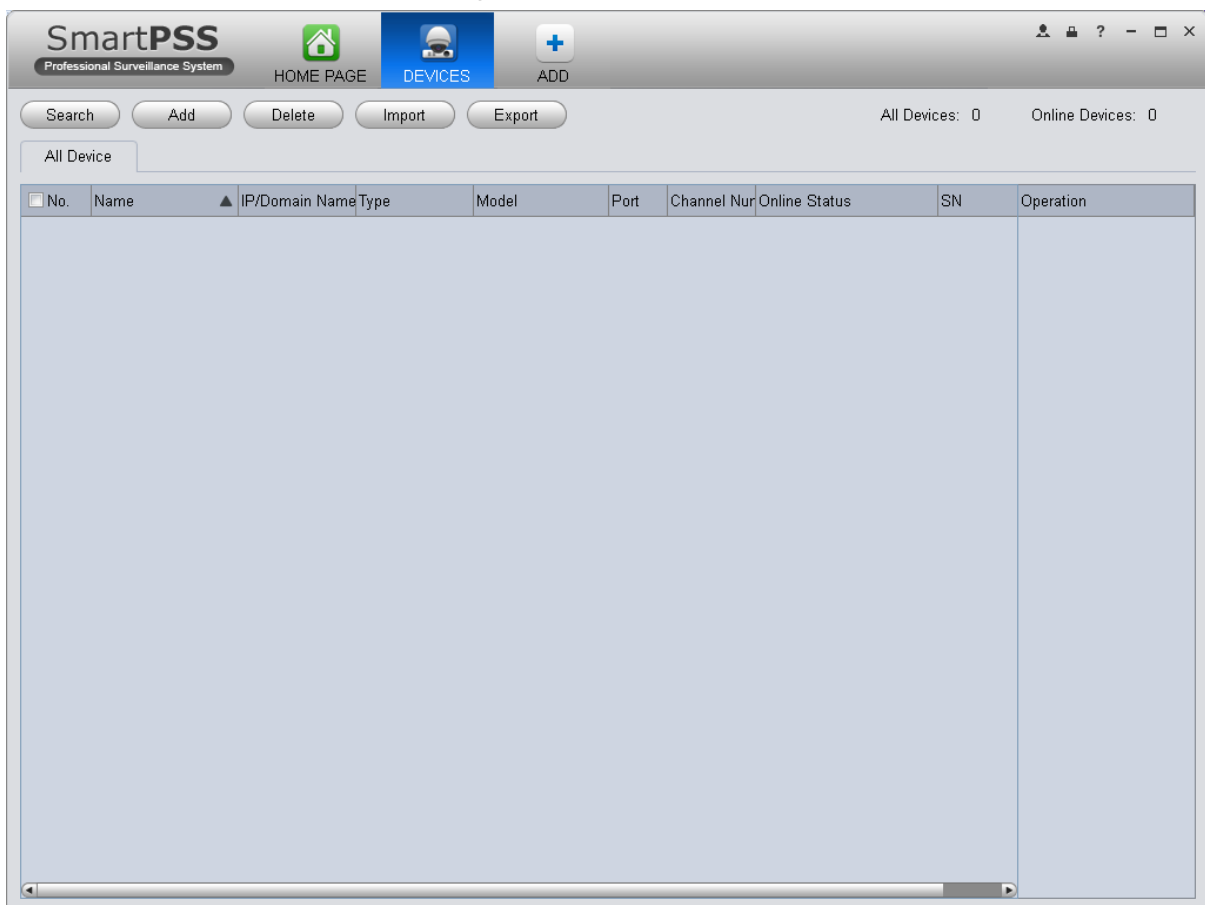


Figure 3-11

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

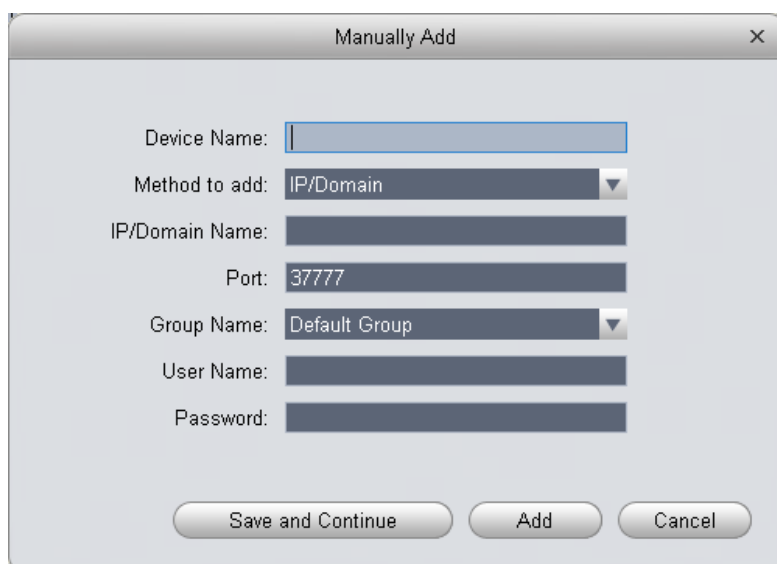


Figure 3-12

Please refer to the following sheet for detailed information.

Item	Function
Device name	Please input a device name here.
Register Mode	By IP/domain and SN.
IP/Domain name	Device IP address or domain name. Note: You can add device of IPV6 address.
SN	Device SN. Note: For P2P device only.
Port	Device IP port. It is 37777 by default.
Group Name	You can choose one group.
User name	The user name you login the device.
Password	The password you login the device.

- 3) Click Add. You can click Save and Continue to add next device. Added devices are shown as in Figure 3-14.

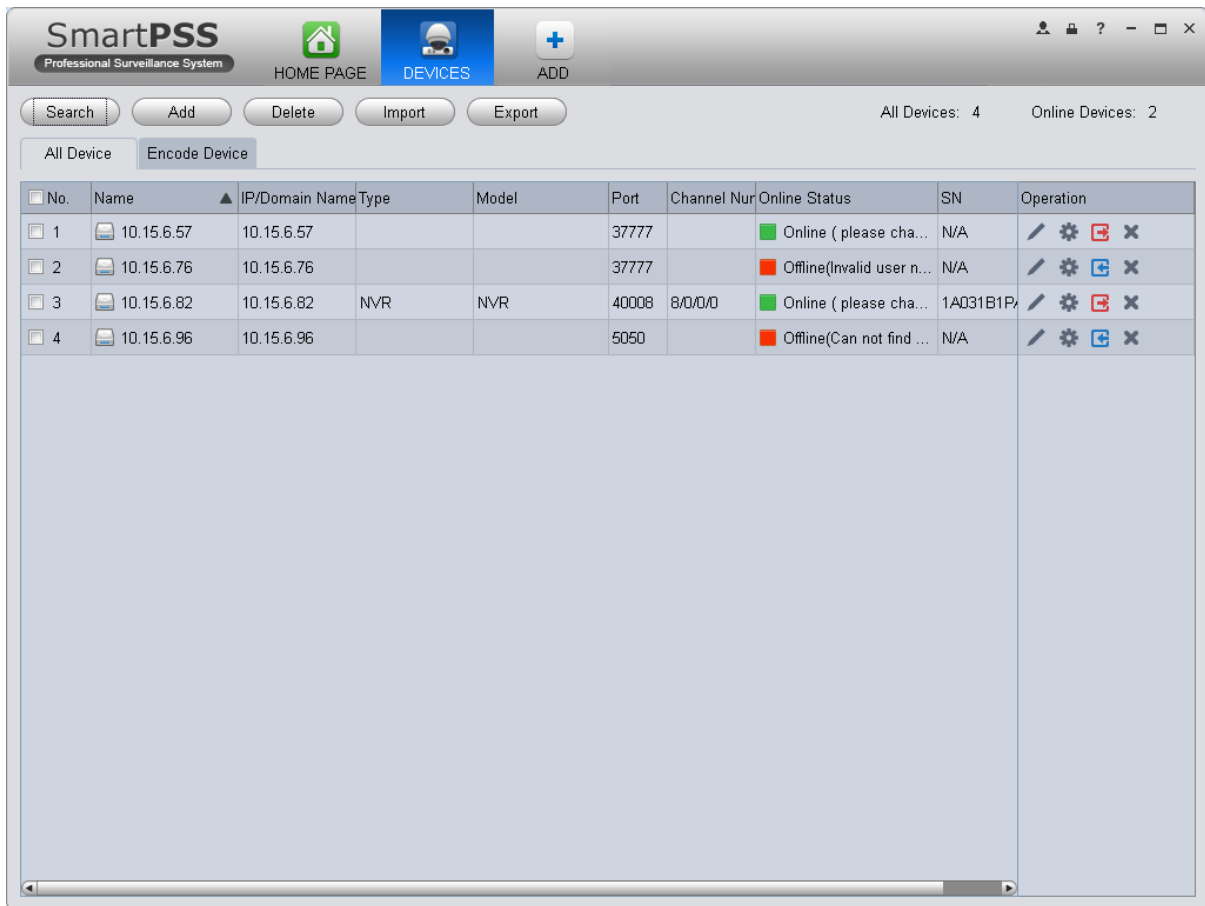


Figure 3-13

Tips

Select a device in the list, and then:

- Click to modify, or click to delete it.
 - Click to set device.
 - Click to login the device manually.
 - Click to logout the device manually.
 - Click button and then select save path to save current device list to .xml file.
- 4) Click Import to batch import local config in .xml format. Or you can import with Easy 4IP account. See Figure 3-15.

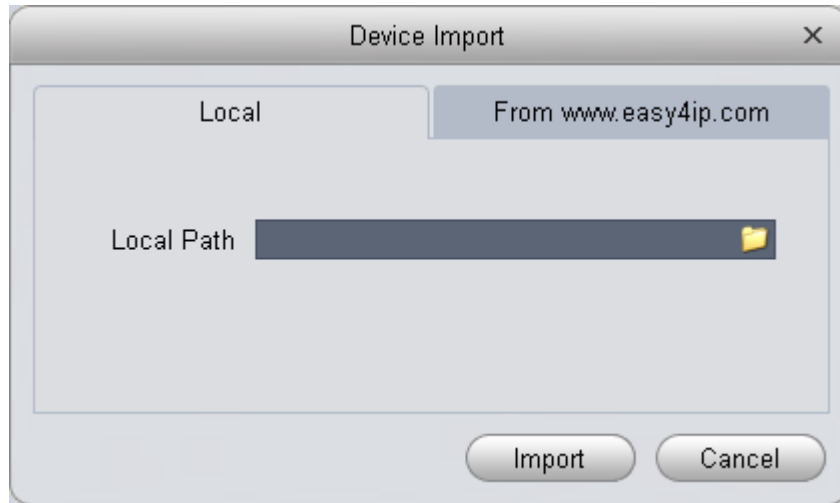



Figure 3-14

If the system config enables device no. setup, then you can see  in operation column of device.

1. Click , system pops up device no. setup box, see Figure 3-16.

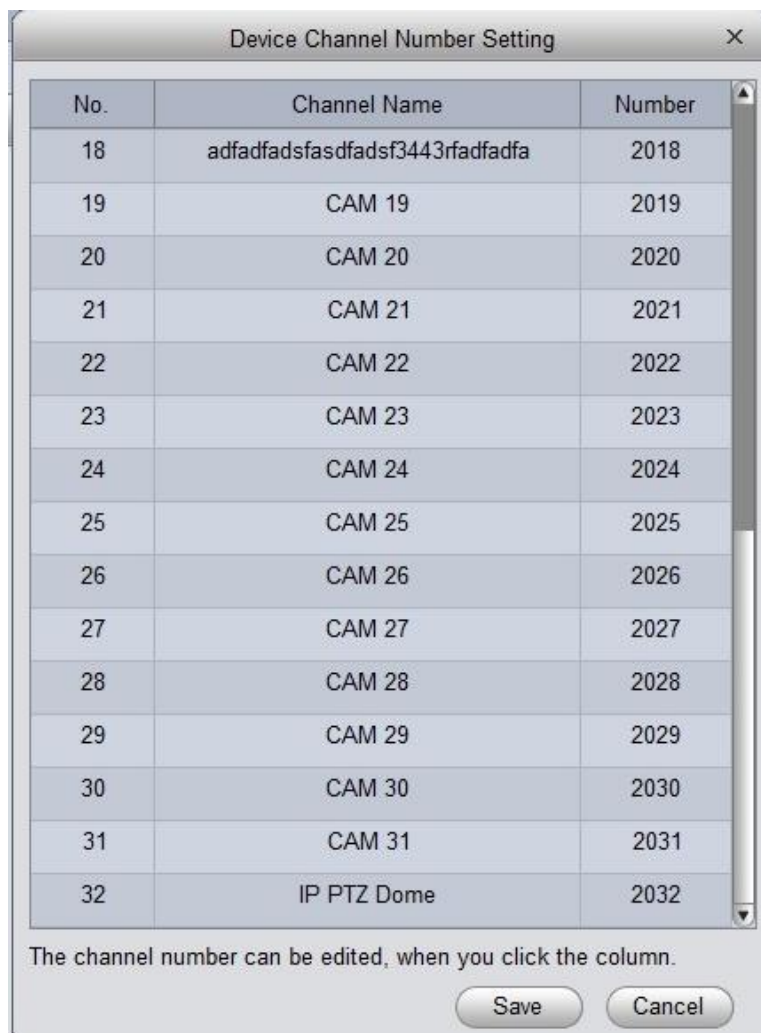


Figure 3-15

2. Click list, you may edit/input no., see Figure 3-17.



No.	Channel Name	No.
1	Channel 1	2001
2	Channel 2	2002
3	Channel 3	3333

Figure 3-16

NKB keyboard can encode channel and control channel, as it can directly open channel video by encoding. For more information, please refer to NKB user's manual.

3.6 Device CFG

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



On the homepage, click button in the Settings pane, you can go to the following interface. See Figure 3-17.



Figure 3-17

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. See Figure 3-18.

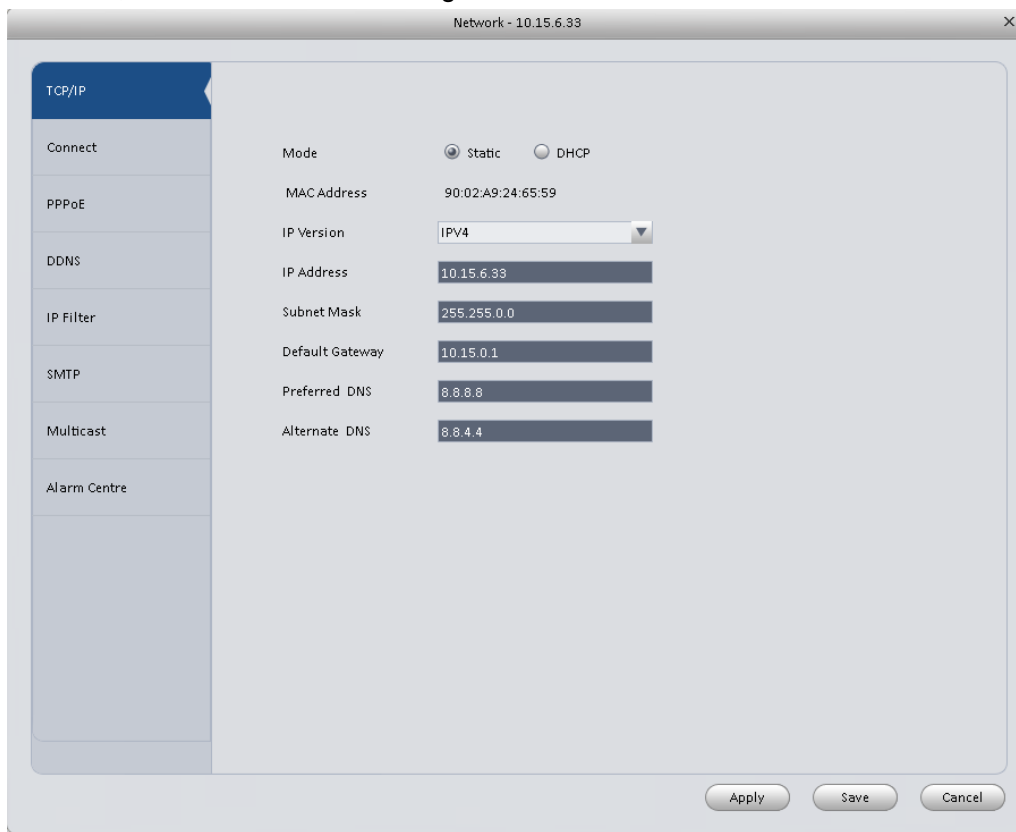


Figure 3-18

3.6.1.2 Remote

Here you can add remote device manually or automatically. See Figure 3-19.

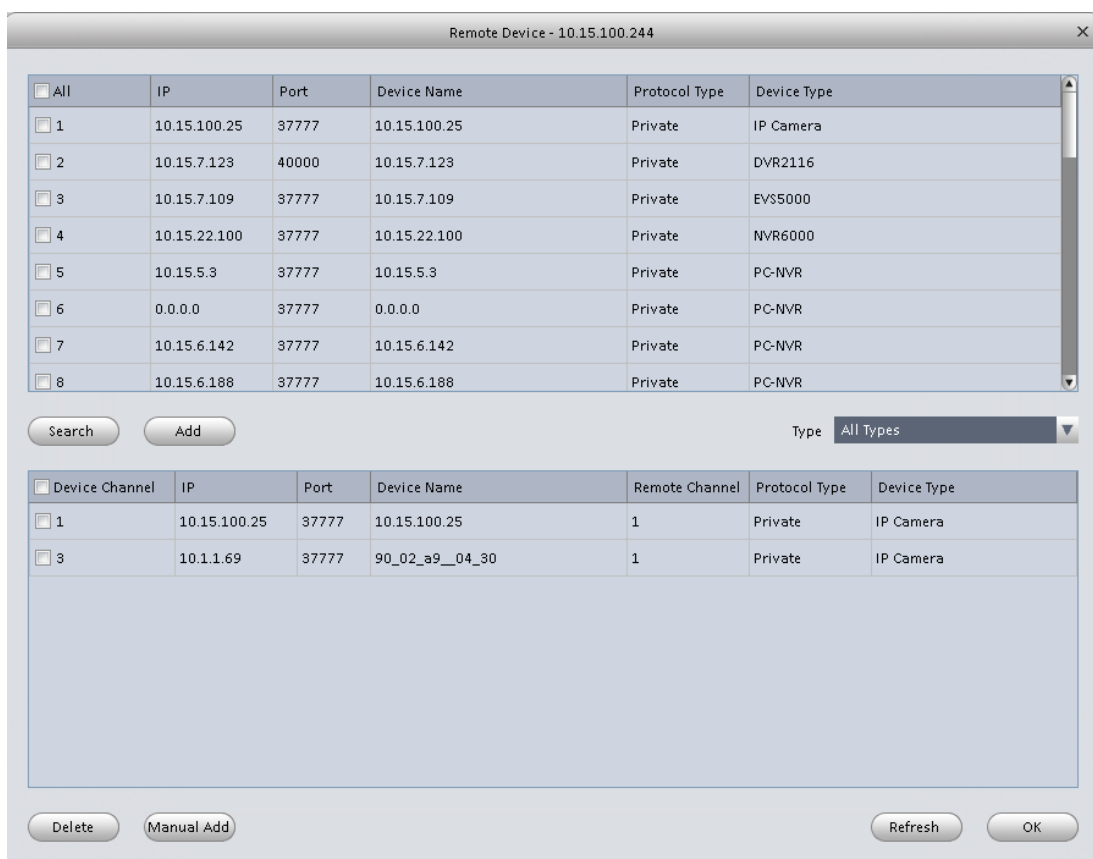


Figure 3-19

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 3-20. Please input the corresponding information and then click OK button to add a remote device.

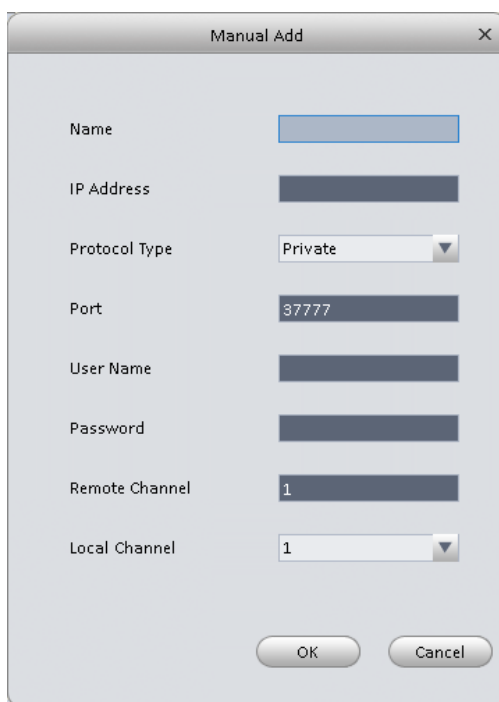


Figure 3-20

3.6.1.3 Encode

3.6.1.3.1 Audio/Video

The interface is shown as below. See Figure 3-21. Here you can set audio/video bit stream.

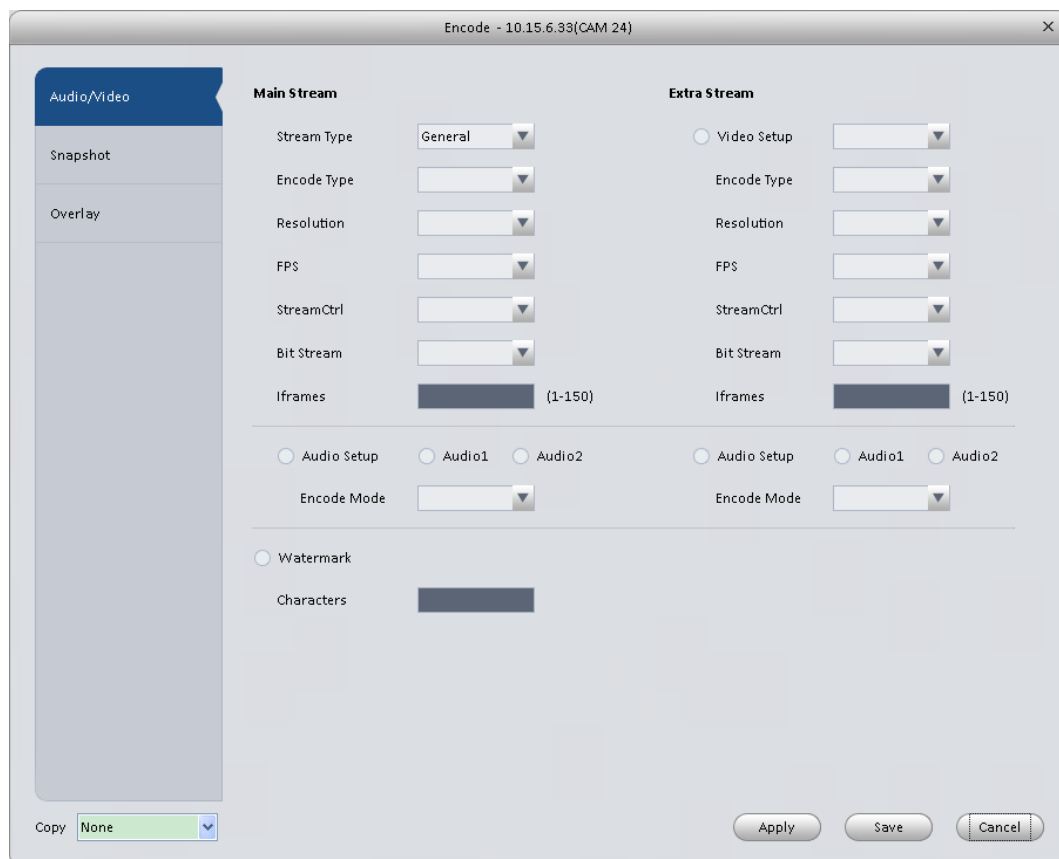


Figure 3-21

Please refer to the following sheet for detailed information.

Parameter	Function
Video setup	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.
Ref Stream	According to selected encode mode, resolution, display bit stream. (range)
Iframes	Interval between key frames.

Audio encode mode	Check the box here to enable audio function and select encode type from the dropdown list.
Watermark /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.
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 3-22.

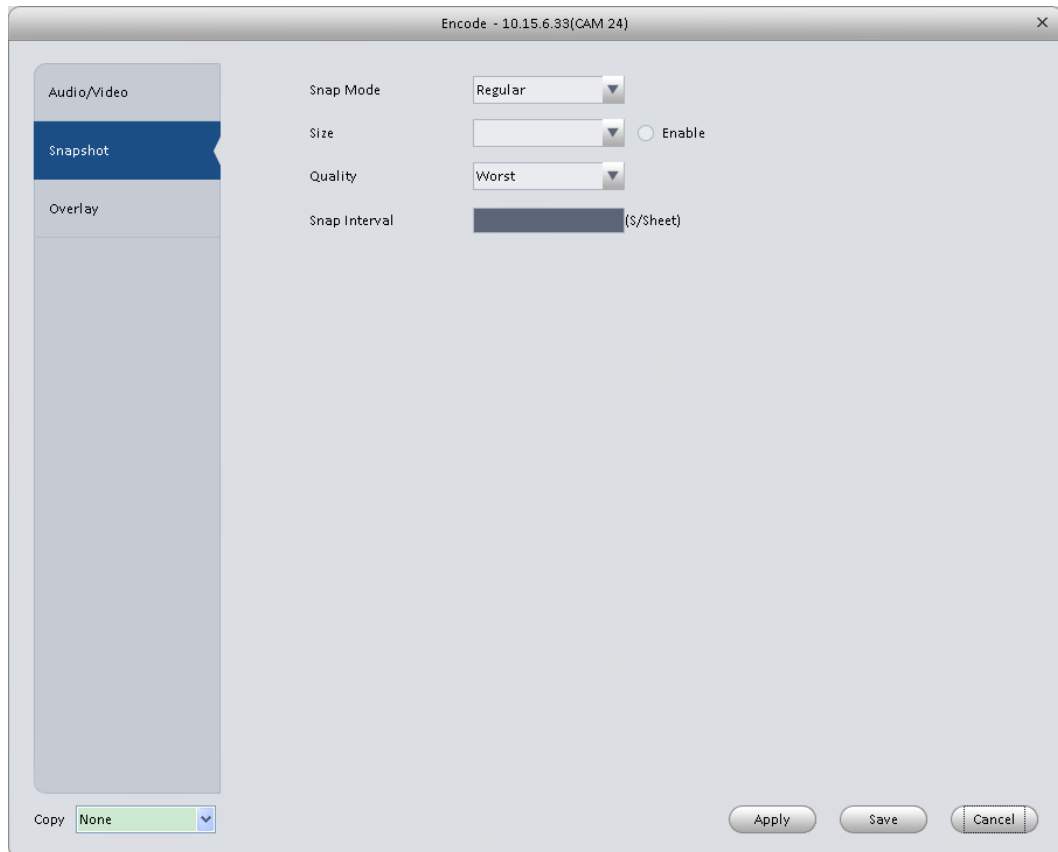


Figure 3-22

Please refer to the following sheet for detailed information.

Parameter	Function
Snapshot type	There are three modes. <ul style="list-style-type: none"> ● Regular: It enables snapshot function as you set on the snapshot plan. ● Trigger: It enables snapshot function when motion detect occurs. ● ALM: 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 3-23.

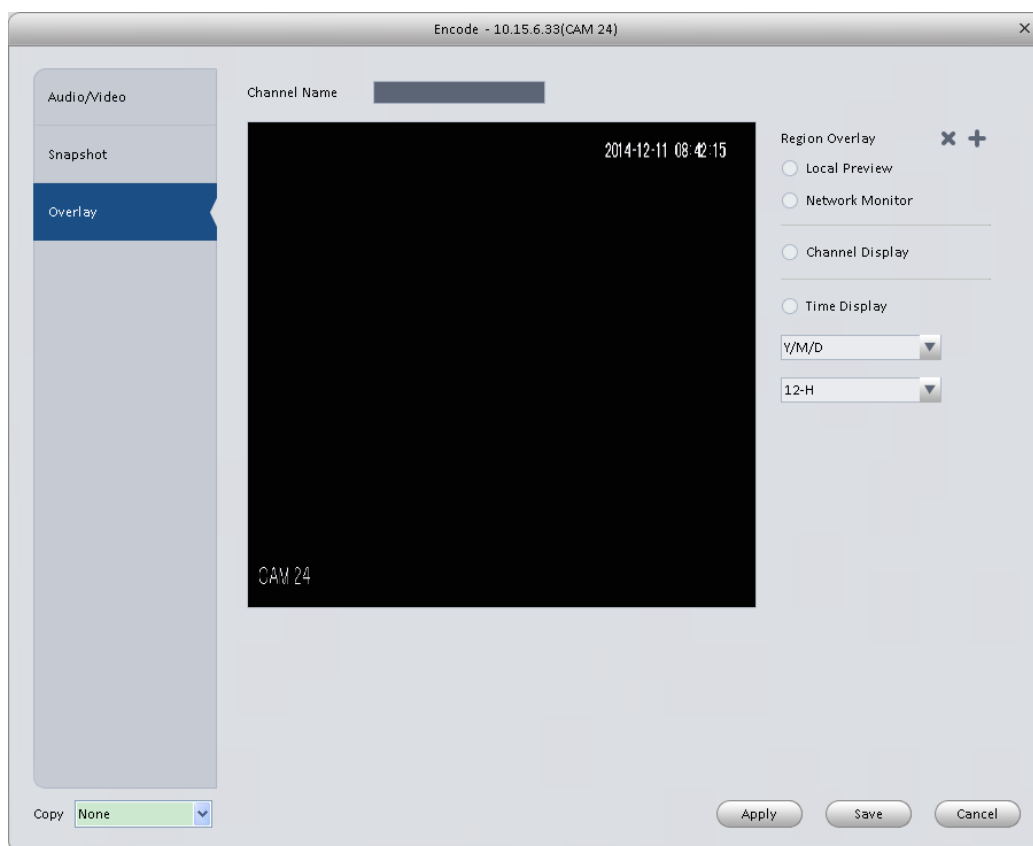


Figure 3-23

Please refer to the following sheet for detailed information.

Parameter	Function
Channel Name	Set channel name.
Region overlay	There are two types: Local liveview/network monitor. Local liveview: It is to shield the corresponding video under local liveview mode. Network monitor: It is to shield the corresponding video under network monitor mode.
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 3-24.

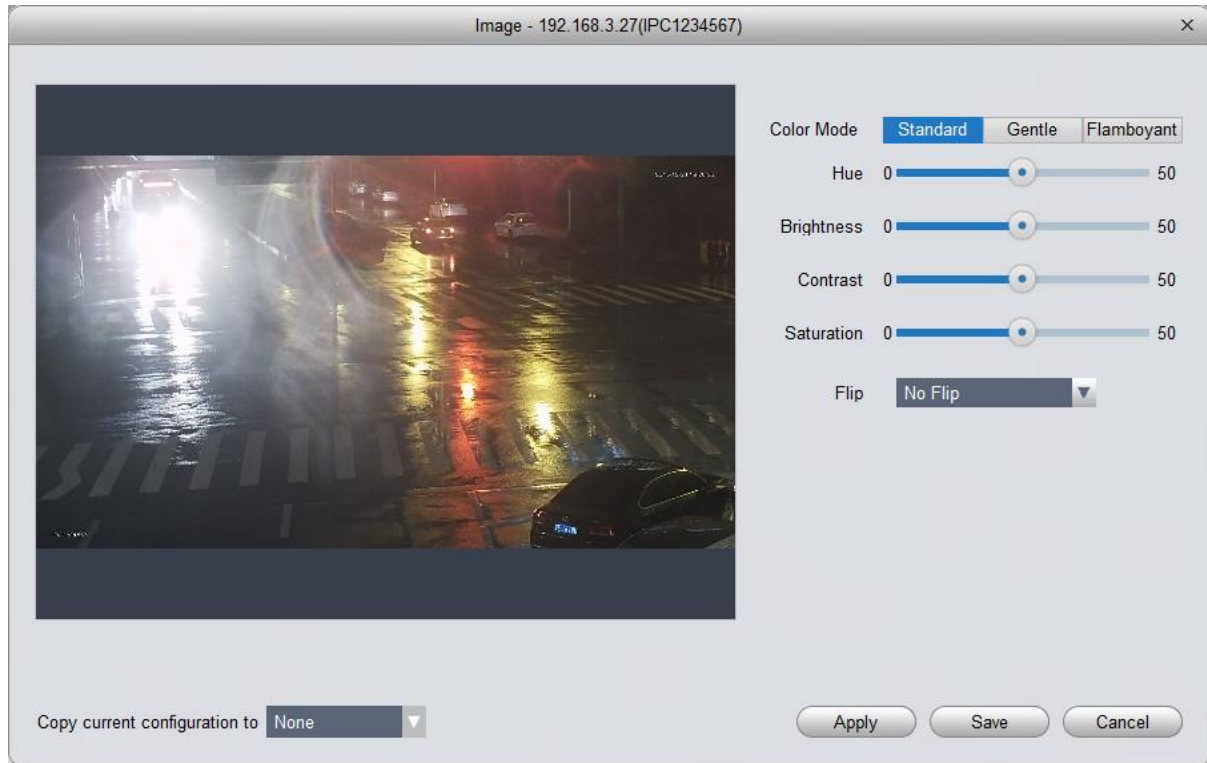


Figure 3-24

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.
Contrast	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.
Viewing Angle	Viewing angle of video. You can select four types of viewing angle. And click Apply to preview on the left.

3.6.1.5 PTZ Control

It is for you to set PTZ parameters. See Figure 3-25.

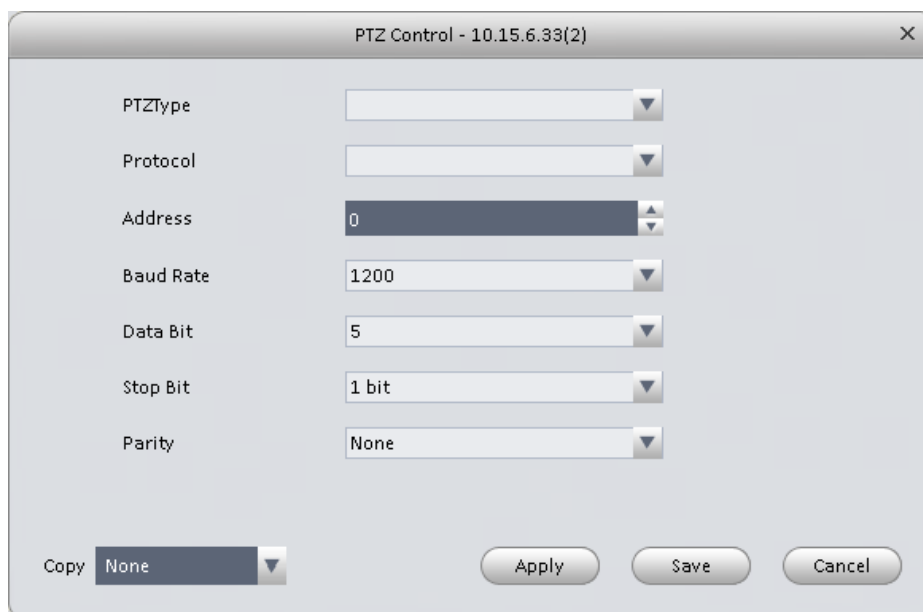


Figure 3-25

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.
Data Bit	Please set according to the speed dome dial switch setup.
Stop bit	Please set according to the speed dome dial switch setup.
Parity	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.

Note:

Enable unfocus: detect defocus image.

Here we use motion detect interface as an example. See Figure 3-26.

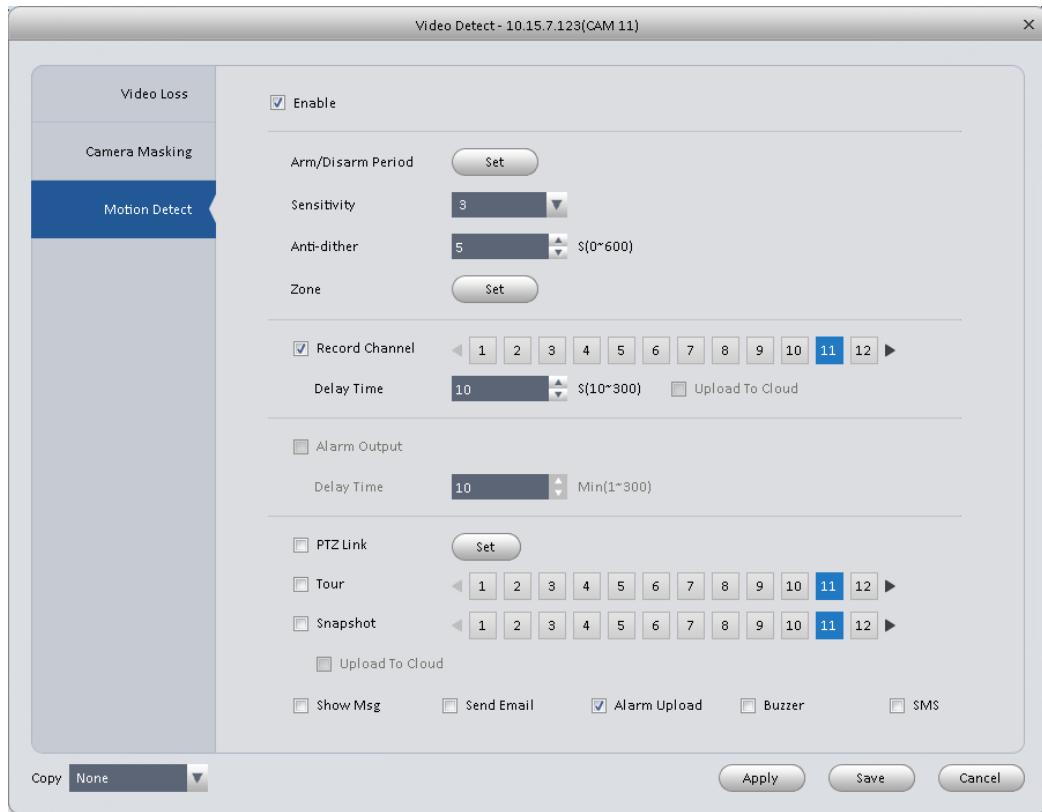


Figure 3-26

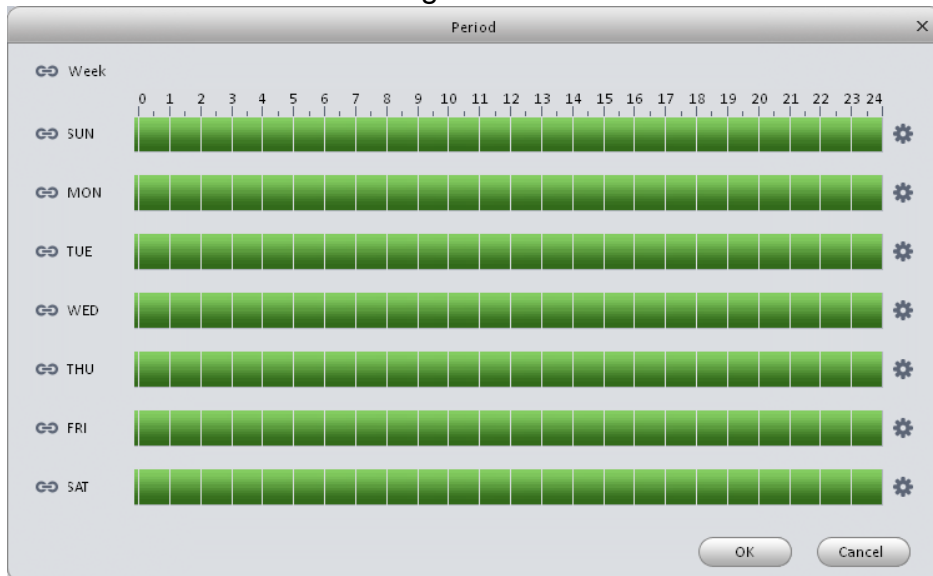


Figure 3-27

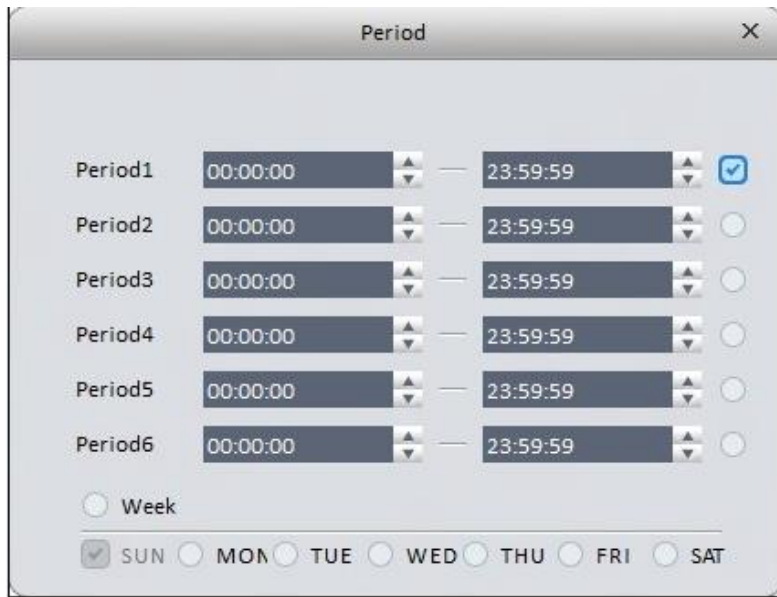


Figure 3-28

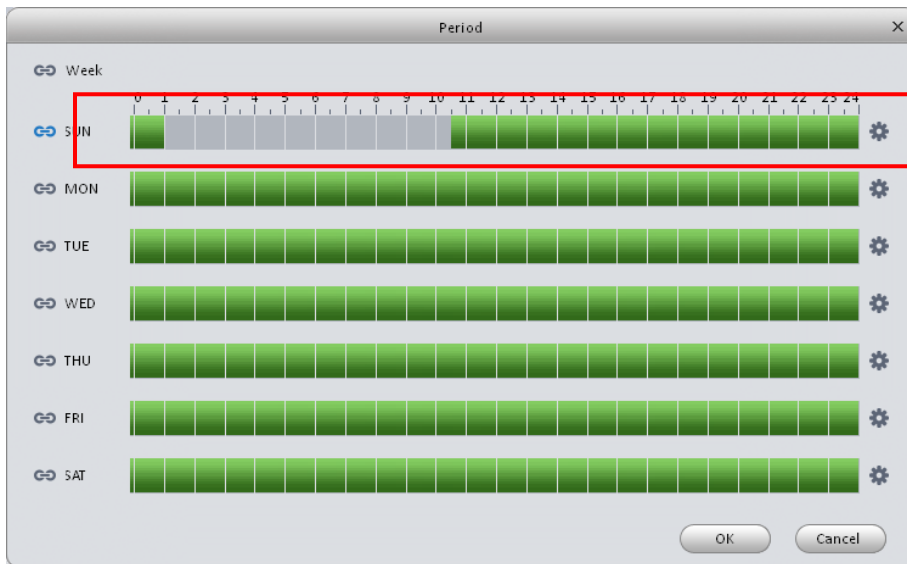


Figure 3-29

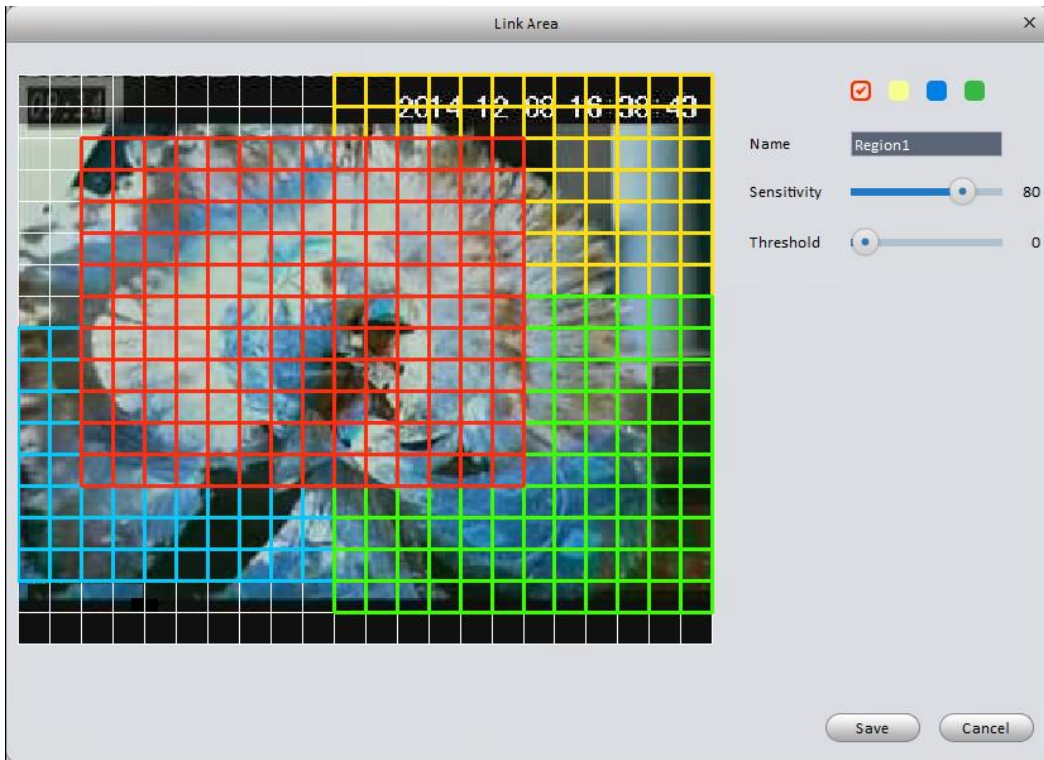



Figure 3-30



Figure 3-31

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	<p>Motion detection function becomes activated in the specified periods. See Figure 3-27.</p> <p>There are six periods in one day. You can click  to set (Figure 3-28) or use mouse to draw the corresponding period on the time bar directly (Figure 3-29).</p> <p>Click OK button, system goes back to motion detection interface, please click OK button to exit.</p>
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 100s.
Zone	You can click this button to set motion detection zone. The interface is shown as in Figure 3-30. Do remember clicking OK button to save your motion detection zone setup.
Record channel	<p>If you select this parameter, then you perform motion detection alarm recording to this channel.</p> <p>Please note you need to select auto record in Record-> record control</p>
Record Delay	System can delay the record for specified time after alarm ended.
Upload To Cloud	Check if to upload to Cloud.
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.
Delay time	System can delay the alarm output for specified time after an alarm ended.
Show msg	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. System begins 1-window 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 3-31.

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 3-32.

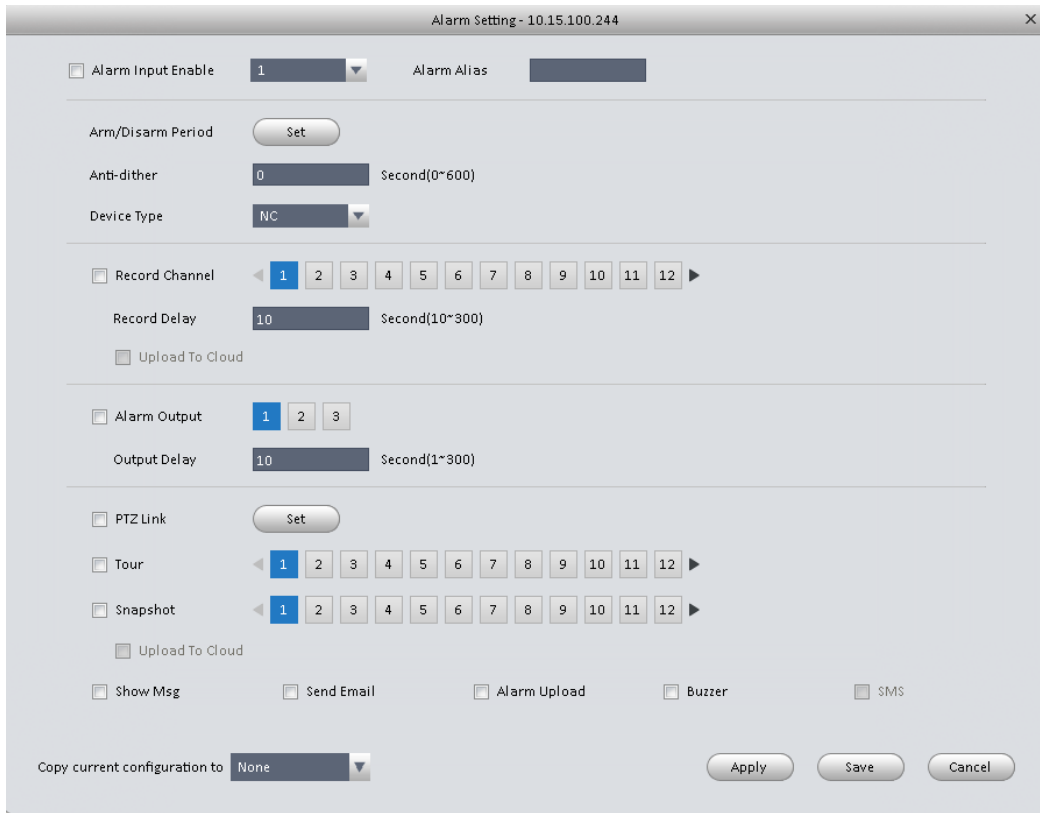


Figure 3-32

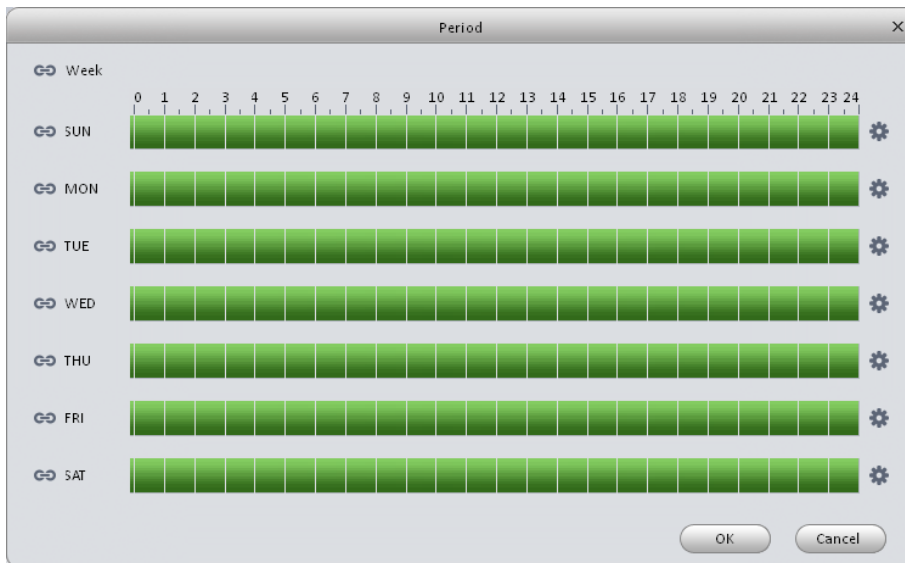


Figure 3-33

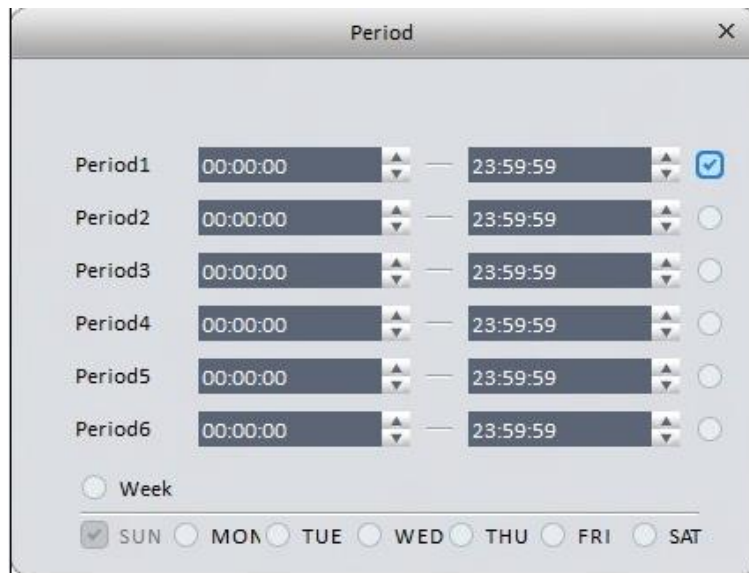


Figure 3-34

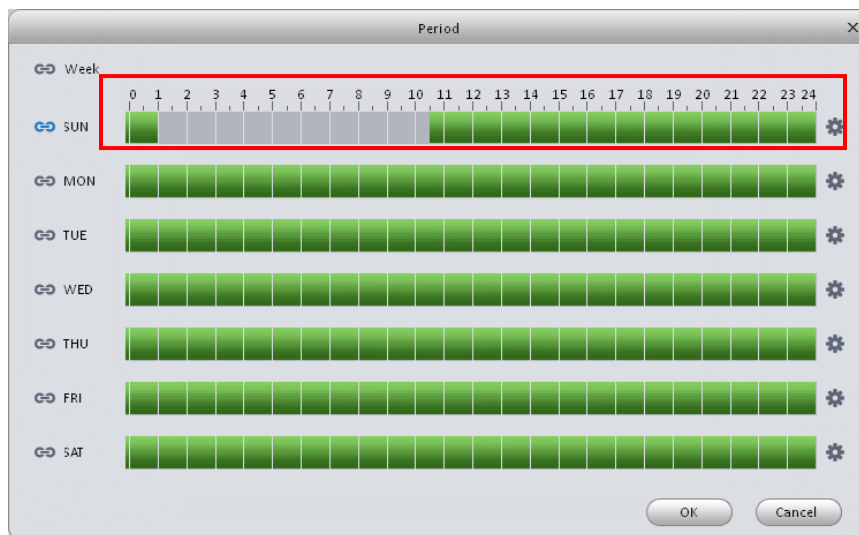


Figure 3-35

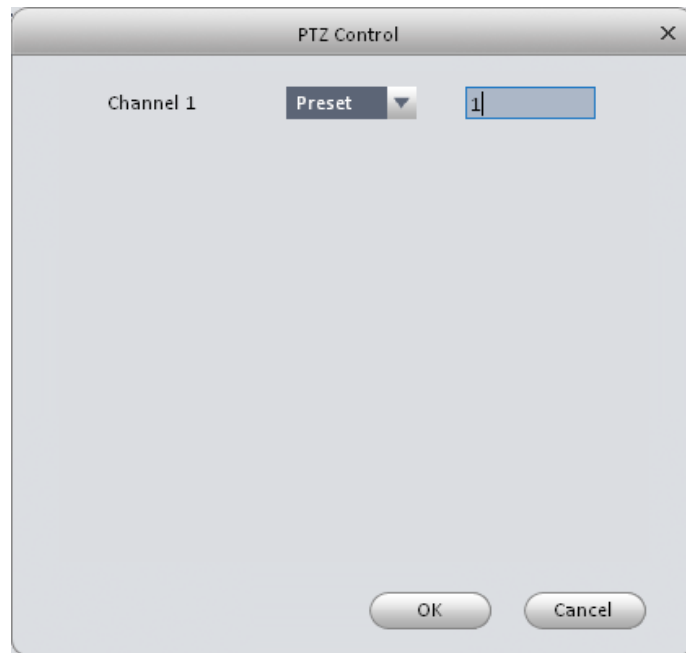



Figure 3-36

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 3-33. There are six periods in one day. You can click  to set (Figure 3-34) or use mouse to draw the corresponding period on the time bar directly (Figure 3-35). 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	If you select this parameter, then you perform local alarm recording to this channel. Please note you need to select auto record in Record-> record control
Record Delay	Means when alarm link ends, record delay for a certain period of time before stop.
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.

Parameter	Function
Show msg	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.
Snapshot	If you select this parameter, then the channel is config with alarm snapshot function.

3.6.2.3 Abnormality

It includes six statuses: No device, no space, device error, net offline, IP conflict and MAC conflict. See Figure 3-37 through Figure 3-42.

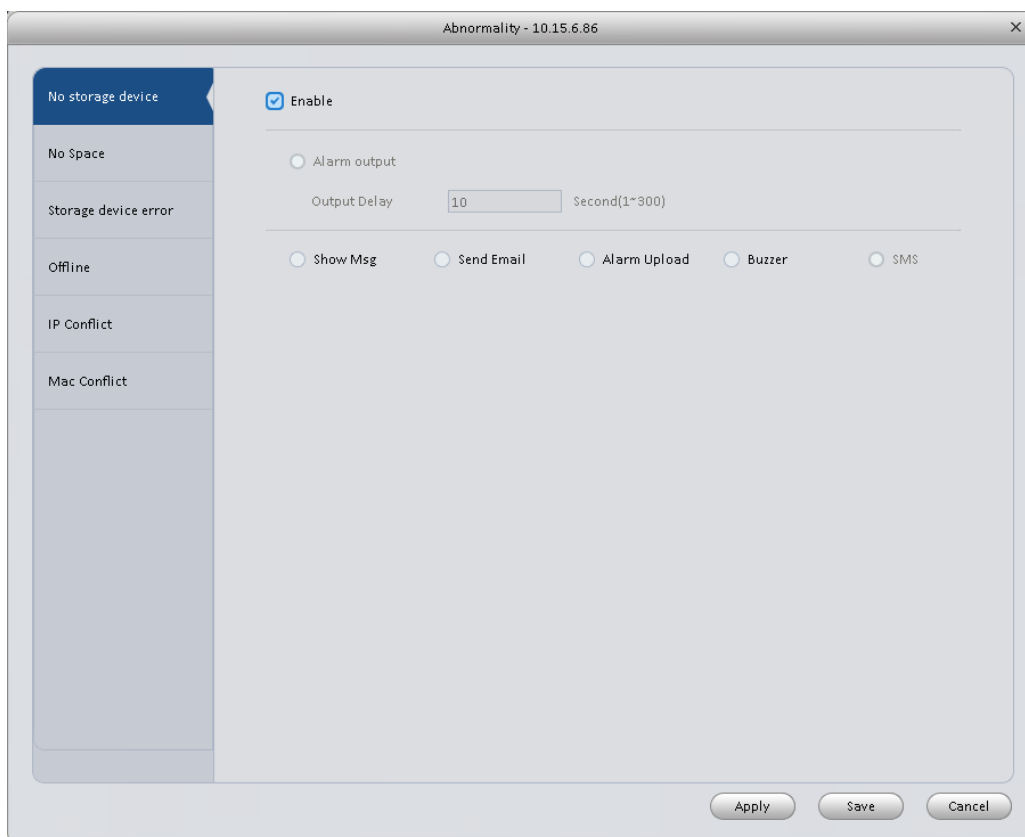


Figure 3-37

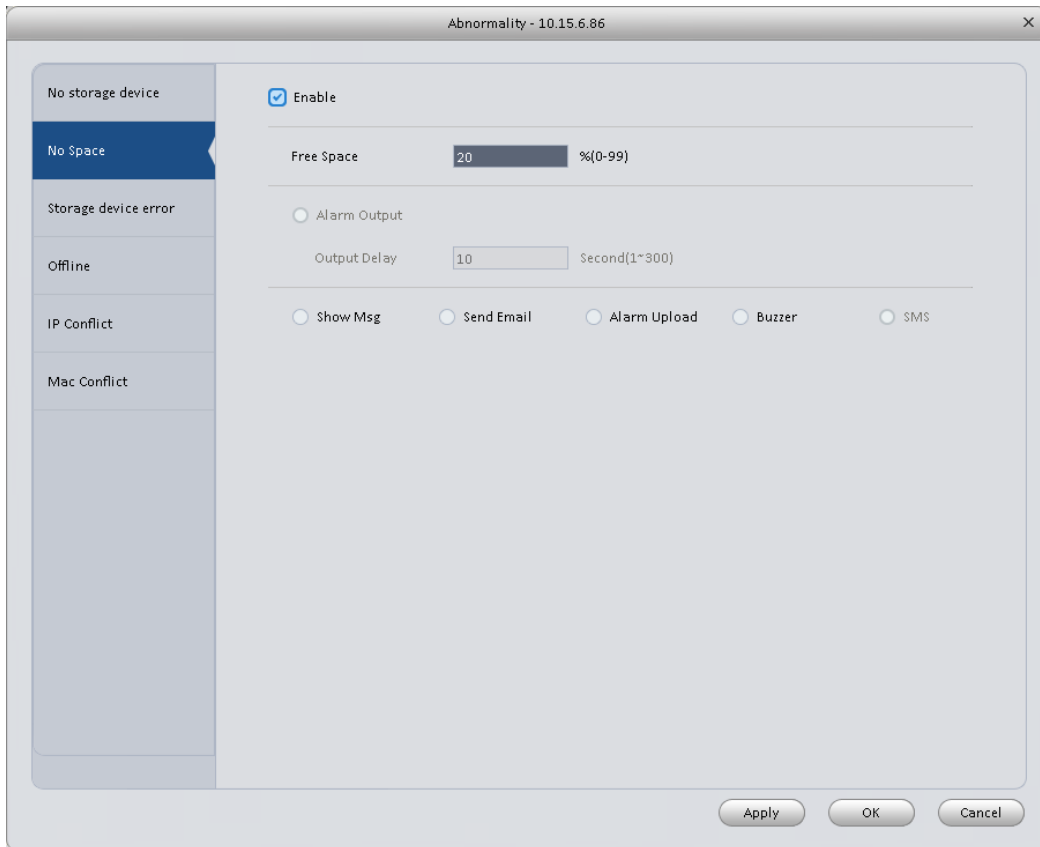


Figure 3-38

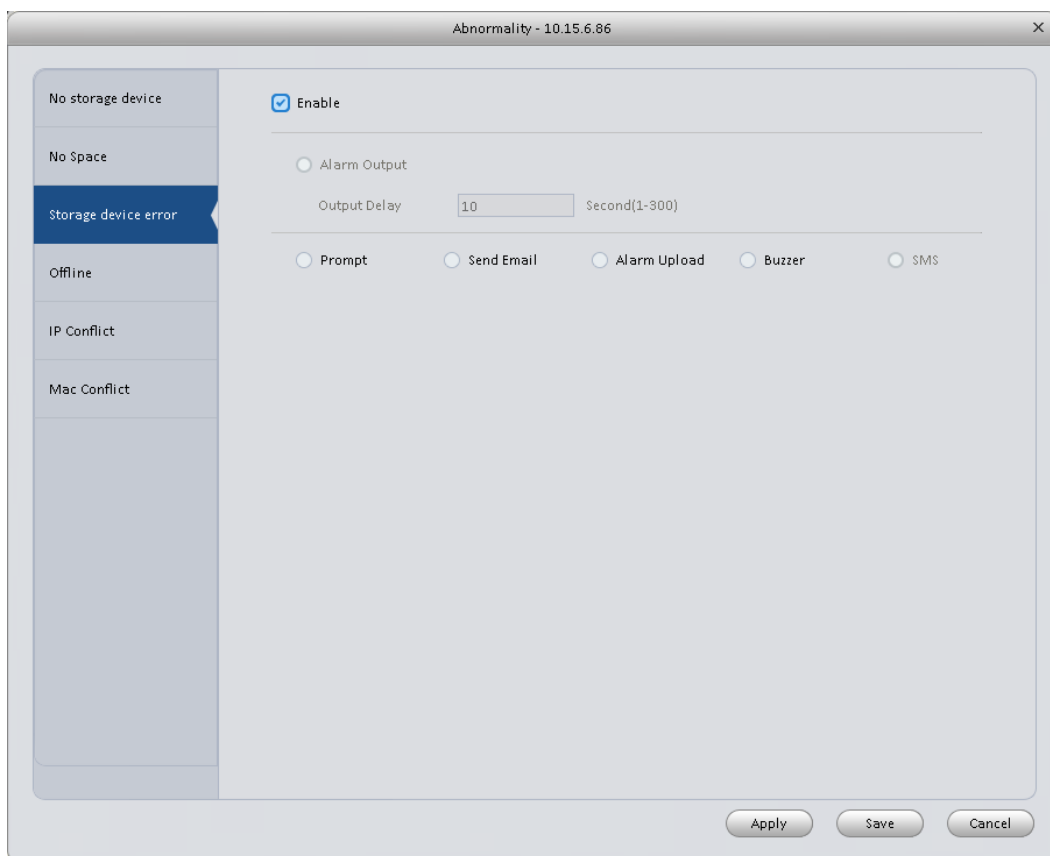


Figure 3-39

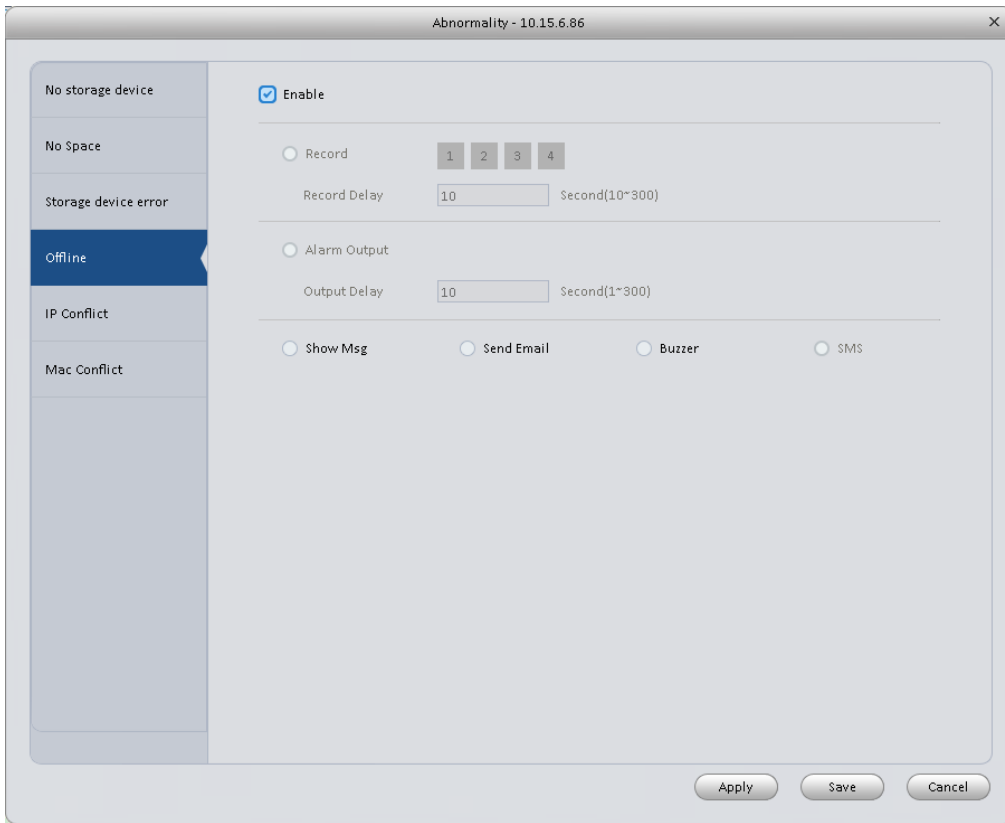


Figure 3-40

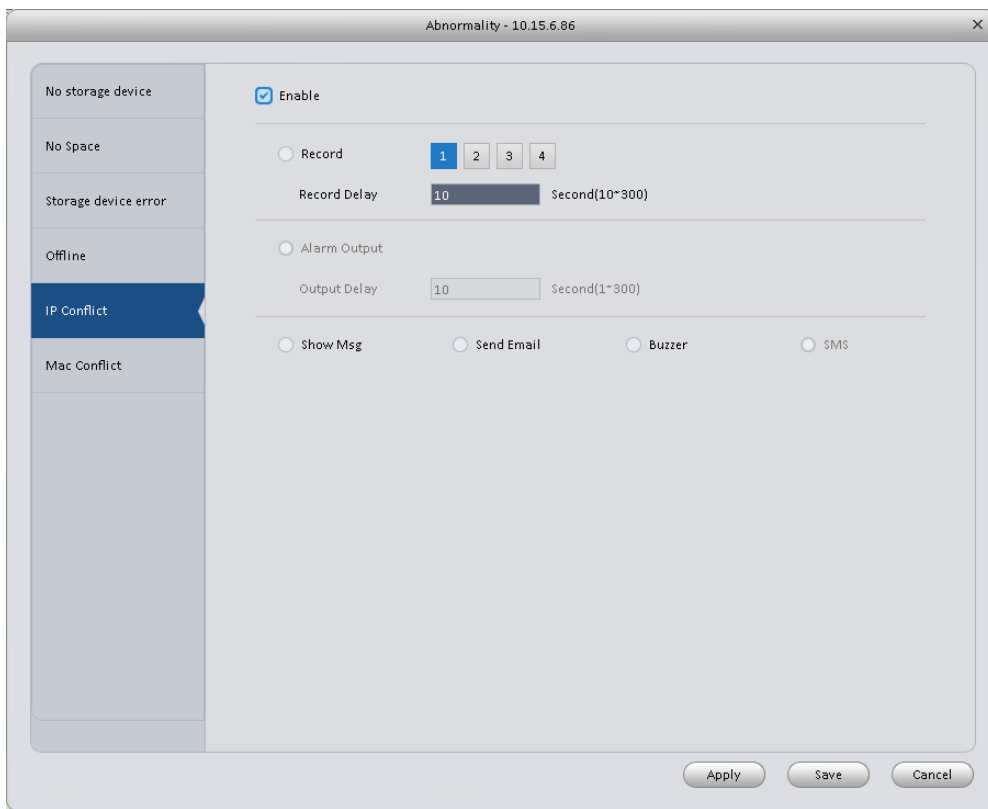


Figure 3-41

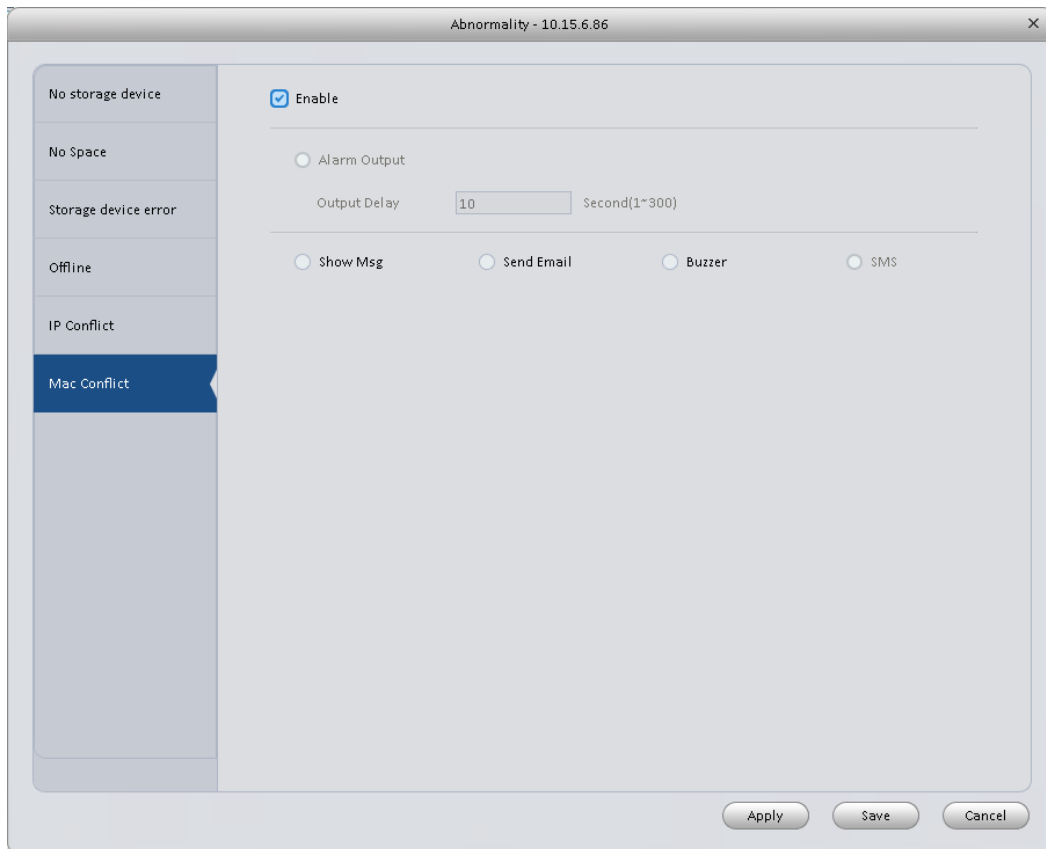


Figure 3-42

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 delay	The alarm output can delay for the specified time after an alarm stops.
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 Smart Config

SmartPSS supports to add SmartIPC and config added intelligent device, including audio detection config and face recognition. After config is complete, you can go to live interface for preview. Please refer to Ch 4.1.1.

See Figure 3-51.

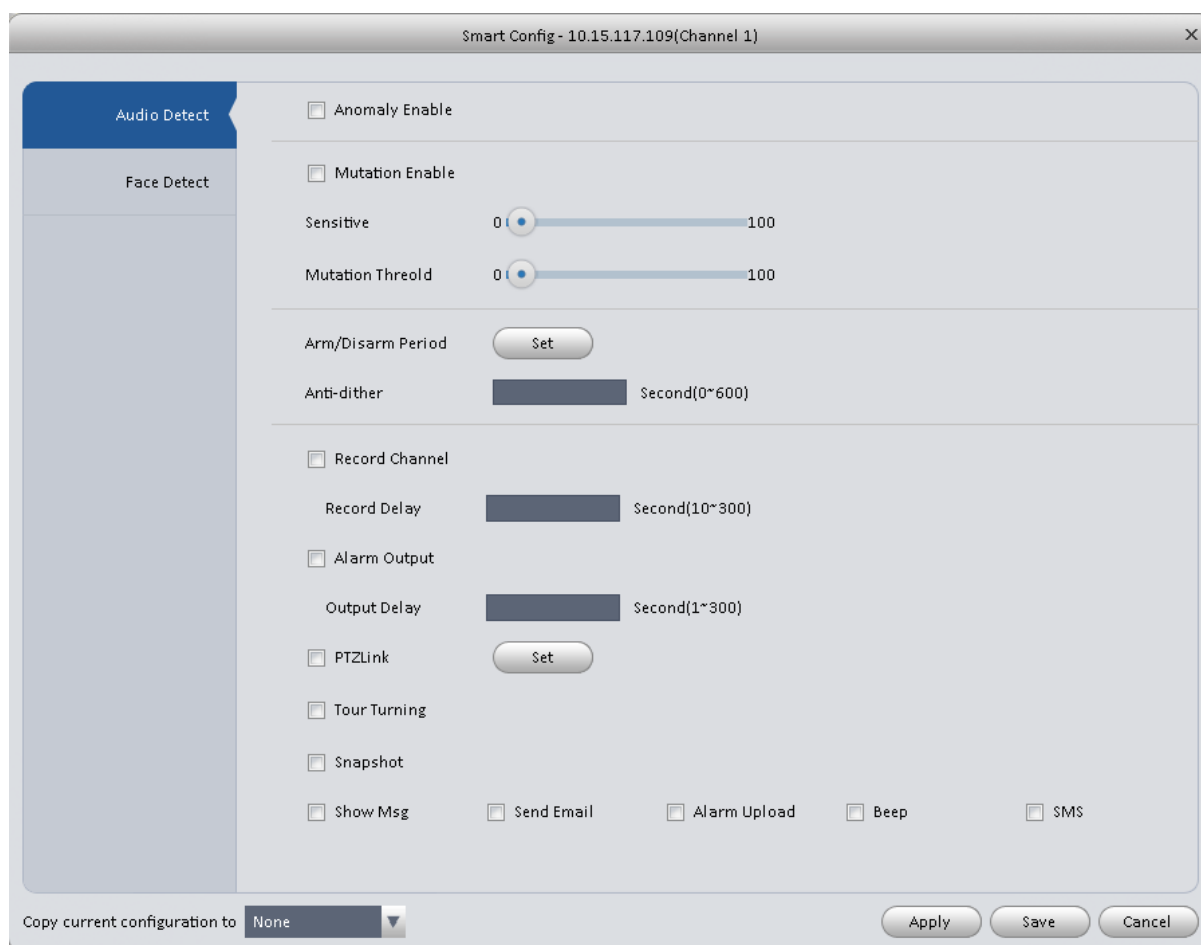


Figure 3-43

Parameter	Note
Abnormal Enable	If enable this parameter, then audio detection alarm is enabled.
Mutation Enable	May config sensitivity and mutation threshold. If select this parameter, then mutation detect is enabled. Sensitivity: 1-100 level adjustable. The smaller the value is, the more input sound volume change exceeds constant environmental sound and is judged as abnormal audio. User shall adjust according to actual environment. Mutation threshold: 1-100 level adjustable. It is used to set filter of environmental sound intensity. If environmental noise is high, then you shall set this value high. Please set and adjust according to actual environment.
Arm/Disarm Period	Set alarm arm/disarm period. Click set pop up Arm/Disarm Period box for setup.

Parameter	Note
Anti-dither	Means only record one motion detection event within the period. Value range 0s~100s.
Record Channel	If select the parameter, then alarm record the channel. Go to “Record >Record Control” and select auto record.
Record Delay	Means when alarm link is end, motion detection record will remain for a period of time before stop.
Alarm Output	If select the parameter, then enable alarm link output port, so when alarm occurs, it can link corresponding alarm output device.
Output Delay	Means when alarm link ends, alarm will remain for a period of time before stop.
Snapshot	If select this parameter, then select this parameter, then this channel config motion detection snapshot function.
Send EMAIL	If select this parameter, then when alarm occurs, it sends Email to user.
Alarm Upload	If select this parameter, then when alarms occurs, alarm will be sent to center.
Beep	If select this parameter, then when alarm occurs, it beeps.
SMS	If select this parameter, then when alarm occurs, user will receive SMS.

Face Detect is shown in Figure 3-52.

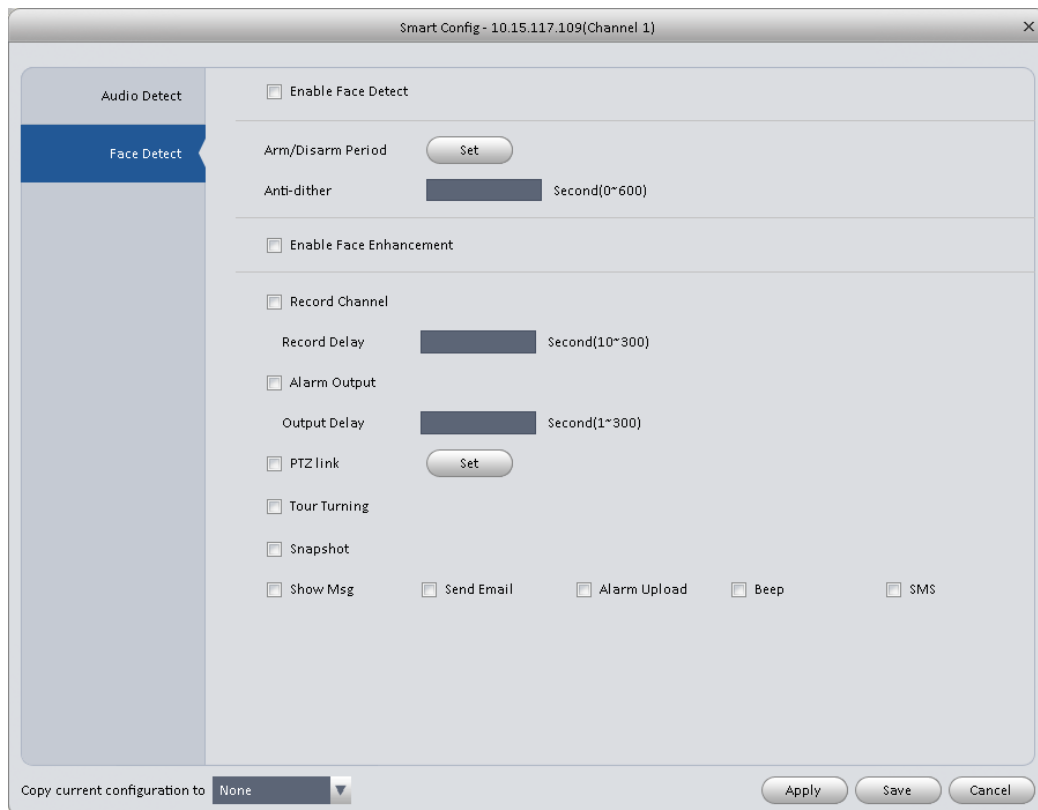


Figure 3-44

Parameter	Note
Enable	If select this parameter, it will link alarm.
Arm/Disarm Period	Set alarm arm/disarm period. Click setup to pop up arm/disarm period box.
Enable Face Enhancement	If select this parameter, then it enable dynamic trick.
Record Channel	If select this parameter, then the channel has record of alarm. Go to "Record > Record Control" and select "auto" record.
Record Delay	Means when alarm link ends, motion detection delays for a period of time.
Alarm Output	If select this parameter, then enable alarm link output port, when alarm occurs, may link alarm output device.
Output Delay	Means when alarm link ends, alarm delays for a period of time.
Snapshot	If select this parameter, then it configures dynamic snapshot function for this channel.
Send EMAIL	If select this parameter, then when alarm occurs, it send Email to user.
Alarm Upload	If select this parameter, then when alarms occurs, alarm will be sent to center.
Beep	If select this parameter, then when alarm occurs, it beeps.
SMS	If select this parameter, then when alarm occurs, user will receive SMS.

3.6.4 Record/Storage

3.6.4.1 Schedule

Record setup has record plan and record control.

- Record plan (schedule): Record during set period.
- Record control: Select mode of record.

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 3-45.

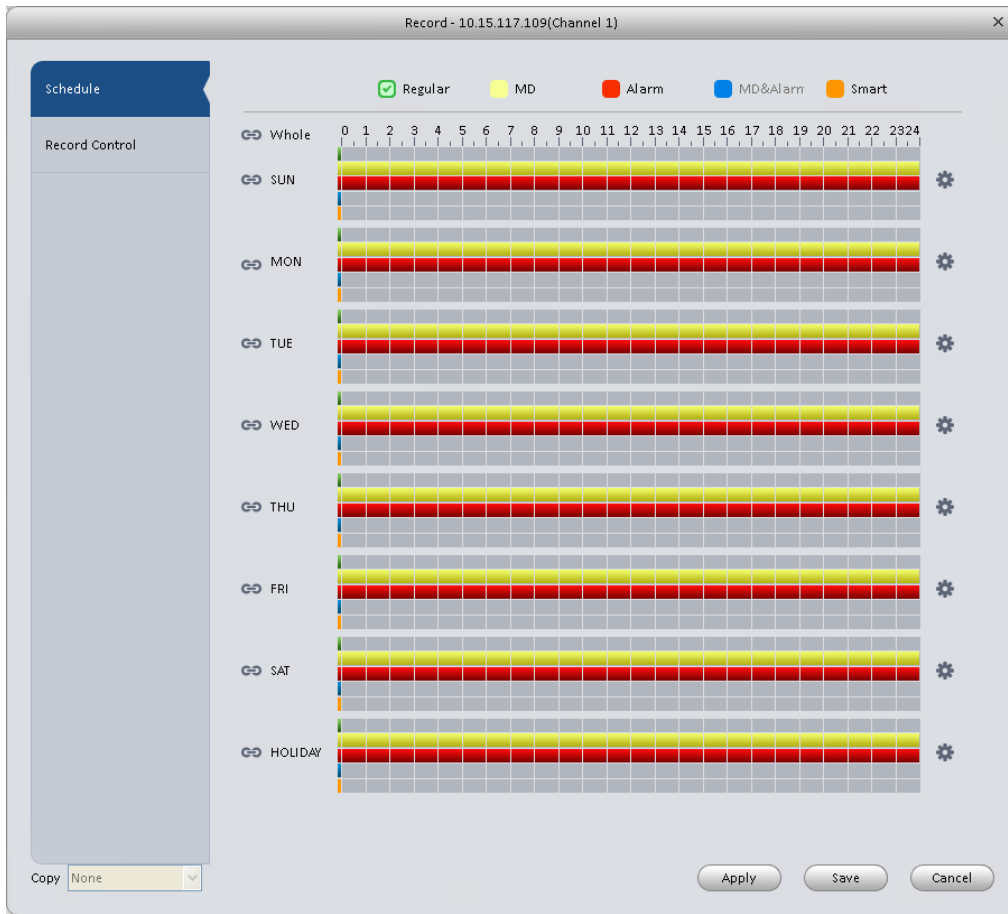



Figure 3-45

- 2) Click  button after corresponding date, you can see an interface shown as below. See Figure 3-46.

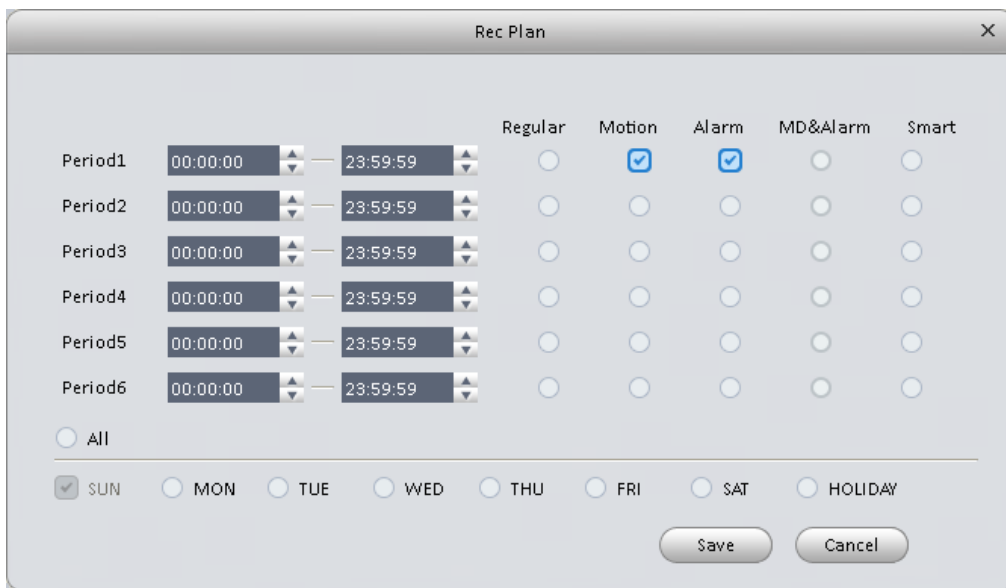


Figure 3-46

- 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 3-47.

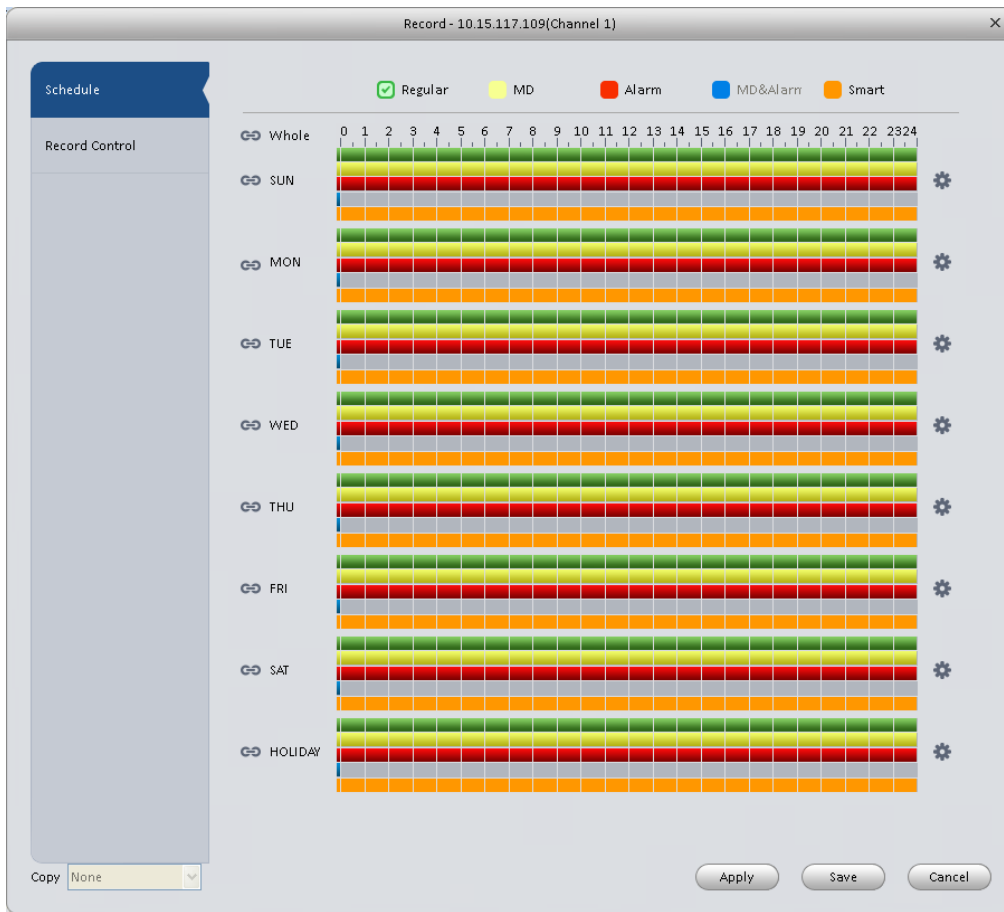


Figure 3-47

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.
- Orange color stands for smart alarm record.

Tips

Choose the channel you want, then click save button to copy current setup

3.6.4.1.1 Record Control

It is for you to set record control mode. See Figure 3-48.

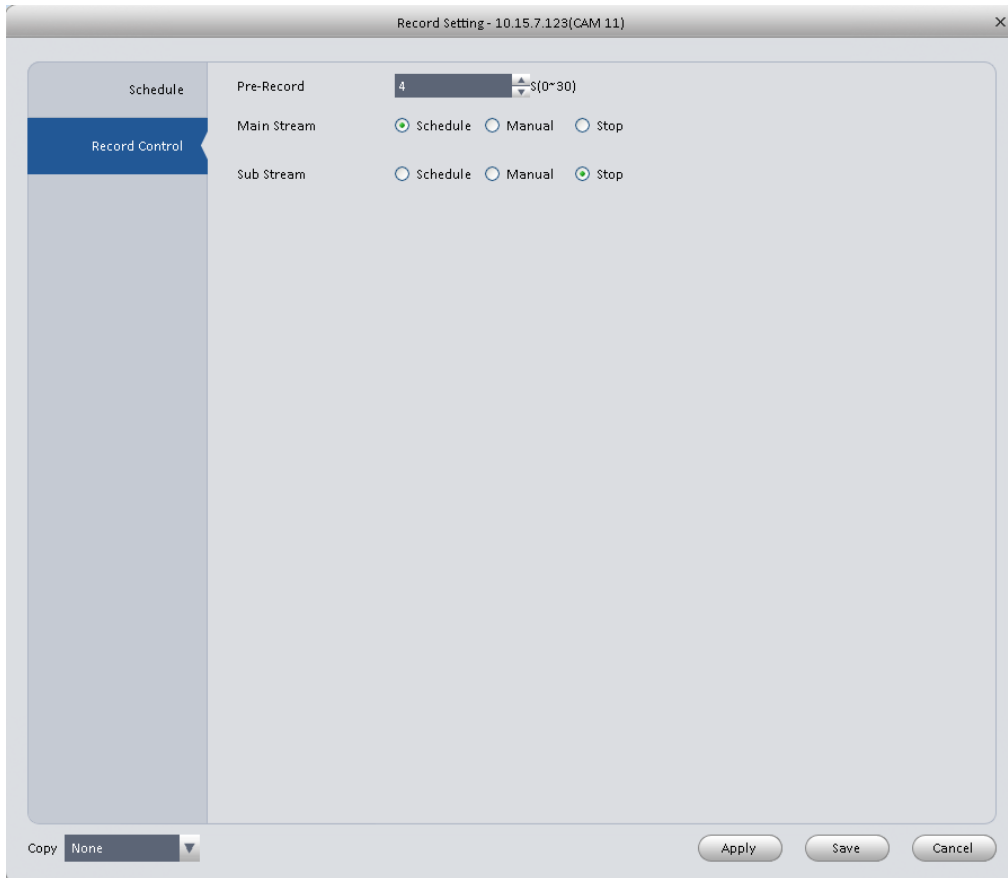


Figure 3-48

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.

3.6.4.2 Disk

3.6.4.2.1 Local Store

The local interface is shown as in Figure 3-49. Here you can save data to local SD card or HDD and meanwhile view health status of HDD.

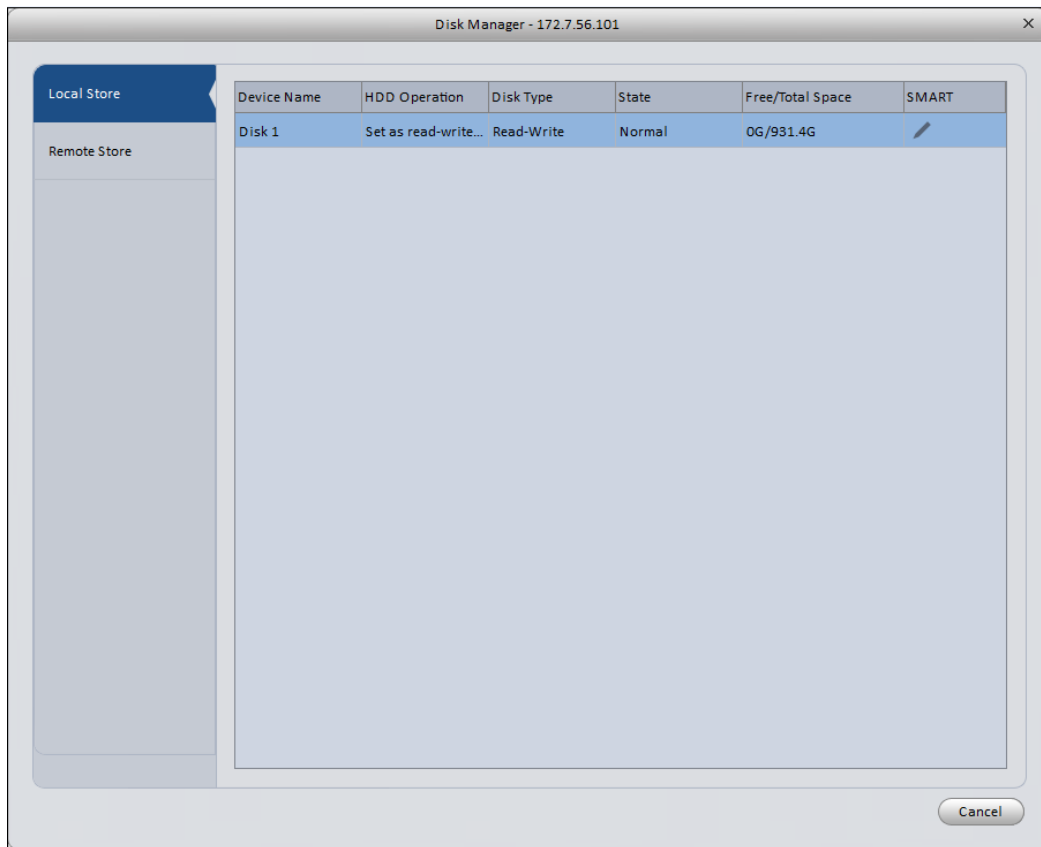


Figure 3-49

3.6.4.2.2 Remote store

It is for you to upload data to a PC via FTP. See Figure 3-50.

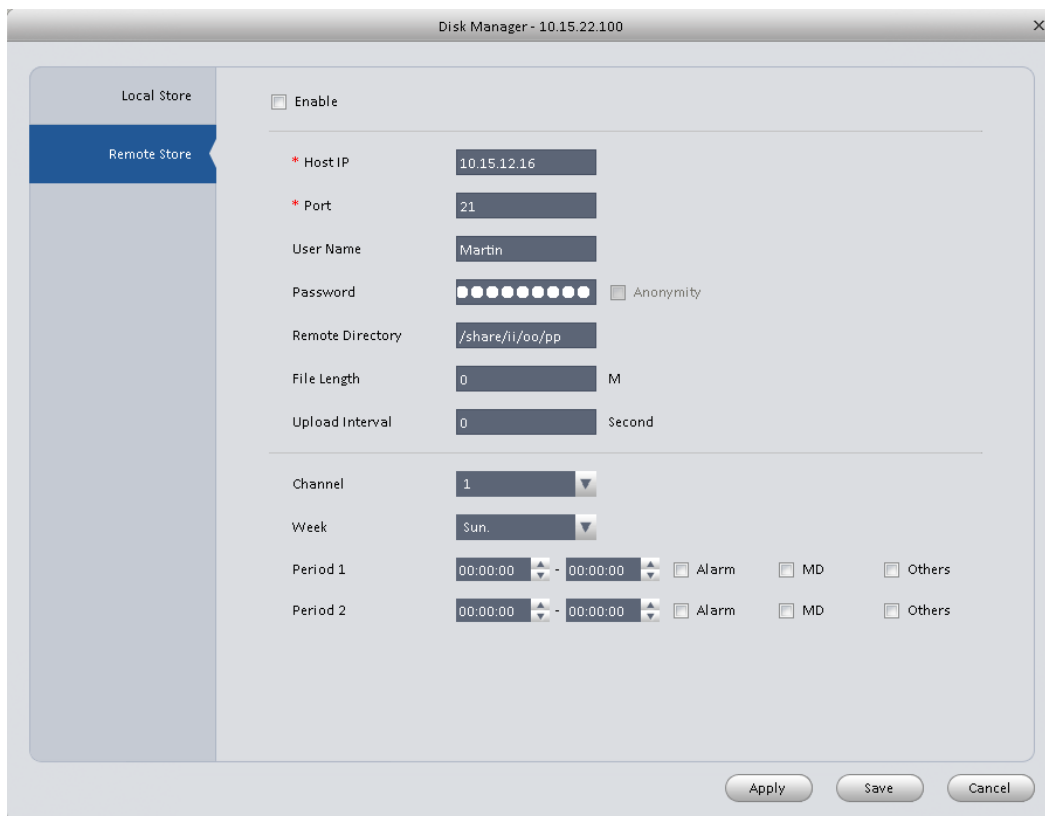


Figure 3-50

3.6.5 Maintenance

3.6.5.1 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 3-51.

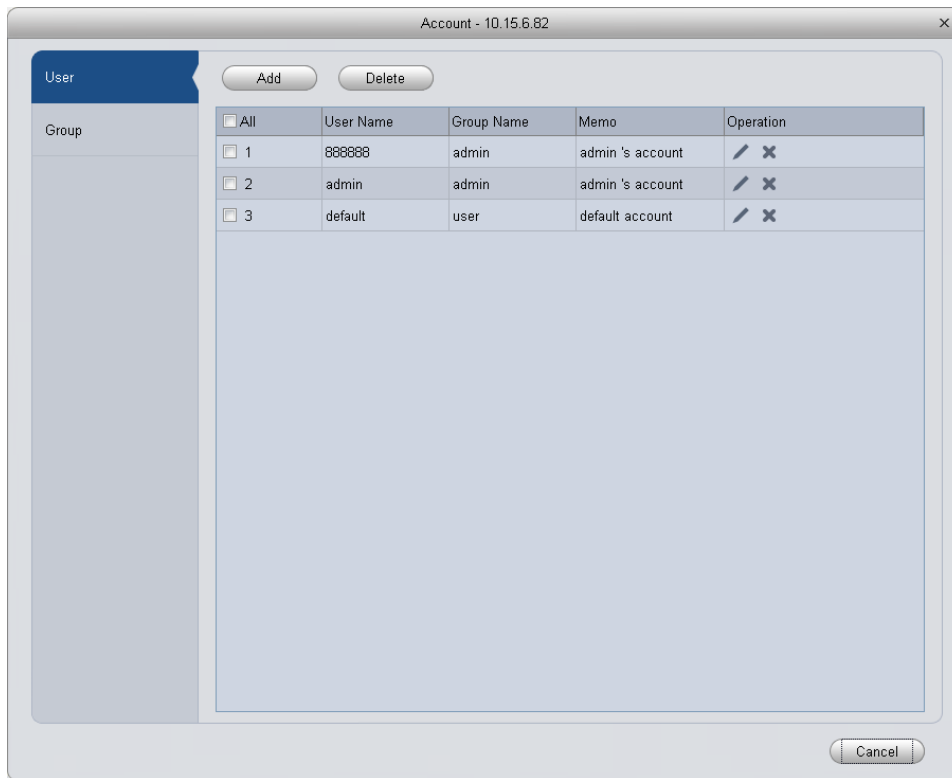


Figure 3-51

Click Add button, you can see system pops up the following interface. See Figure 3-52. Please input a group name and then select corresponding rights, input some note information for your reference if necessary. Click OK button to exit.

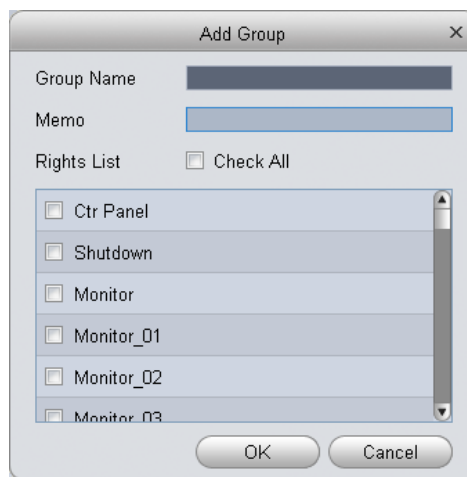


Figure 3-52

Go to the User interface, here you can add/remove user and modify user name. See Figure 3-53.

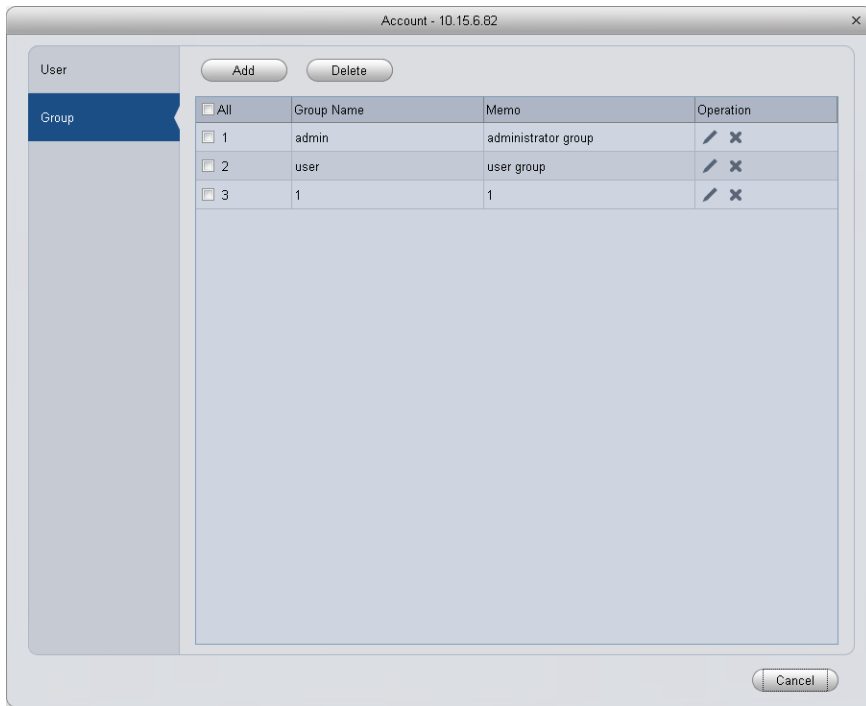


Figure 3-53

Click Add button, you can see the following interface. See Figure 3-54. 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.

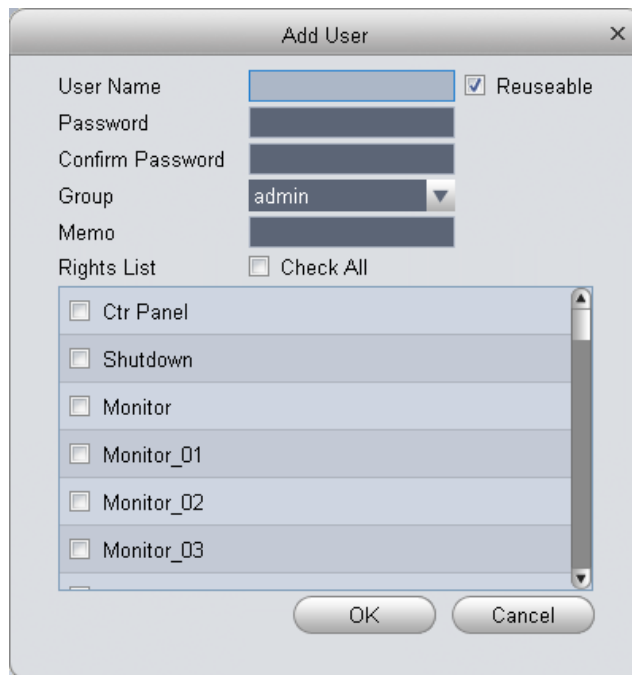


Figure 3-54

Note:

Access controller username and password are fixed, and password is 123456.

3.6.5.2 Maintenance

3.6.5.2.1 Local Setup

Here you can set system time, date format, record period and etc. See Figure 3-55.

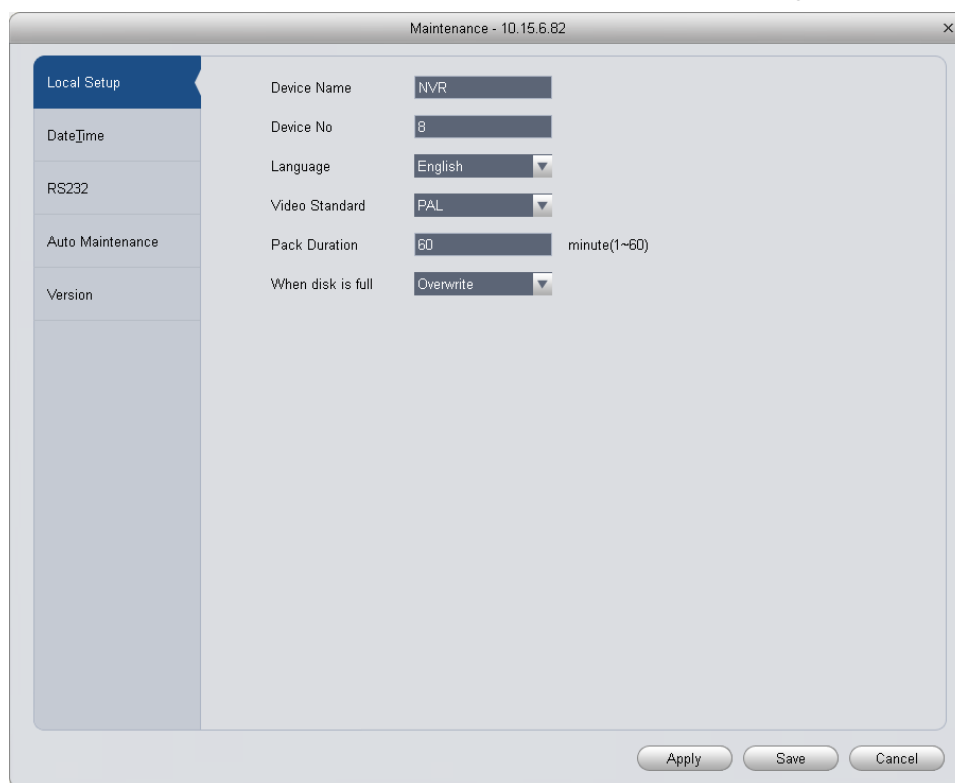


Figure 3-55

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. <ul style="list-style-type: none">• 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	Here is for you to specify record duration.

duration	
----------	--

3.6.5.2.2 Date&Time

The date and time interface is shown as in Figure 3-56.

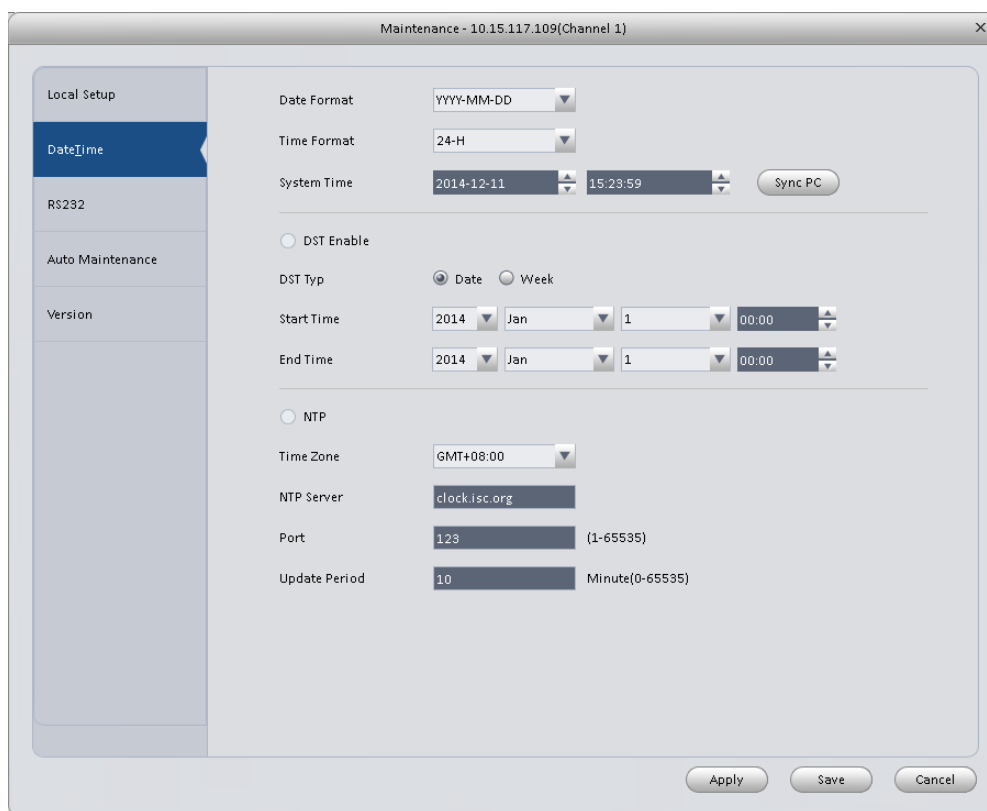


Figure 3-56

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.
---------------	---

3.6.5.2.3 RS232

The RS232 interface is shown as in Figure 3-57.

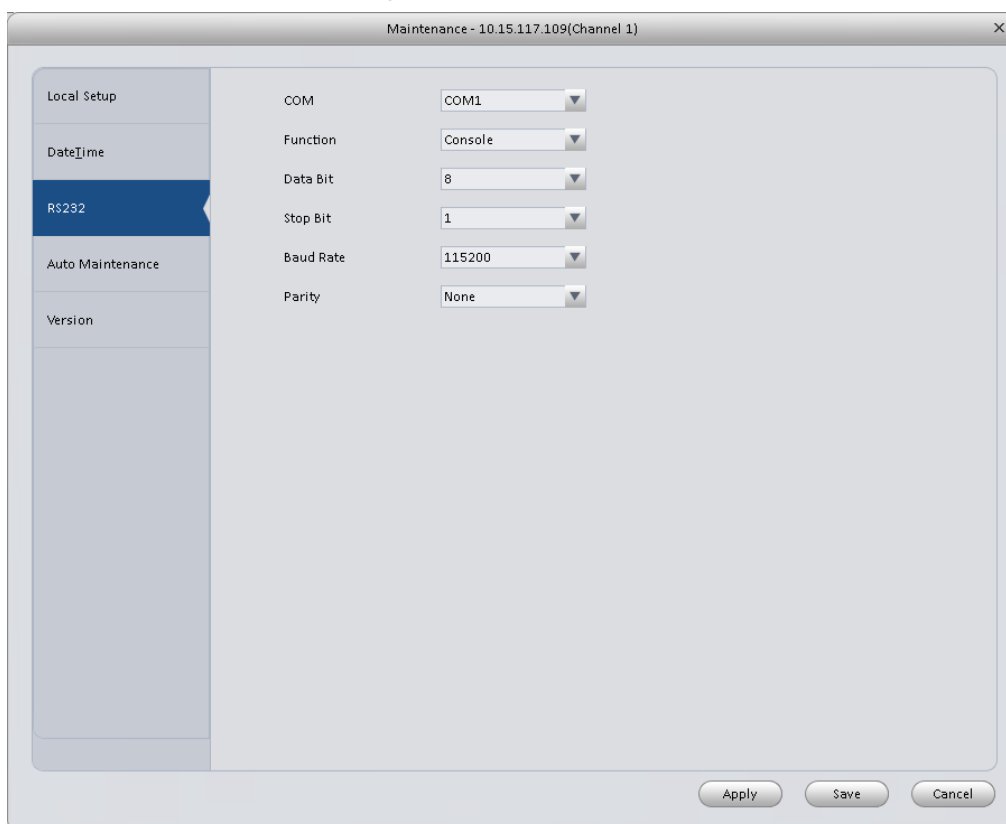


Figure 3-57

Please refer to the following sheet for detailed information.

Parameter	Function
COM	You can select from the dropdown list.
Function	<p>There are various devices for you to select.</p> <ul style="list-style-type: none"> ● 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.

3.6.5.2.4 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 3-58.

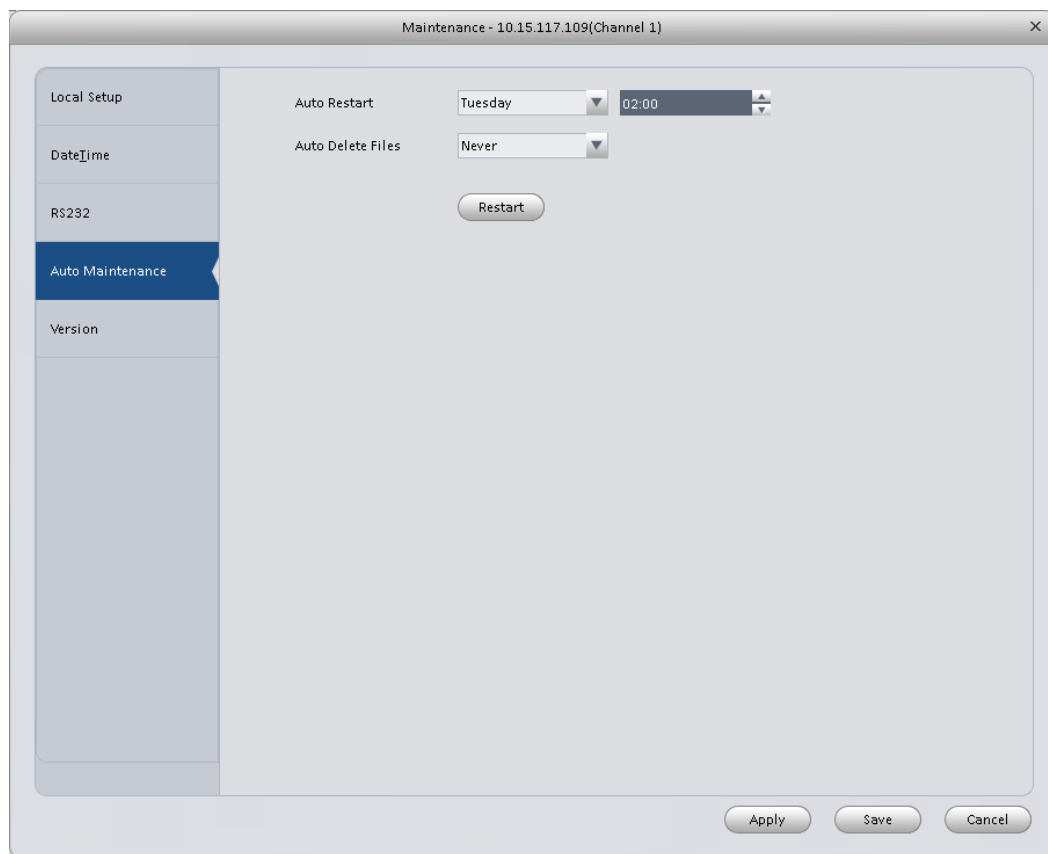


Figure 3-58

3.6.5.2.5 Version

Version interface is shown as below.

3.6.5.2.6 Upgrade

Upgrade program.

3.6.5.3 WEB

Click it to go to the WEB of the device. See Figure 3-59. The following figure is for reference only.

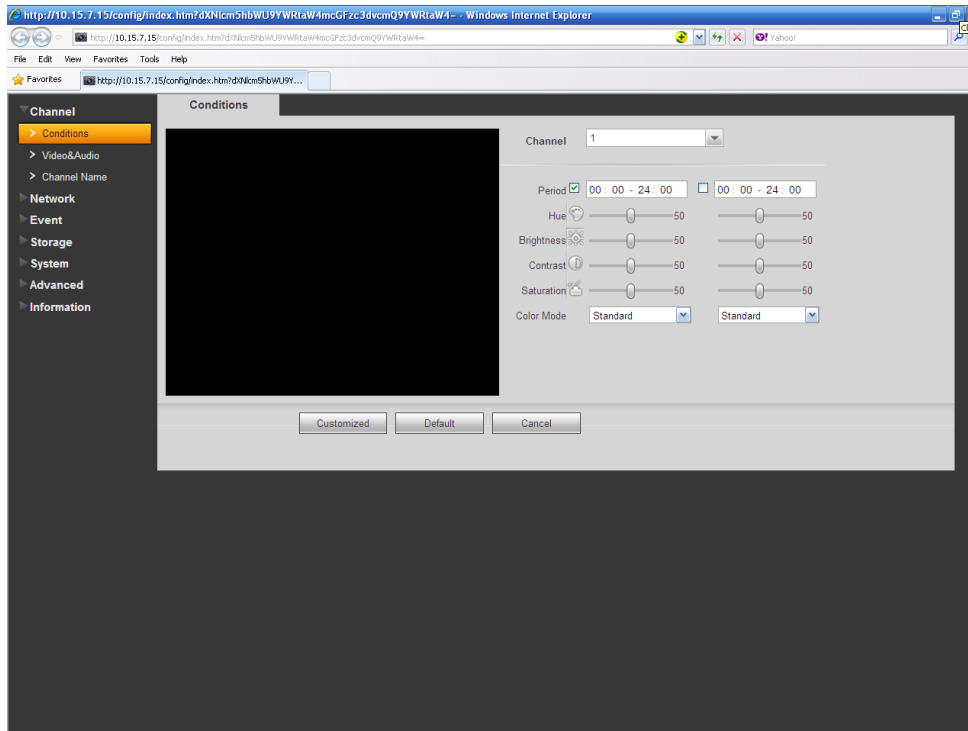



Figure 3-59

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 3-60.

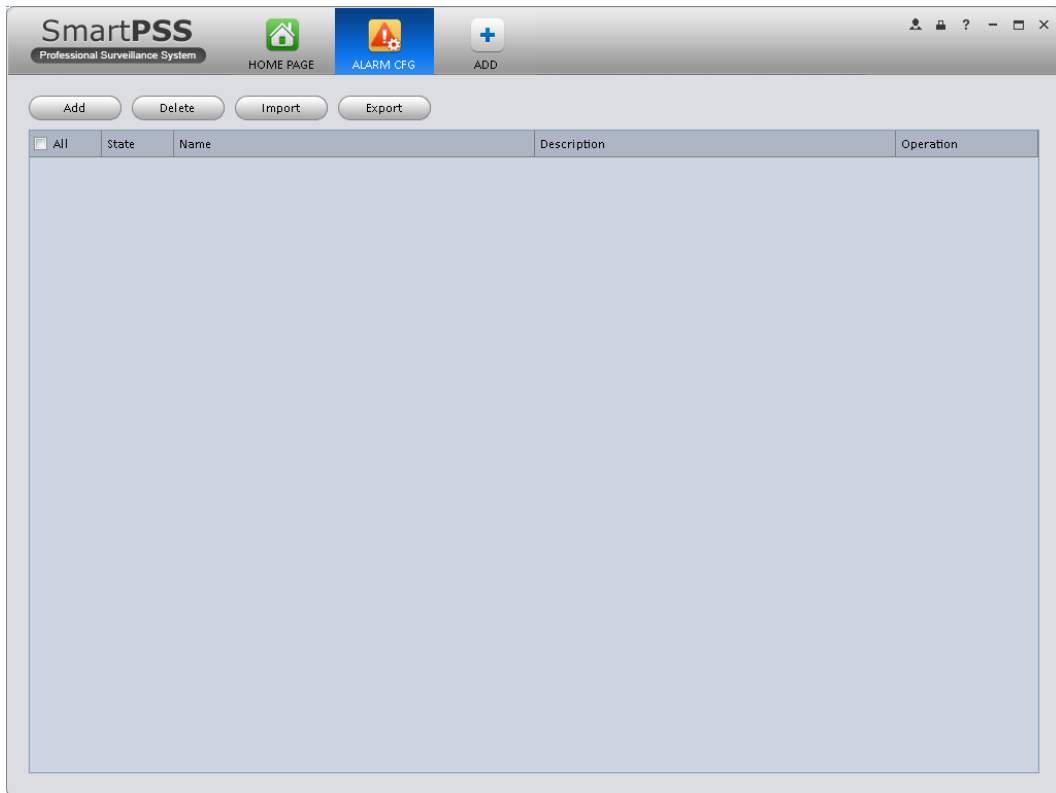



Figure 3-60

2) Set alarm sources.

a) Click  button in Figure 3-60 , system goes to alarm sources setup interface. See Figure 3-61.

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

“Alarm Type” includes video loss, camera masking, motion detection, audio abnormal and etc.

- 4) 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.

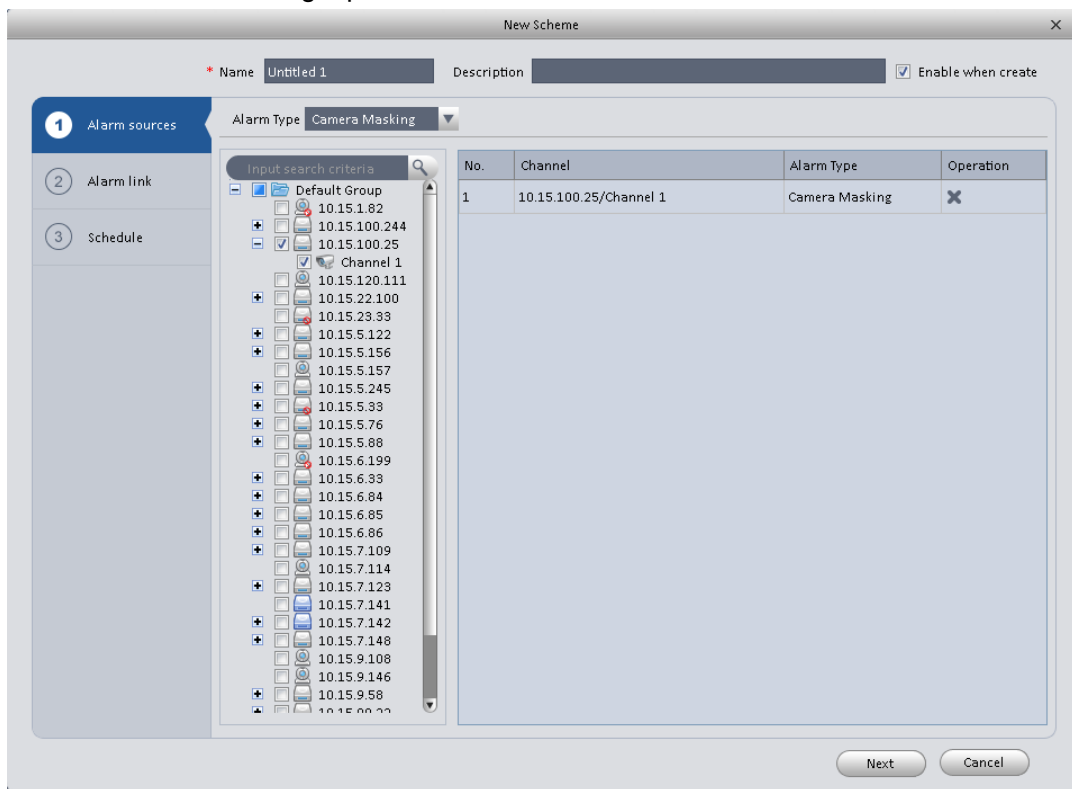


Figure 3-61

- 5) Click Alarm Link on the left pane or click next button in Figure 3-61 , you can go to the following interface. Please check the trigger channel in Figure 3-62 and alarm output channel in Figure 3-63.

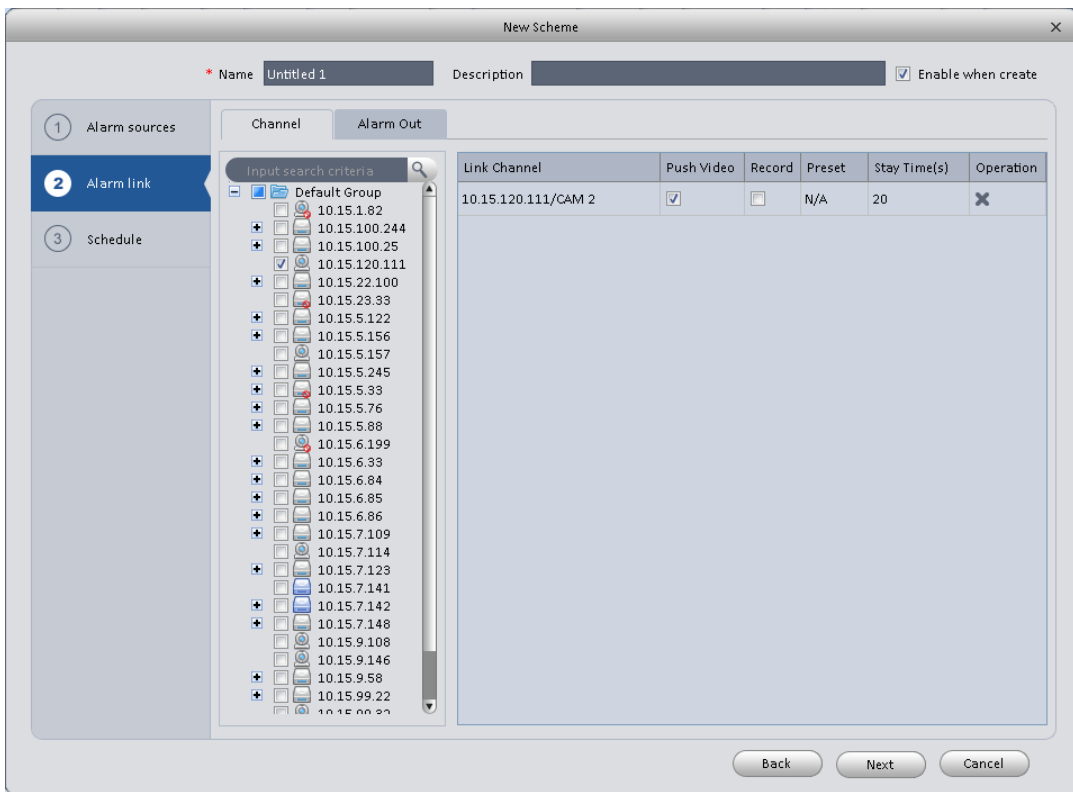


Figure 3-62

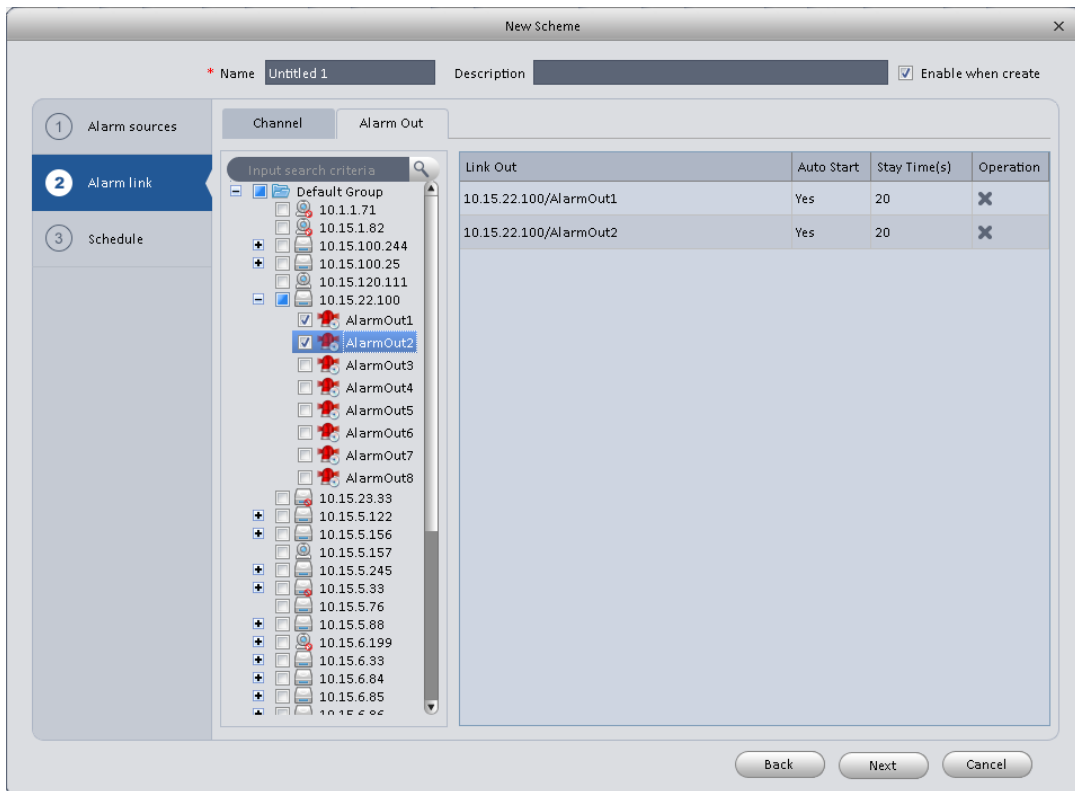


Figure 3-63

- Click Period button on the left pane or click next button in Figure 3-62, you can go to the following interface. See Figure 3-64.

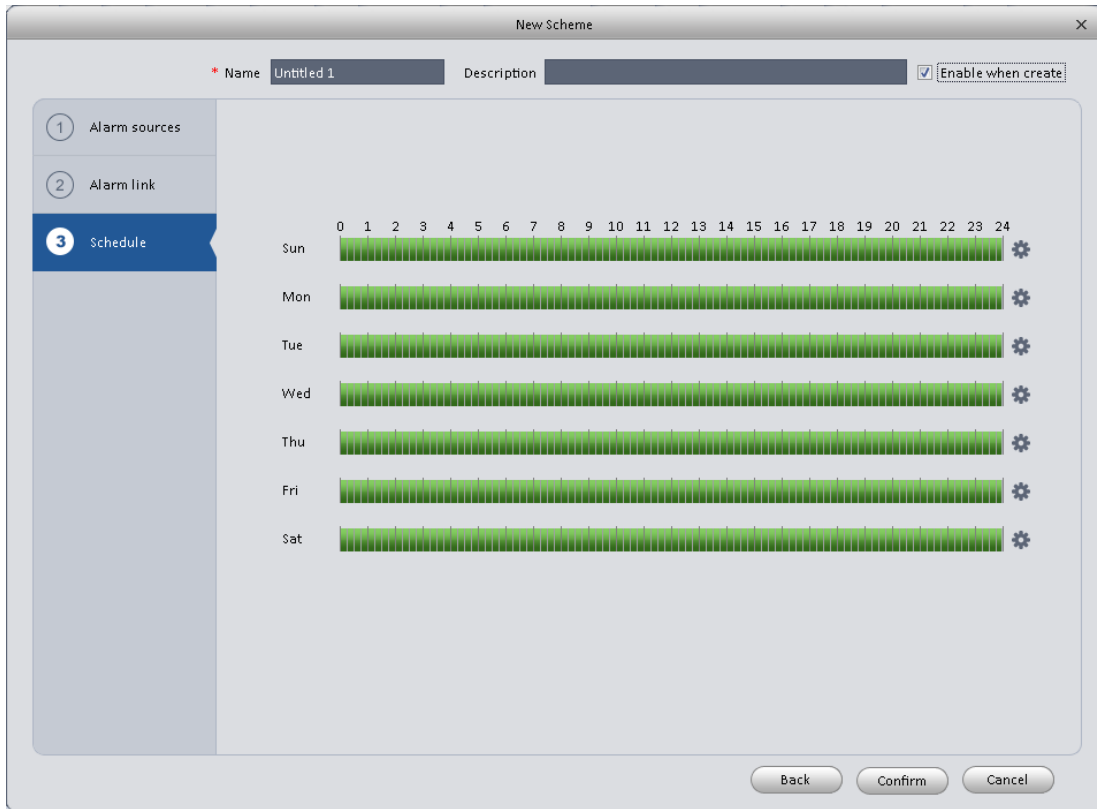



Figure 3-64

Click  after a date to set alarm activation period. There are six periods in one day. See Figure 3-65. Click OK button to exit.

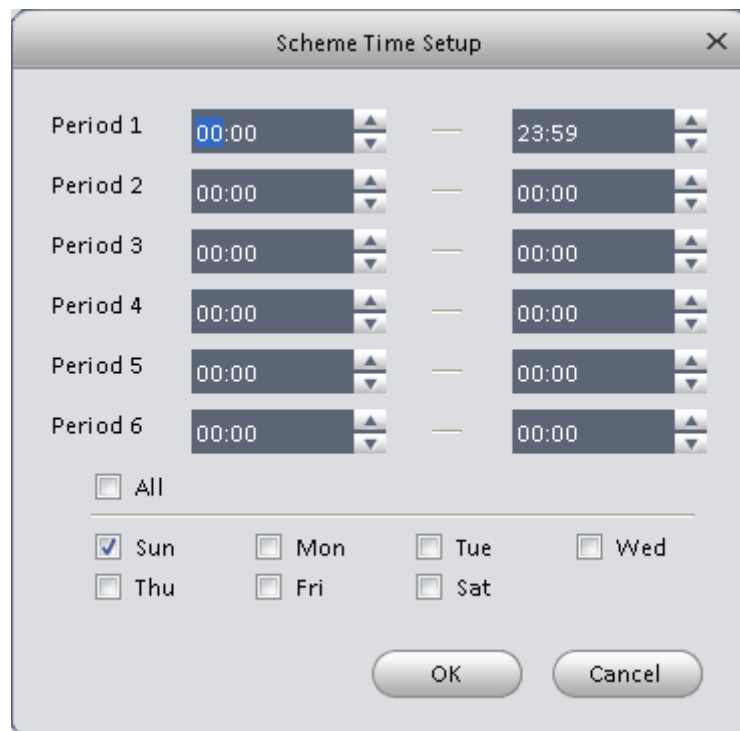


Figure 3-65

a) Click OK button, you can view the scheme information on the alarm setup interface. See Figure 3-66.

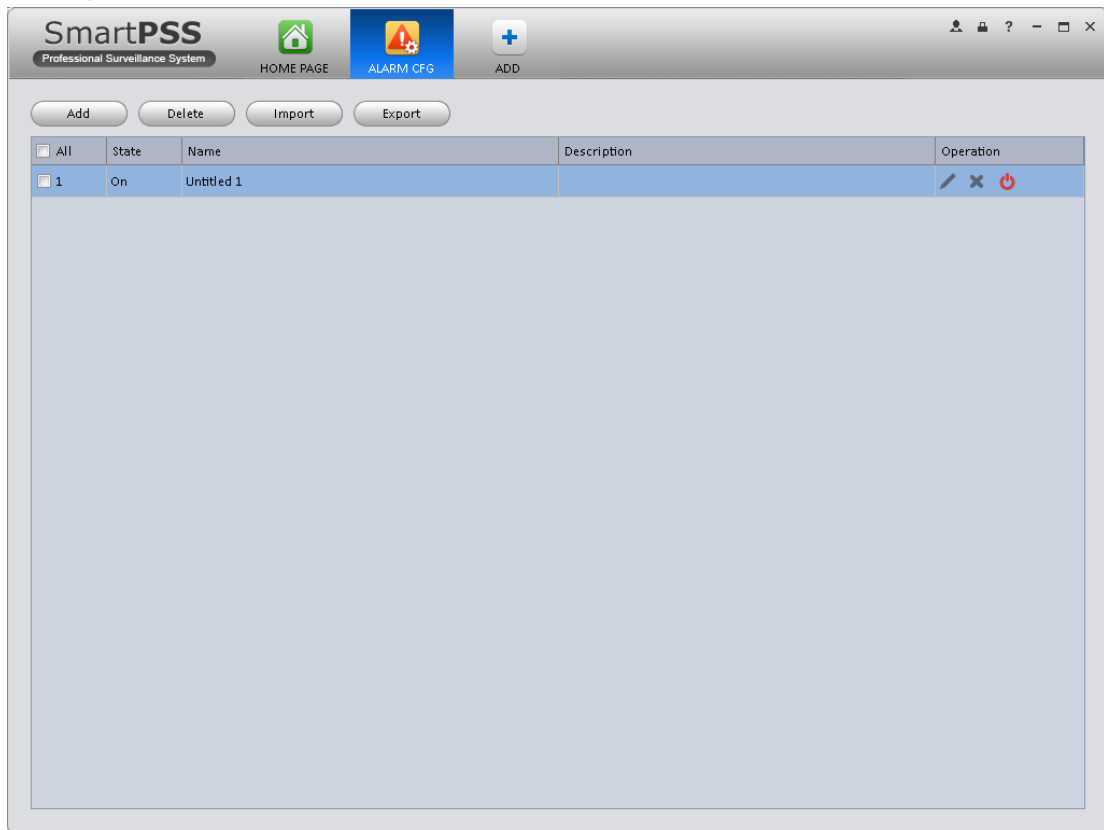


Figure 3-66

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.
- : Add scheme.
- : Select one or more scheme(s) and then click this button to delete.
- : Import scheme information.
- : Export scheme information.

3.8 Tour & Task

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



- 1) Click icon in the Settings pane, you can go to monitor tour interface.
- 2) Click Add. System pops up add box.
- 3) Input plan name, see Figure 3-67.

A dialog box titled "Manual Add" with a light gray background. It contains two input fields: "Plan Name:" with a single-line text box, and "Description:" with a larger multi-line text area. At the bottom, there are two buttons: "Add" and "Cancel".

Figure 3-67

- 4) Click Add.



- 5) Click button. System shows tour setup interface.
- 6) Input task name, stay time.

- 7) Click at the bottom of the interface to select window amount.

- 8) Drag channel(s) on the right pane to the windows on the left pane. See Figure 3-68.

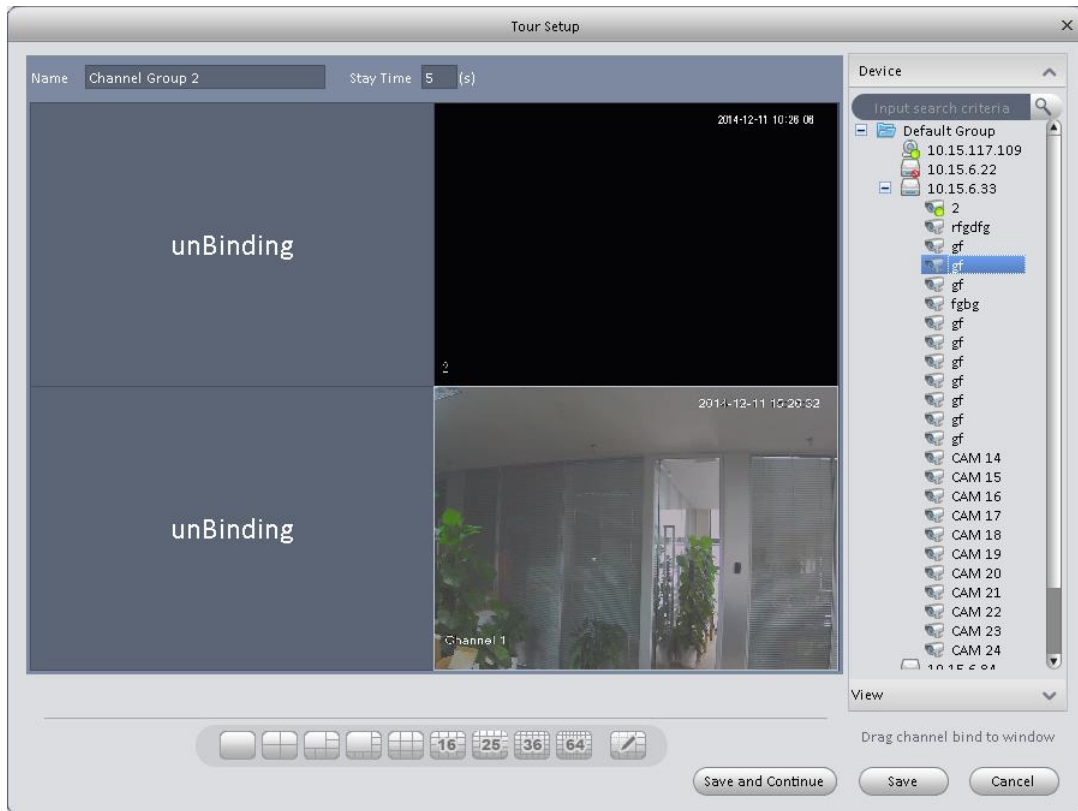
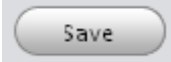
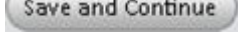


Figure 3-68

- 9) Click  button to save current setup. You also can click  to save current setup and continue to set another. When you complete task setup, see Figure 3-69.

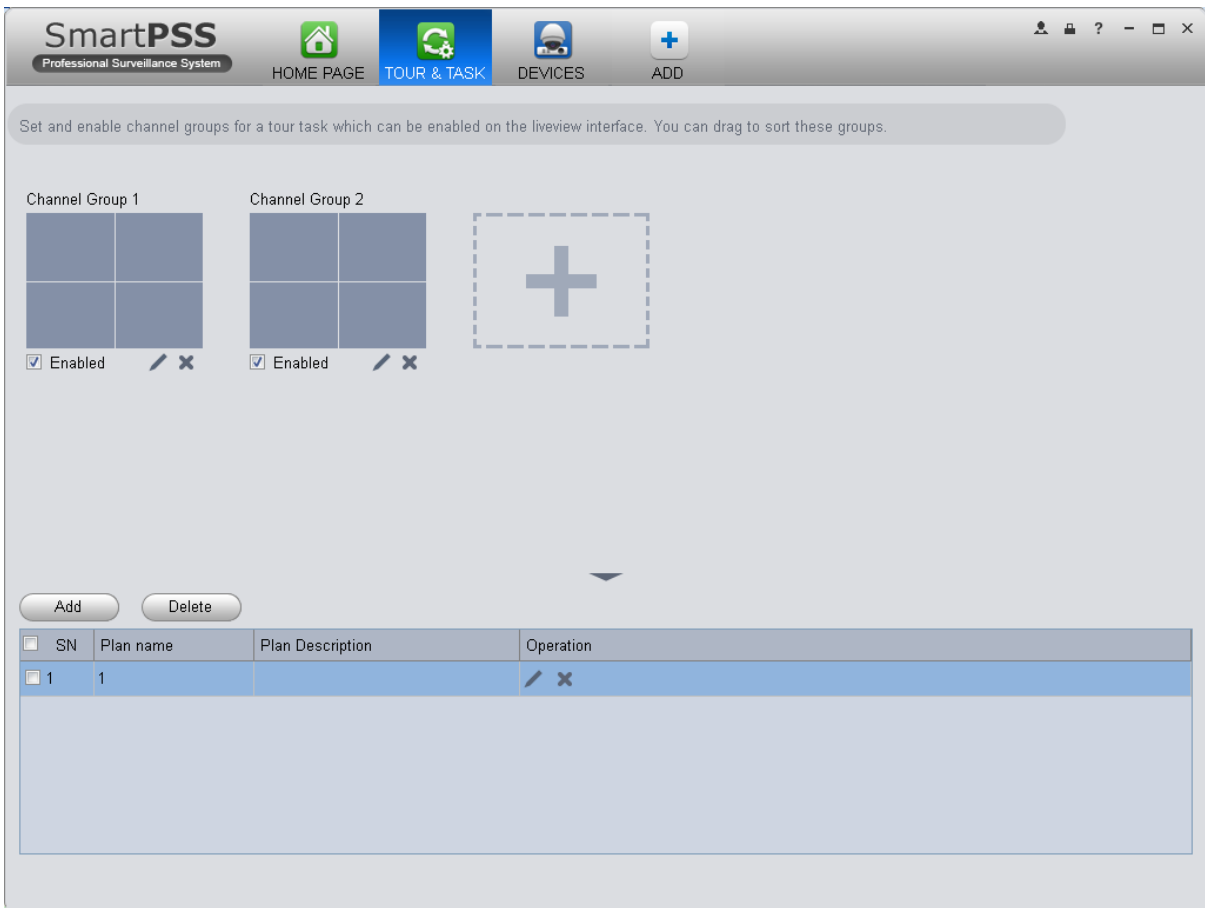


Figure 3-69

In Figure 3-69, you can check the enable button to open current scheme. You can modify and delete current task scheme.

After tour plan is created, click Liveview in Basic area, select tour plan in Liveview interface. Click



at the bottom of the interface to enable the plan.

3.9 PC-NVR

Important

Before you use this function, please make sure you have installed PC-NVR and after you run PC-NVR, you must add it into device management.

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 3-70.

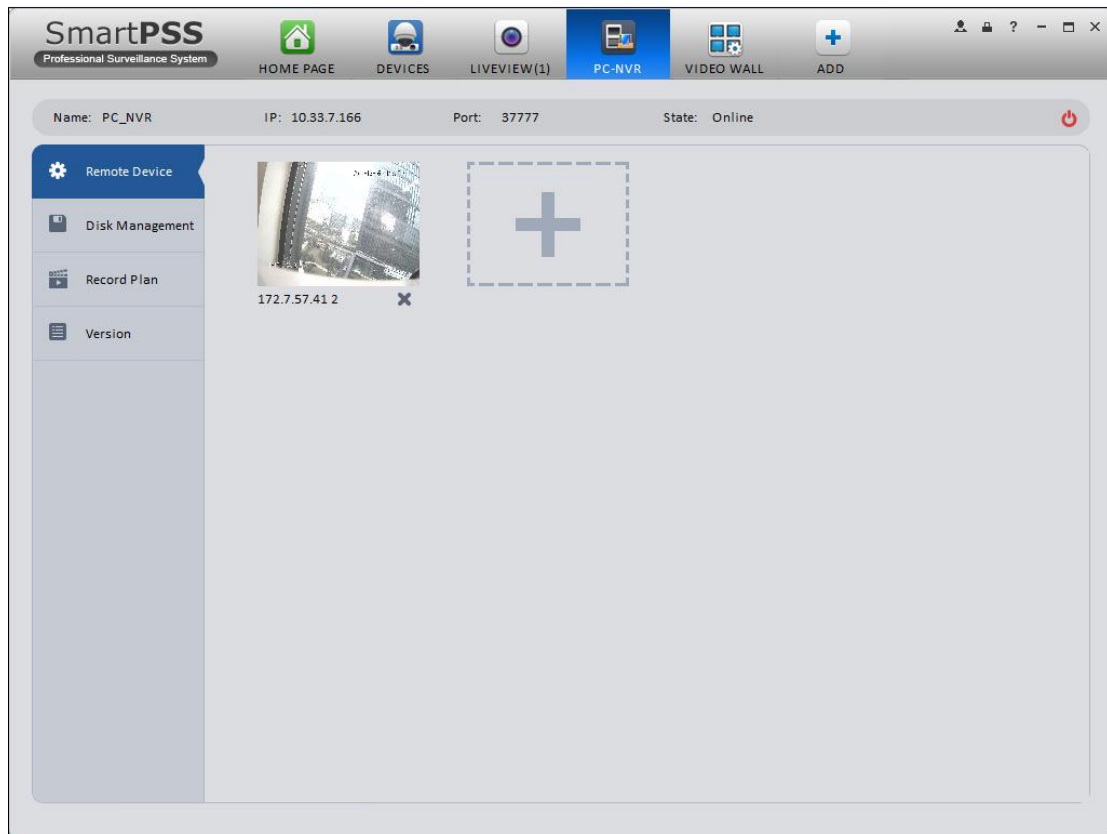



Figure 3-70

2) Remote device



a) Click  button, you can see an interface.

b) Please select a device. See Figure 3-80

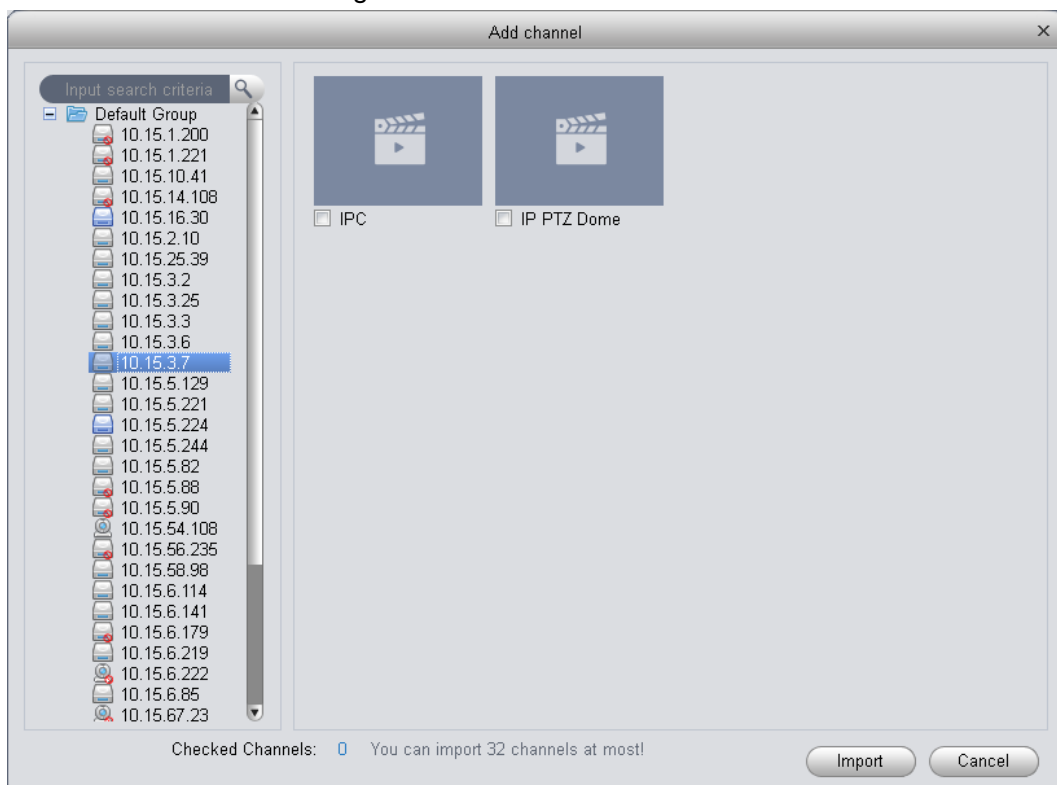



Figure 3-71

- c) check the record channels
 - d) Click Import button.
- 3) Disk manager
- SmartPSS support disk allocation management of PC-NVR.
- Note: Before allocation, make sure the disk has at least 7G in free space.**
- a) In Figure 3-70, click disk manager button on the left pane, you can go to the setup interface.

b) You can select saved disk and input the space then click . See Figure 3-72.

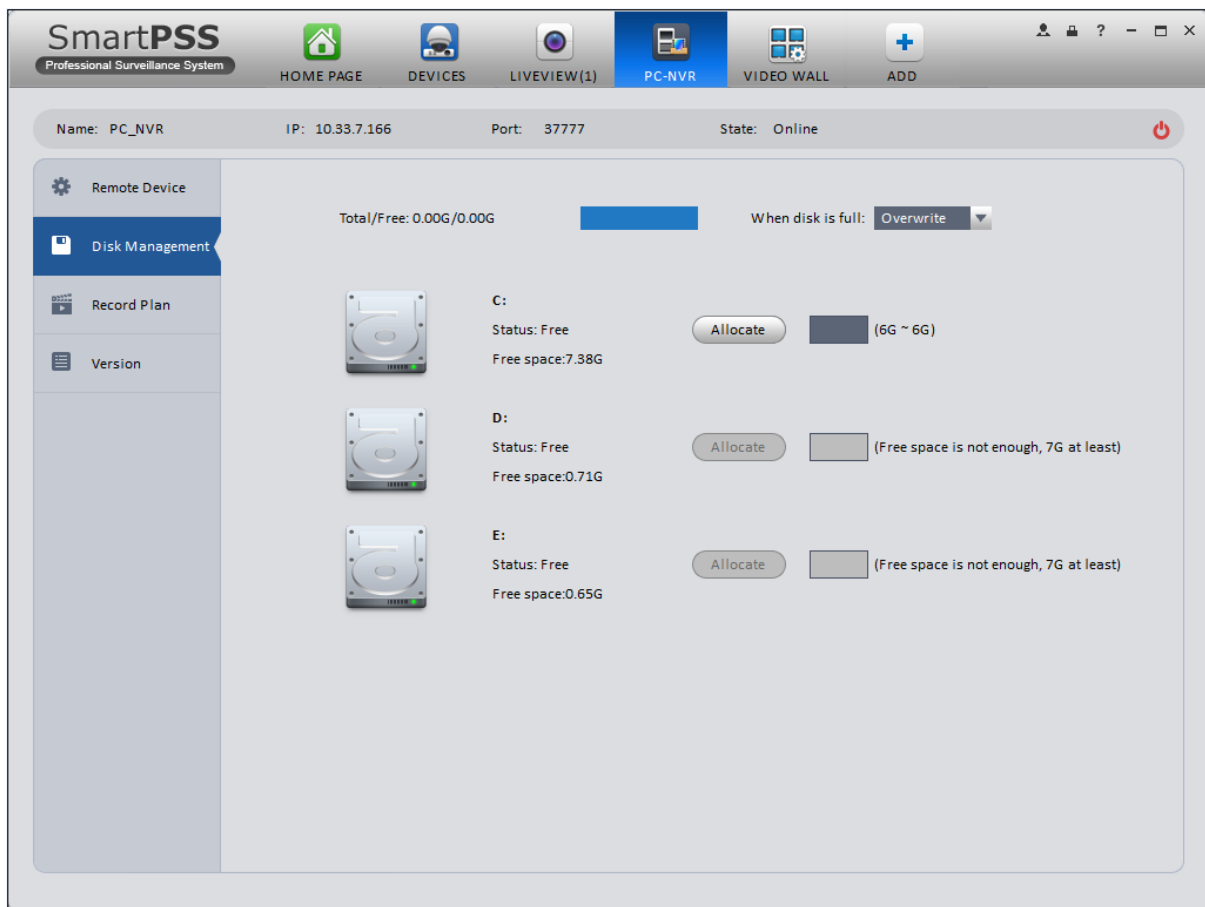



Figure 3-72

- 4) Add record plan
- a) In Figure 3-70, 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 3-73.

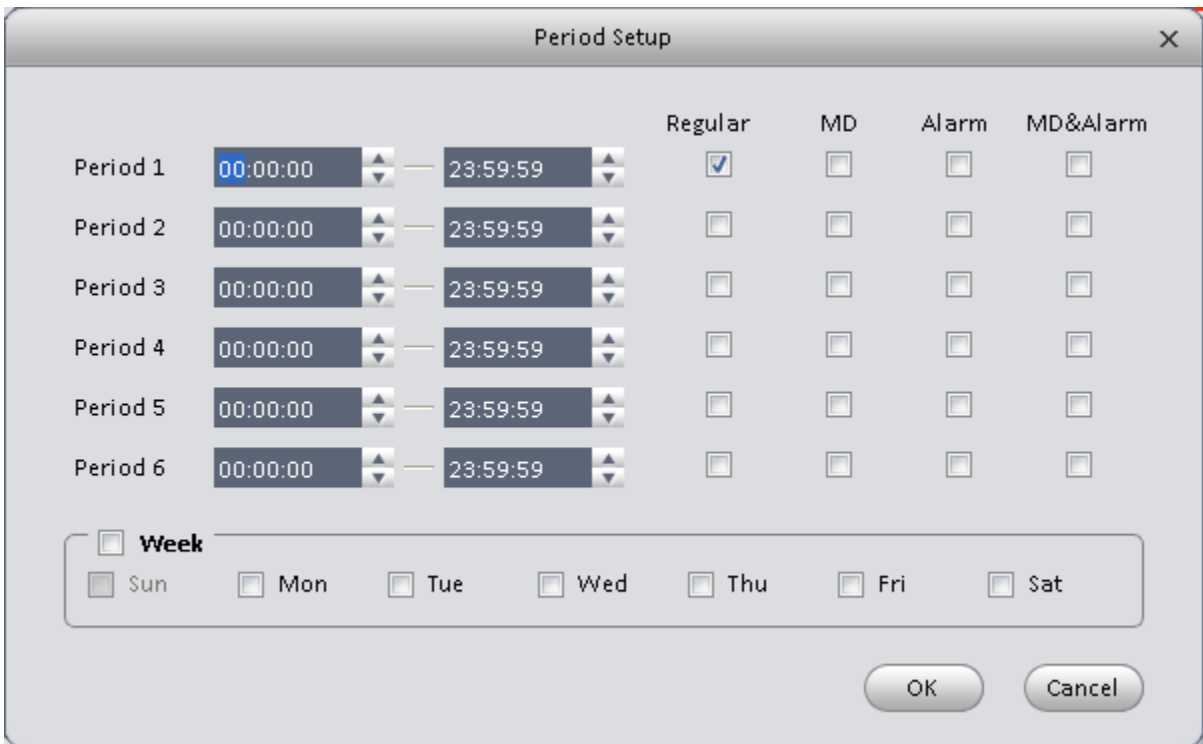


Figure 3-73

- b) Please set period information and type.
- c) Please set the corresponding time.
- d) Click OK button. You can see an interface shown as in Figure 3-74.

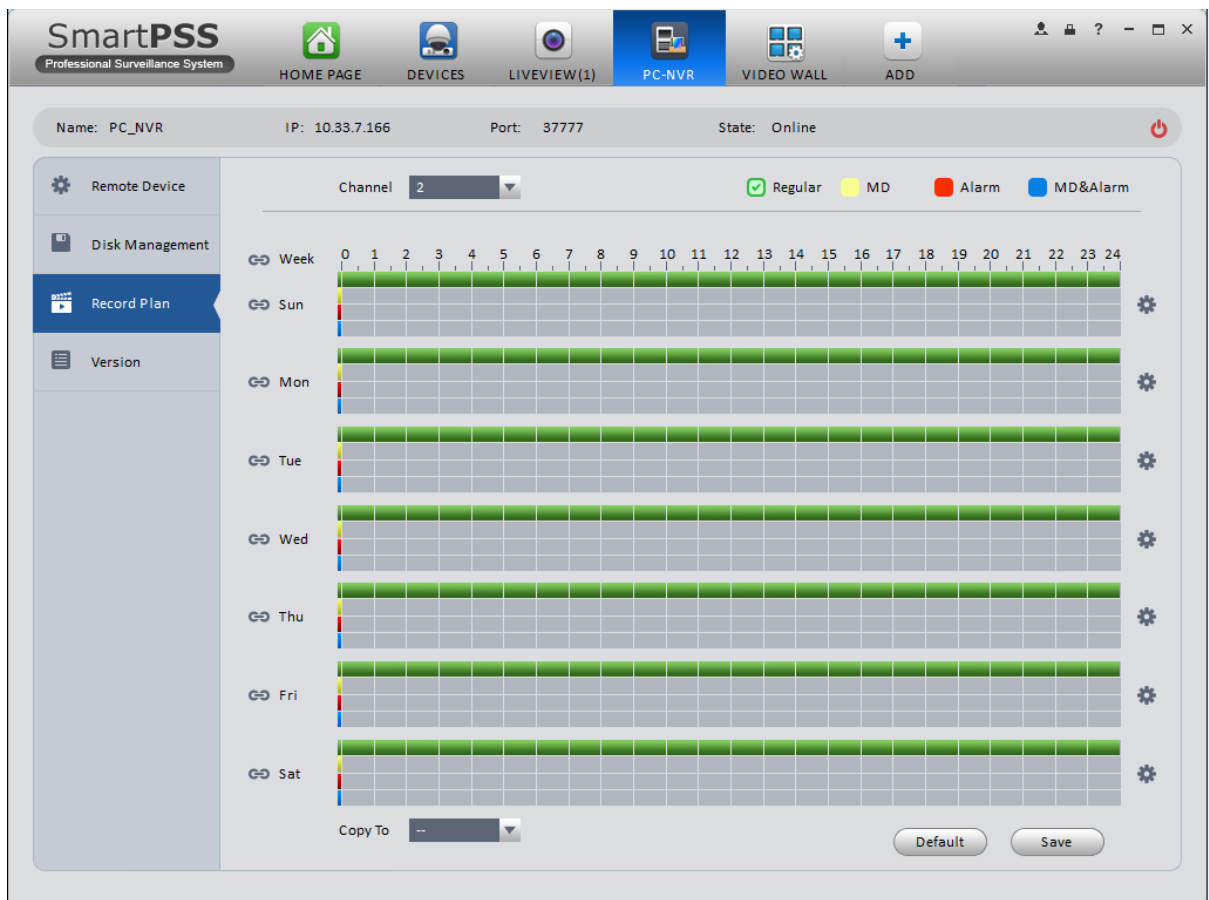


Figure 3-74

- e) Click Save.

Tips

After you complete setup for one channel, you can click Dropdown in Figure 3-74 to copy current setup to other channel(s).

- 5) View version.

3.10 Video Wall Configuration

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



- 1) Click , system goes to video wall setup interface. See Figure 3-75.

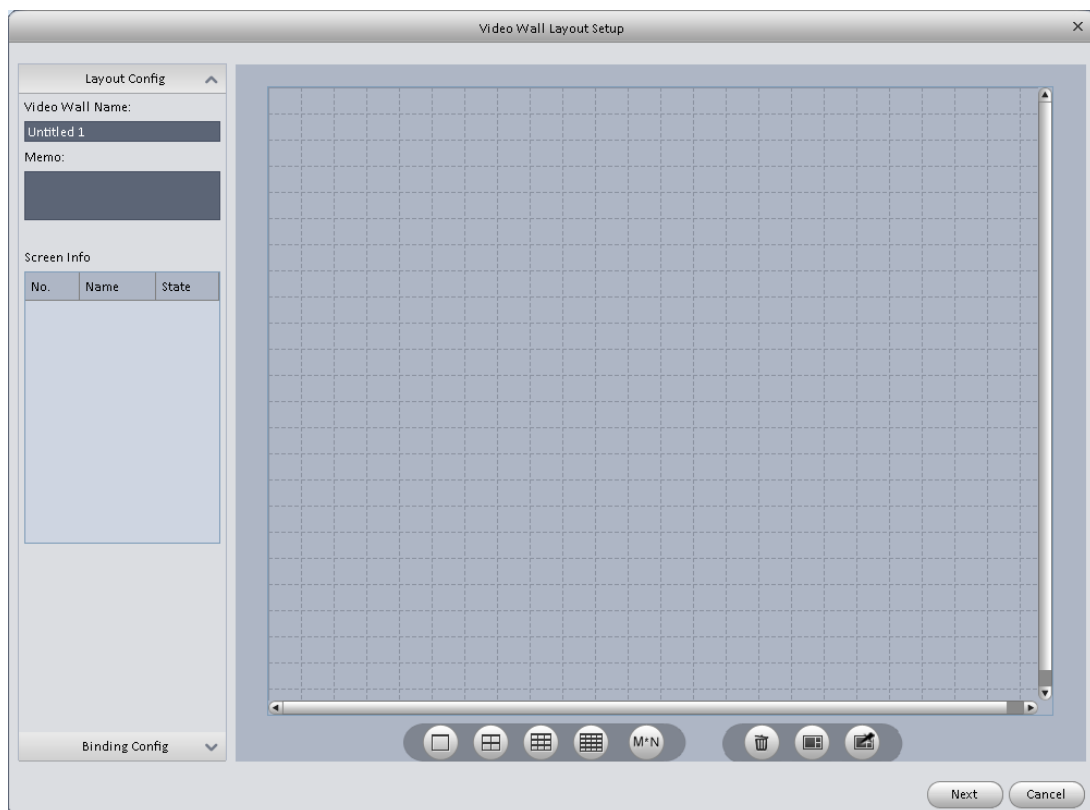



Figure 3-75

- 2) Config video wall.
 - a) Enter video wall name and description.
 - b) Click  below, select layout as 1*1, 2*2, 3*3, 4*4 or M*M. Click screen to draw video wall physical layout, see Figure 3-85.

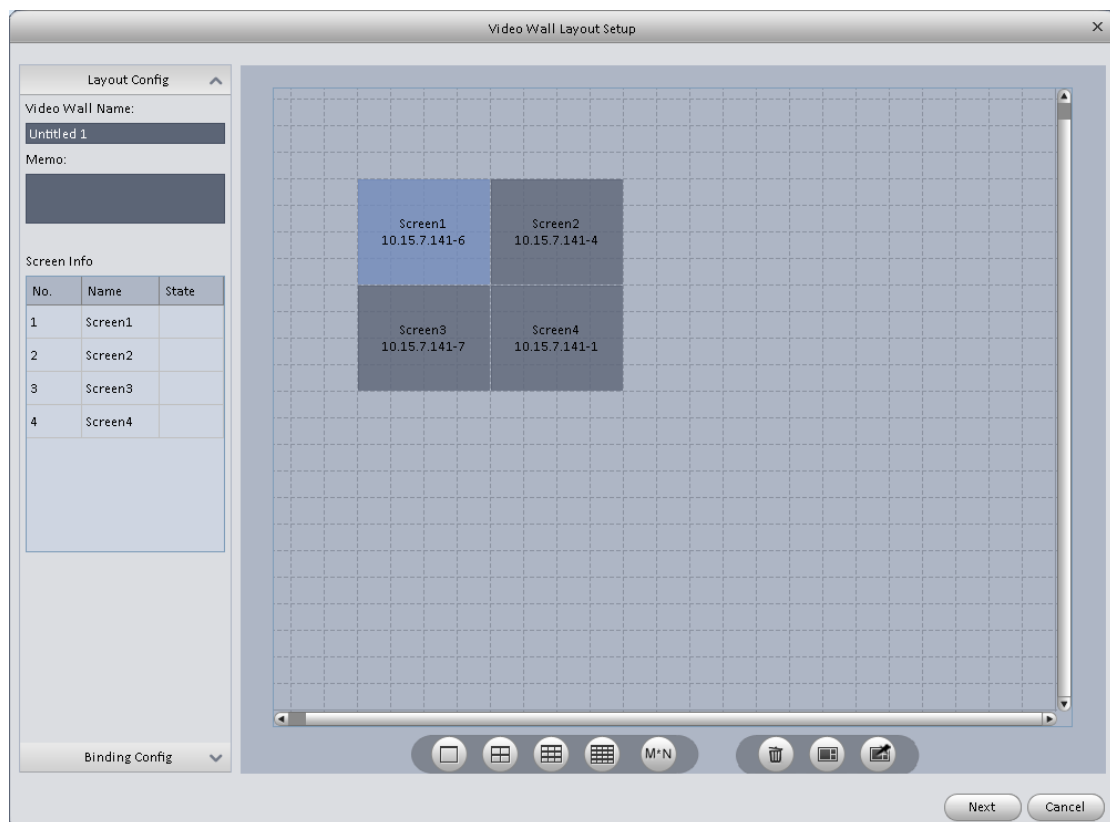





Figure 3-76

Note

- 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.

c) Click Next button, you can go to video wall input binding interface.

3) Binding decoder channel

Select a decoder channel and then drag it to the corresponding screen of the video wall. See Figure 3-86.

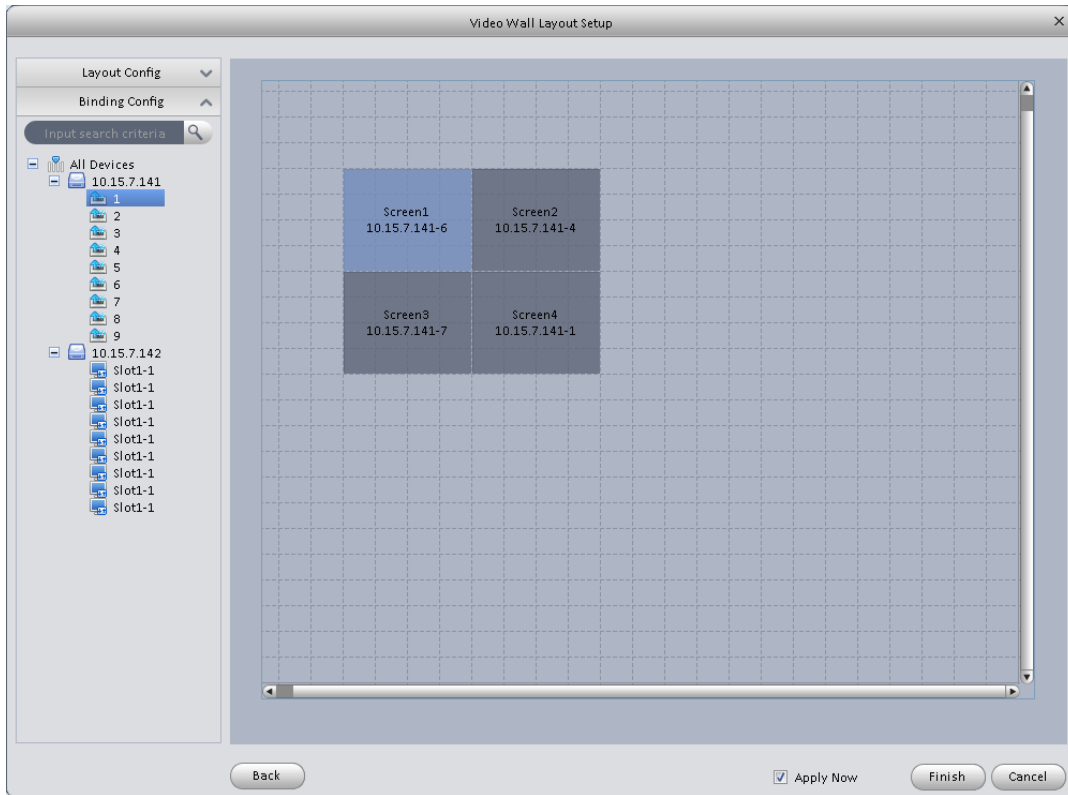



Figure 3-77

Note:

When a screen binds M30, you need to splice physical layout , otherwise you cannot bind.

- 4) Check the box to enable setup immediately and then click Finish button, you can see an interface shown as in Figure 3-78.

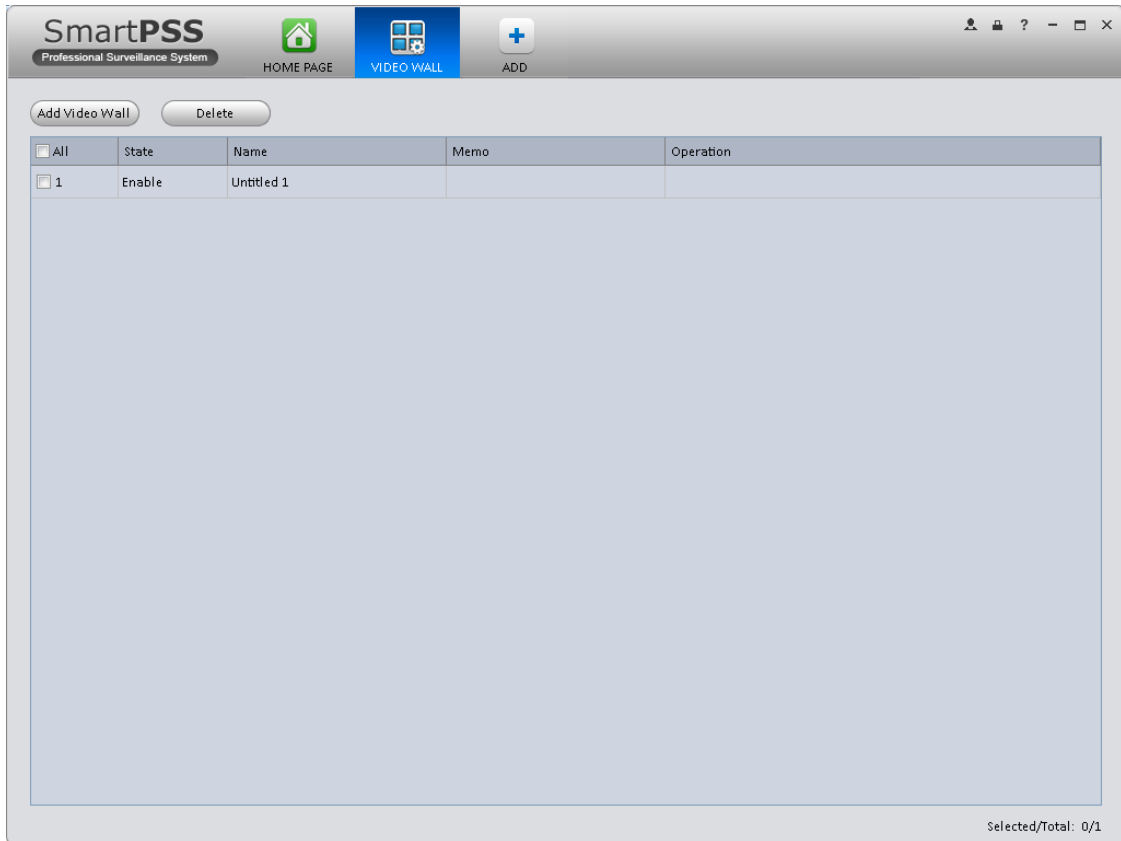





Figure 3-78

In Figure 3-78, double click a video wall, or select a video wall and then click Modify button , you can change its setup. You can also click Delete button or  to remove. Click , you can change video wall on/off setup.


4. Basic Operation

4.1 Liveview

4.1.1 Real-time Liveview

In Liveview opqge, you can group device or channel and view real-time liveview.



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

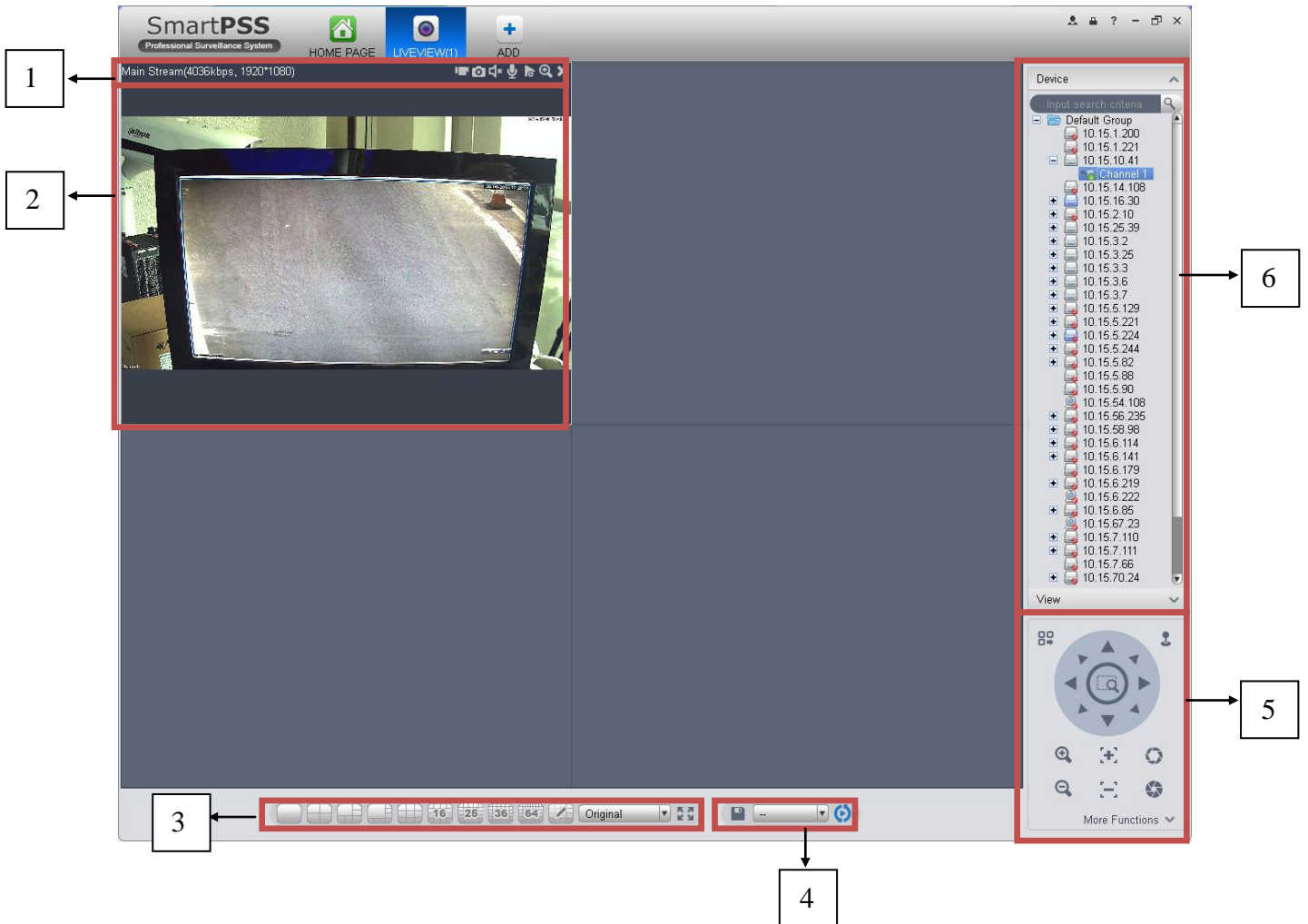
















Figure 4-1

Please refer to the following sheet for detailed information.

SN	Item	Function
1	Bit stream information and shortcut operation menu	<p>Please refer to the following contents for detailed information.</p> <ul style="list-style-type: none"> ● : 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	<ul style="list-style-type: none"> ● : It is to set 1-wind to 64-window mode. ● : Select a window and then click this button to customize its setup. ● : Adjust video scale. ● : Full screen.
4	Tour button	<p>: Save current view as a viewing profile. You can use it under View, Playback, and in tour interface.</p> <p>Note: When add view, check add to tour task before you can view it in tour&task.</p> <p>: Enable tour plan. Refer to Ch 3.9.</p> <p>: Close tour plan.</p>
5	PTZ	<p>It is for PTZ dome camera series product only.</p> <p>Here you can set camera direction, zoom in, zoom out, iris and etc.</p> <p>Click advanced button to set preset, tour, aux function and so on.</p>
6	Device list	<p>When default device tree is set to: device tree (by device), device tree shows device group and channel.</p> <p>When default device tree is set to: region/tree (by channel), device tree shows channel.</p> <p>Here you can create a new group and drag a device or channel to it.</p> <p>Right click a channel, you can select main stream/sub stream or quickly go to the device setup interface.</p>

Select a liveview 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 liveview window, you can see an interface shown as in Figure 4-2.

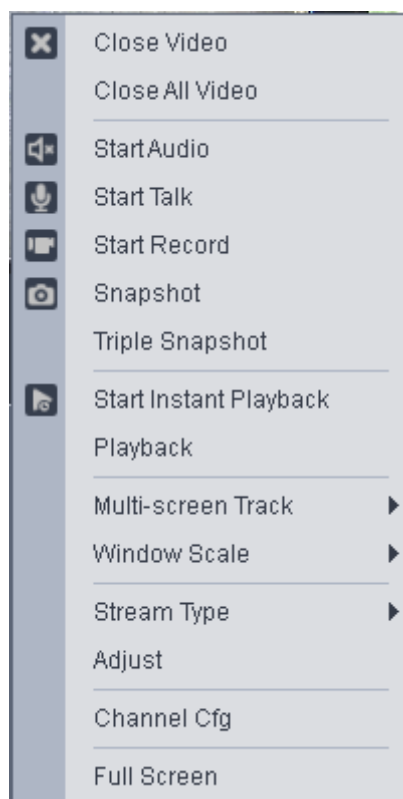


Figure 4-2

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.
Multi-screen Track	It can split screen to 1+3, 1+5 mode for 4K camera main stream. You can drag small box in video window.

Item	Function
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
Adjust	Set video brightness, contrast, hue and saturation.
Intelligent Overlay	Overlay intelligent rule, intelligent pattern and intelligent object box in video window.
Channel setup	Click it to go to the channel setup interface.
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/press Esc to exit.


4.1.2 Record

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

On the liveview 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 liveview process, you can follow the steps listed below to snapshot.

- 1) On the liveview window, right click mouse and then select snapshot. You can see system pops up snapshot dialogue box. See Figure 4-3.

Tips

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

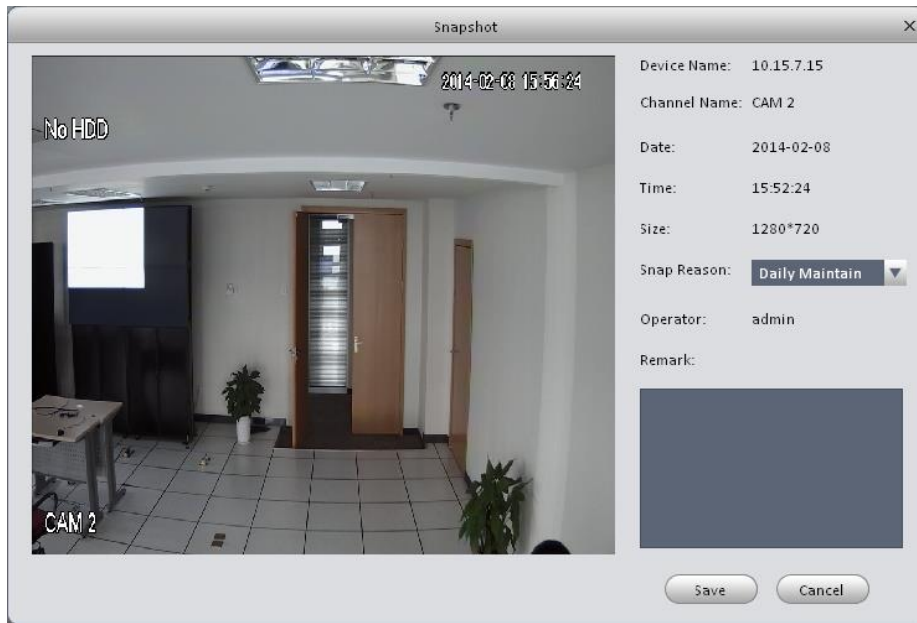


Figure 4-3

- 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 saved snapshot!”.

On the Liveview 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 E-Map

E-map is shown in device list not. You can directly drag map into preview window for preview, as well as save map into image for next time use. Via e-map, you can better visualize position of video channel or alarm channel and see live preview of the channel or alarm status.

4.1.4.1 Edit E-Map

- 1) You can go to device list on the right of Preview window, right click the default group or any group, select New Map, see Figure 4-4.

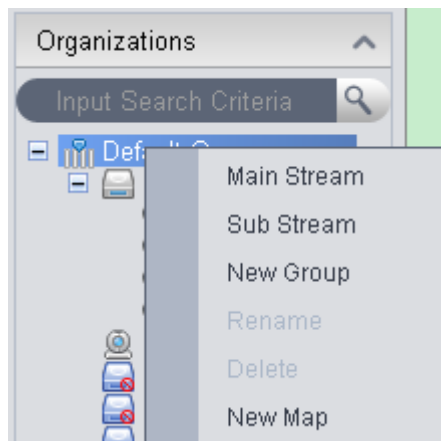


Figure 4-4

- 2) In map name field enter name of map, select picture and save it to enter edit page.
- 3) In map edit interface, drag video channel or alarm input you want to be displayed on map to designated position, see Figure 4-5.

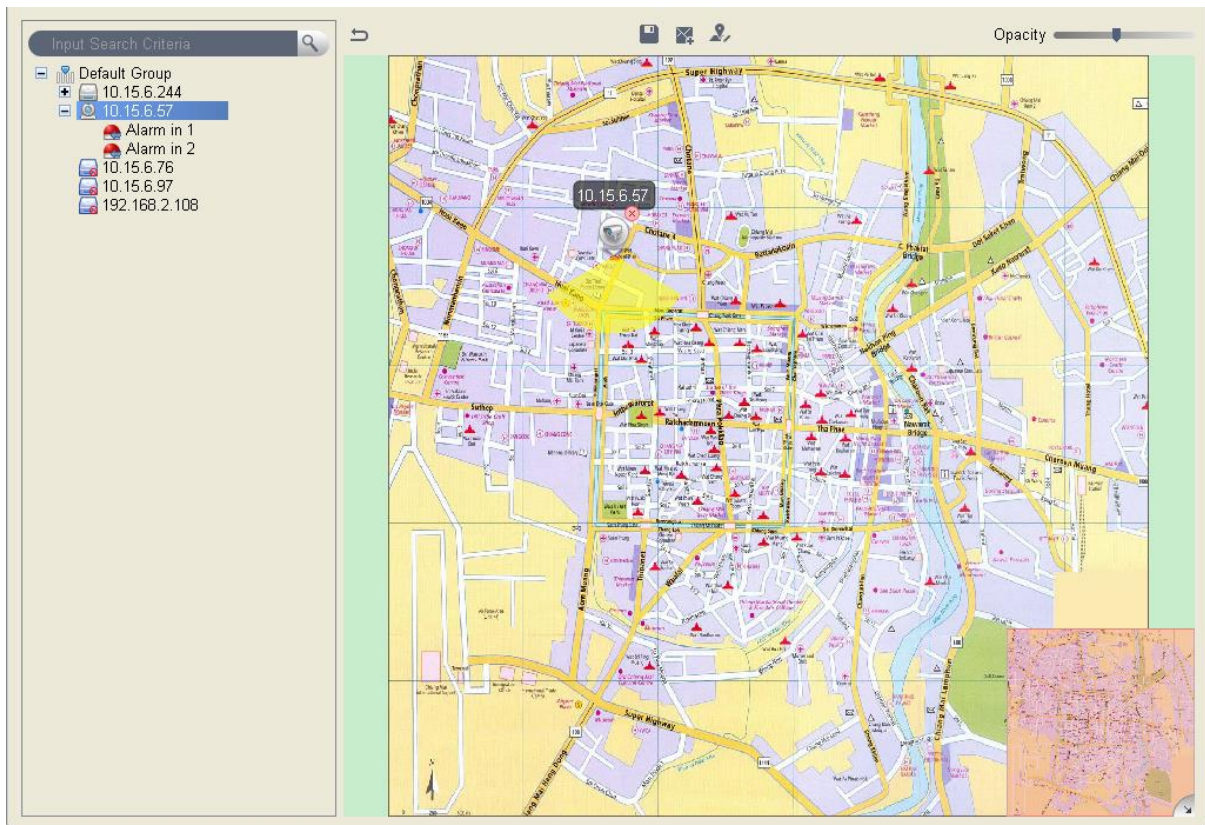


Figure 4-5

- 4) On map set monitoring range of video channel, see Figure 4-6. You can slide the bar at the upper right corner to set opacity, see Figure 4-7.

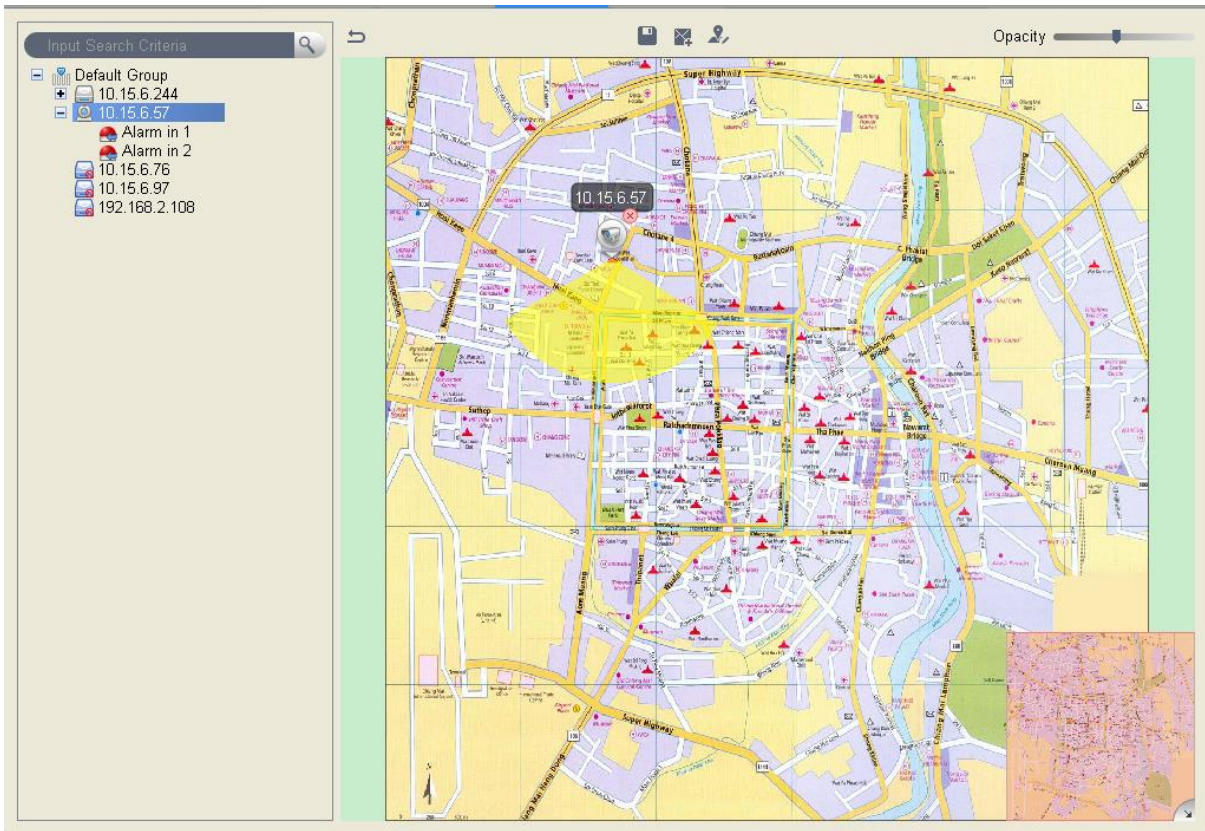




Figure 4-6



Figure 4-7

- 5) After you finish edit, click  to save map.
- 6) Click  to return to preview.

Parameter	Note
Save	Save current map you are editing.
New Area	Create new area on map.
Edit Map	Modify map name and picture.
Opacity	Set opacity of monitoring range.

4.1.4.2 Preview E-Map

You can directly drag map you want to preview from device list into idle window, or select one idle window, in device list double click map. Map can be zoomed in/out and you can move mouse to see every detailed position info, see Figure 4-8.

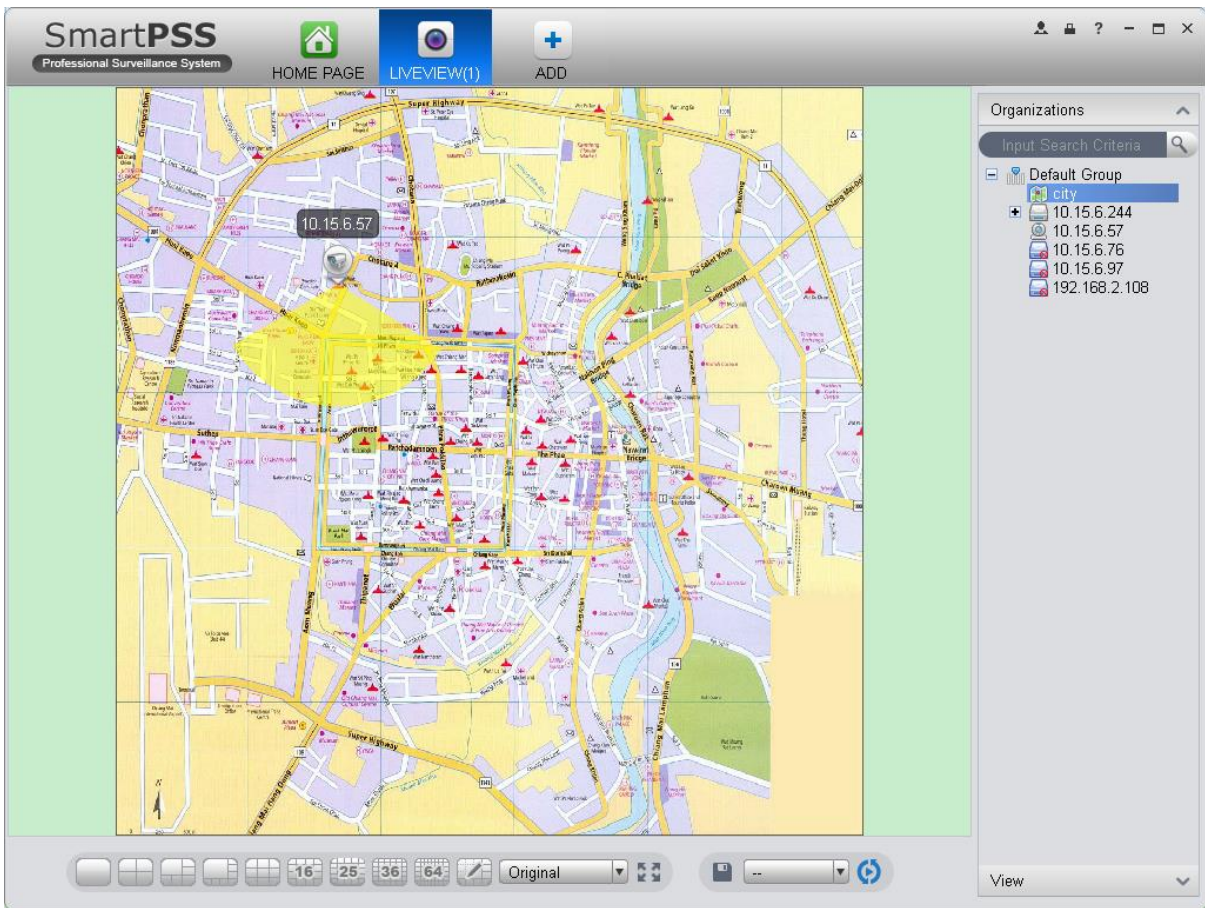


Figure 4-8

After you open map, you can move your mouse to a video channel to see short preview. You can click a video channel, then the video channel will be opened next to your mouse, see Figure 4-9. Click again to close video.

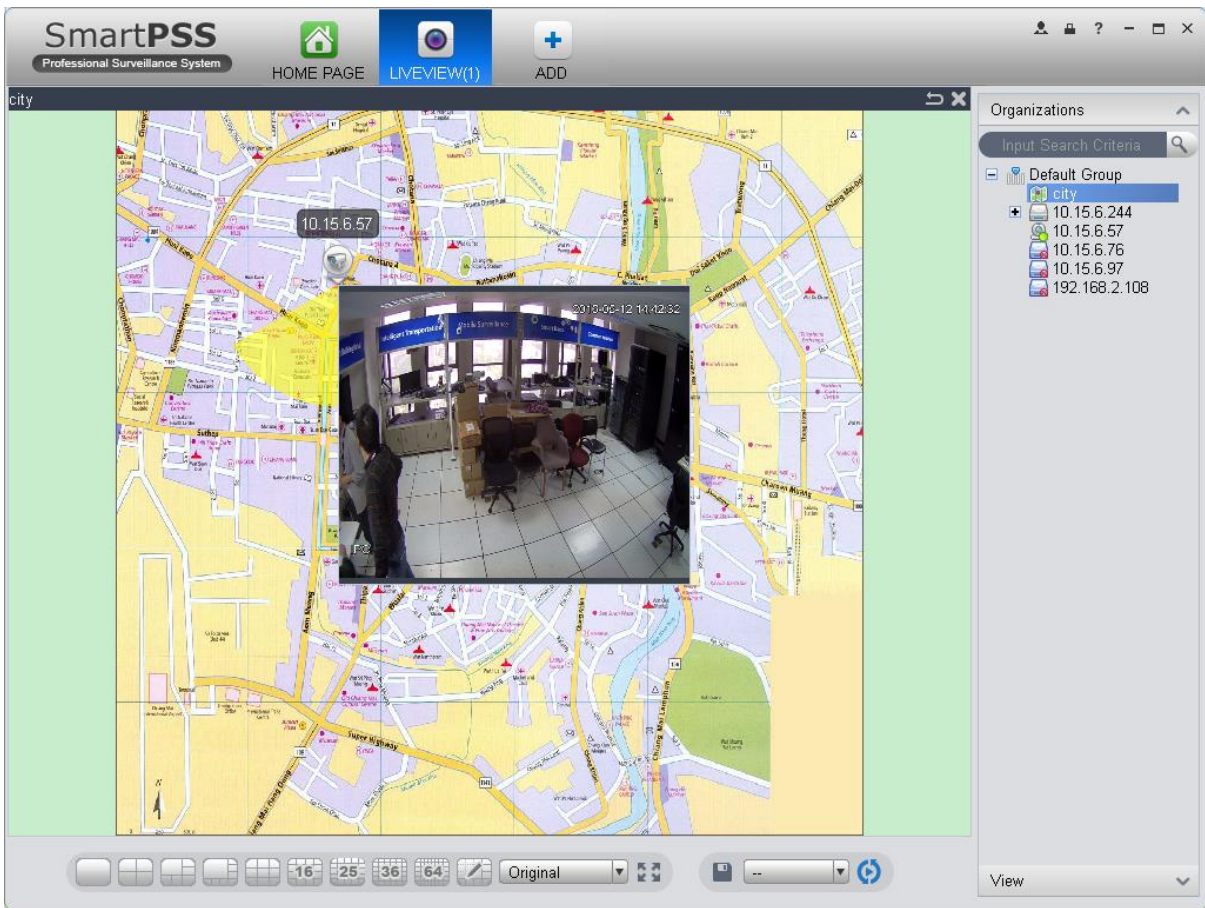


Figure 4-9

You also can right click in blank area, select open all channels or video wall to preview all channels on the map, see Figure 4-10 and 4-11.



Figure 4-10

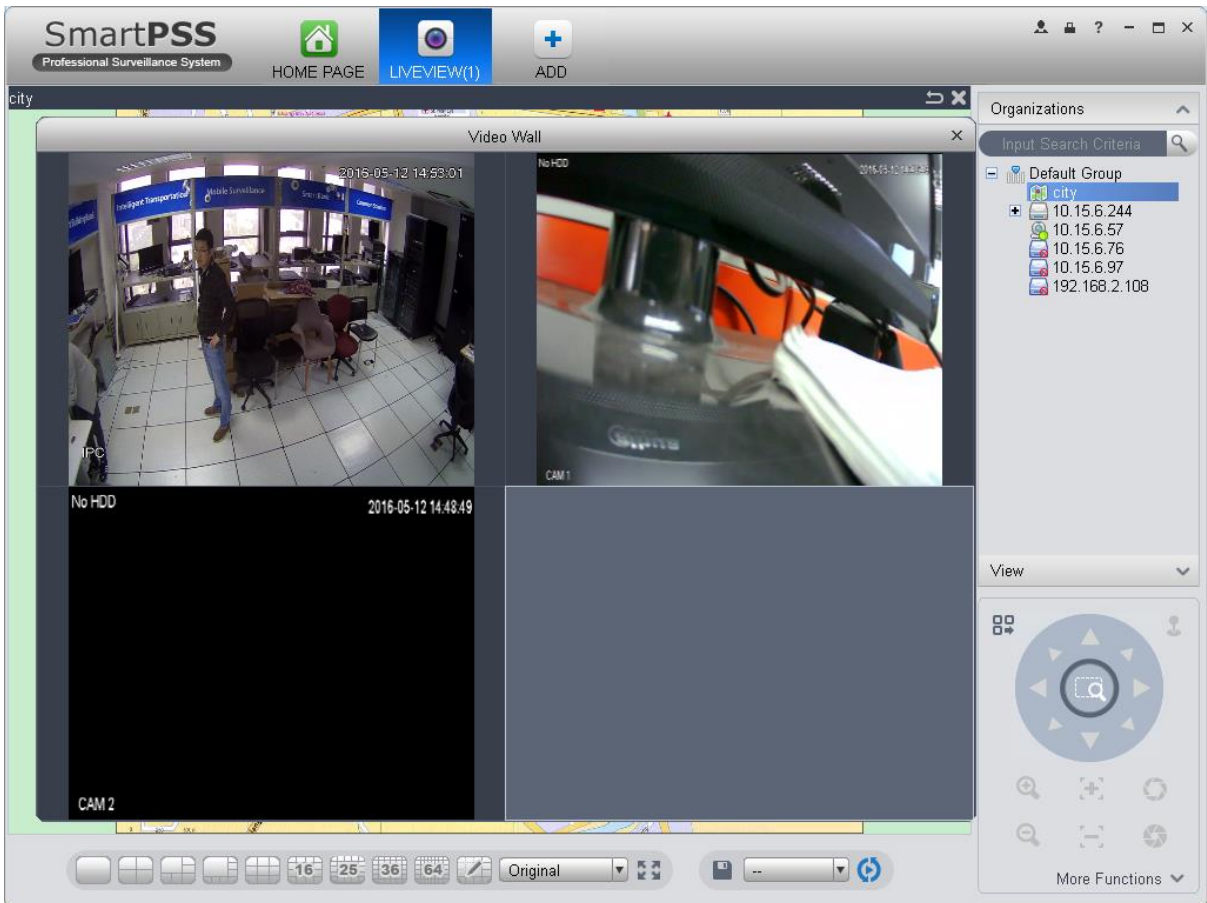


Figure 4-11

When alarm occurs, corresponding channels on map will flash.

4.1.5 Fisheye

Installation of fisheye includes in-ceiling, wall mount and ground.

In-ceiling supports 8 views, the ground mounted 1+4 mode is illustrated by Figure 4-4.

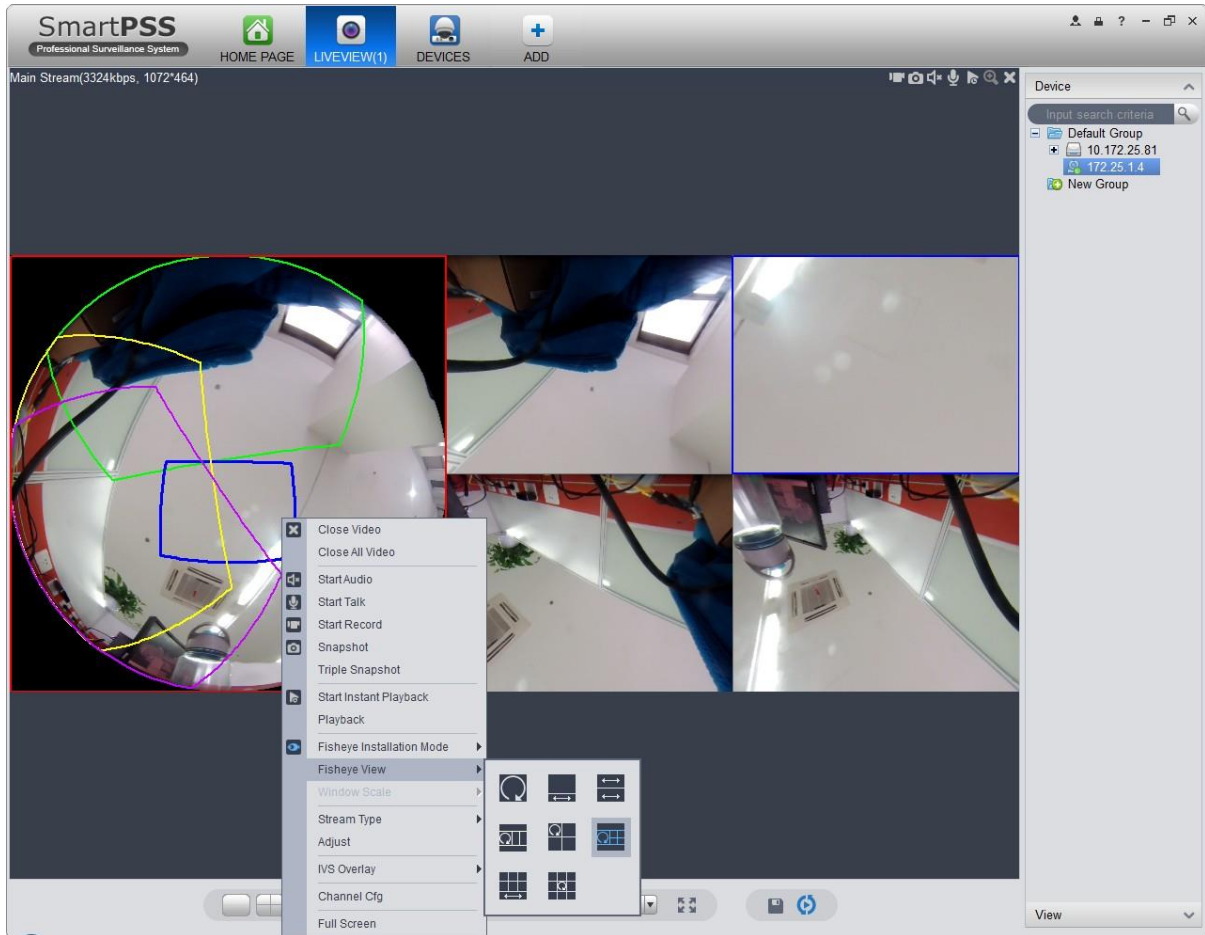



Figure 4-12

In the left, fish eye splits into 4 scene boxes, if you drag one box with mouse, as : , the corresponding above scene box will rotate.

Wall mount supports 5 views, and ground supports 7 views.

4.1.6 Smart Alarm

If the system configures SmartIPC device, then you can configure rule for smart channel of the device in Liveview interface.

Step 1. In Liveview interface, device list on the right, right click intelligent device, select IVS Channel Cfg. See Figure 4-4.

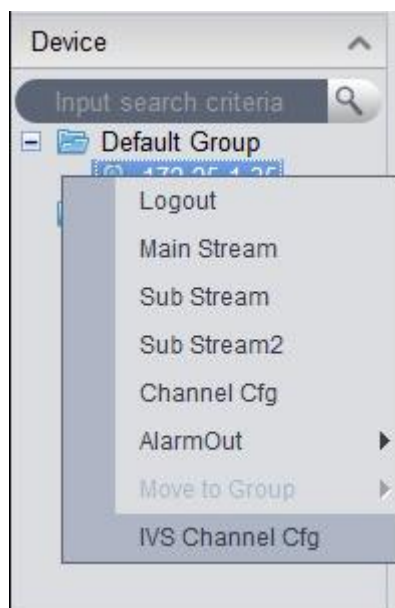


Figure 4-13

Step 2. In channel list dropdown list, select channel, see Figure 4-6.

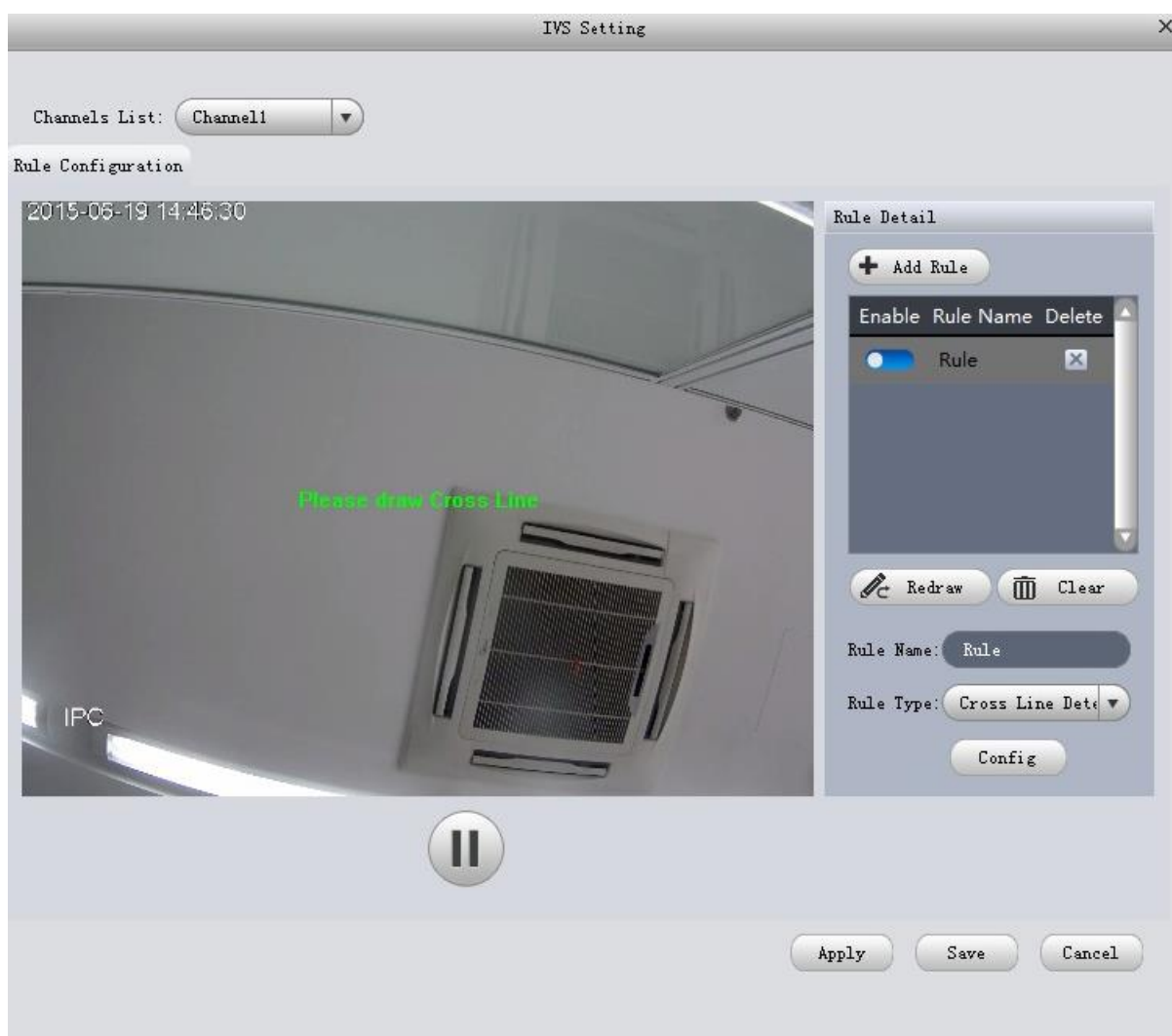


Figure 4-14

Step 3. Click **+ Add Rule**. See Figure 4-6.

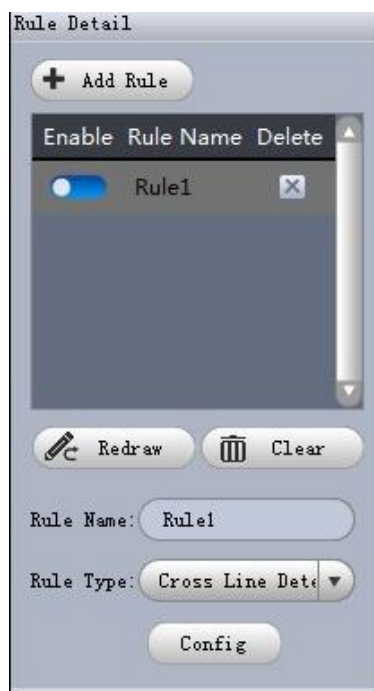


Figure 4-15

Step 4. Configure rule name, and select rule type.

Step 5. In video window, draw detection region, and right click to complete drawing.

- Click Redraw to draw detection region again.
- Click Clear to clear drawn detection region.

See Figure 4-10.

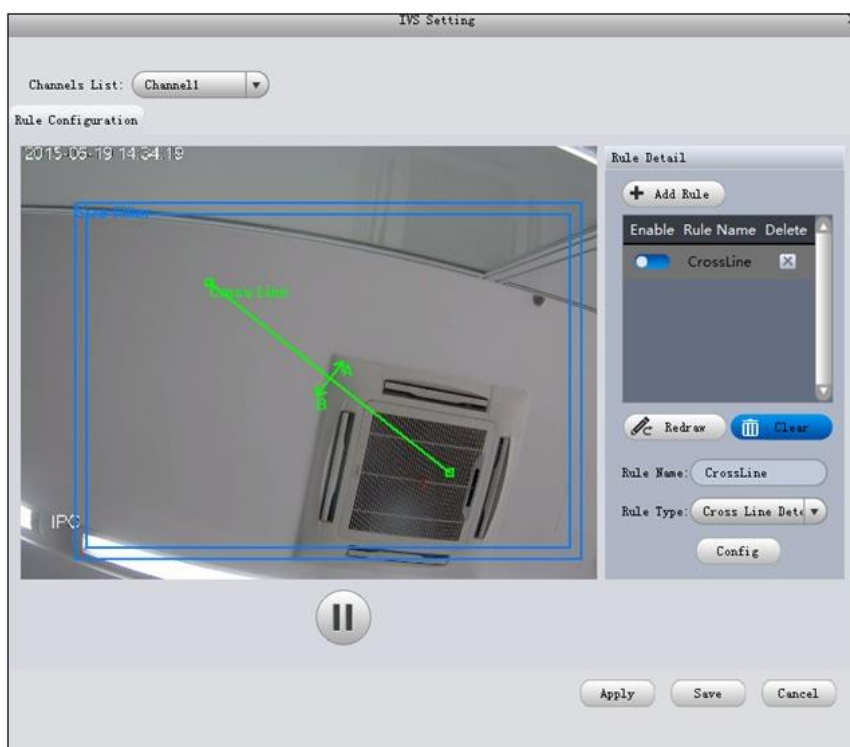


Figure 4-16

Step 6. Click Config.

Step 7. Set parameters, select “A<- ->B”, “A-->B” or “A<--B”, see Figure 4-11.



Figure 4-17

Step 8. Click Time Setting, set time, see Figure 4-12.

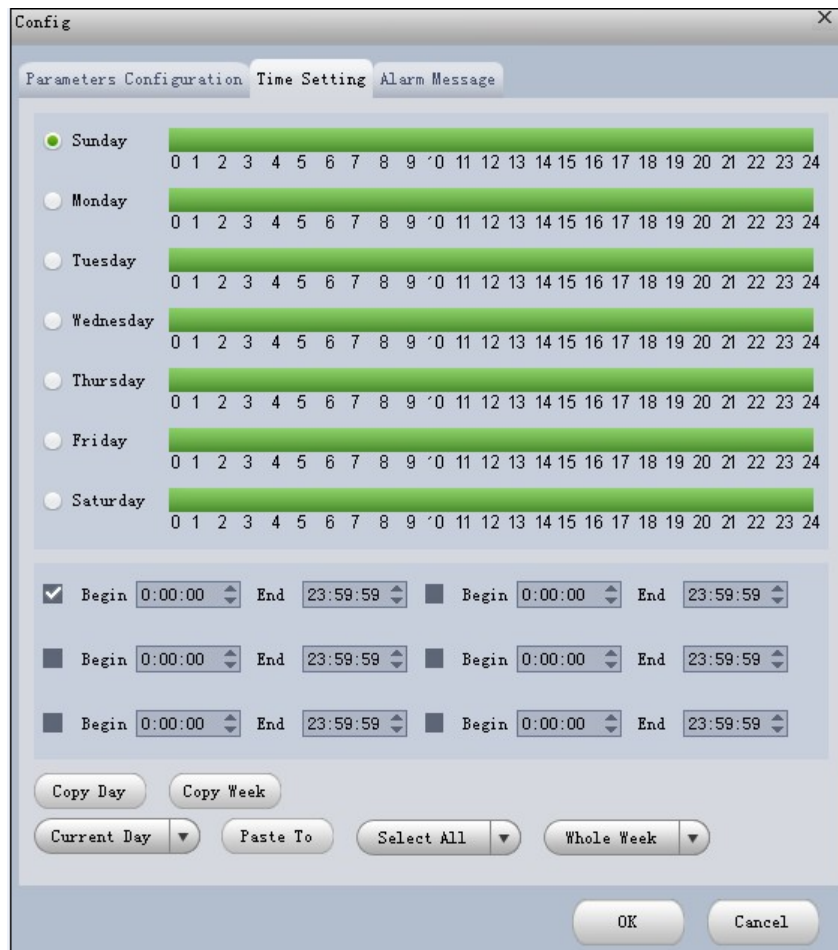


Figure 4-18

Step 9. Click Alarm Message.

Step 10. Check alarm output, record, snapshot and click OK.

Step 11. Click Apply.

When alarm occurs, in LOG interface, you can select alarm log for type, and IVS device for device name to search alarm info. See Figure 4-13.

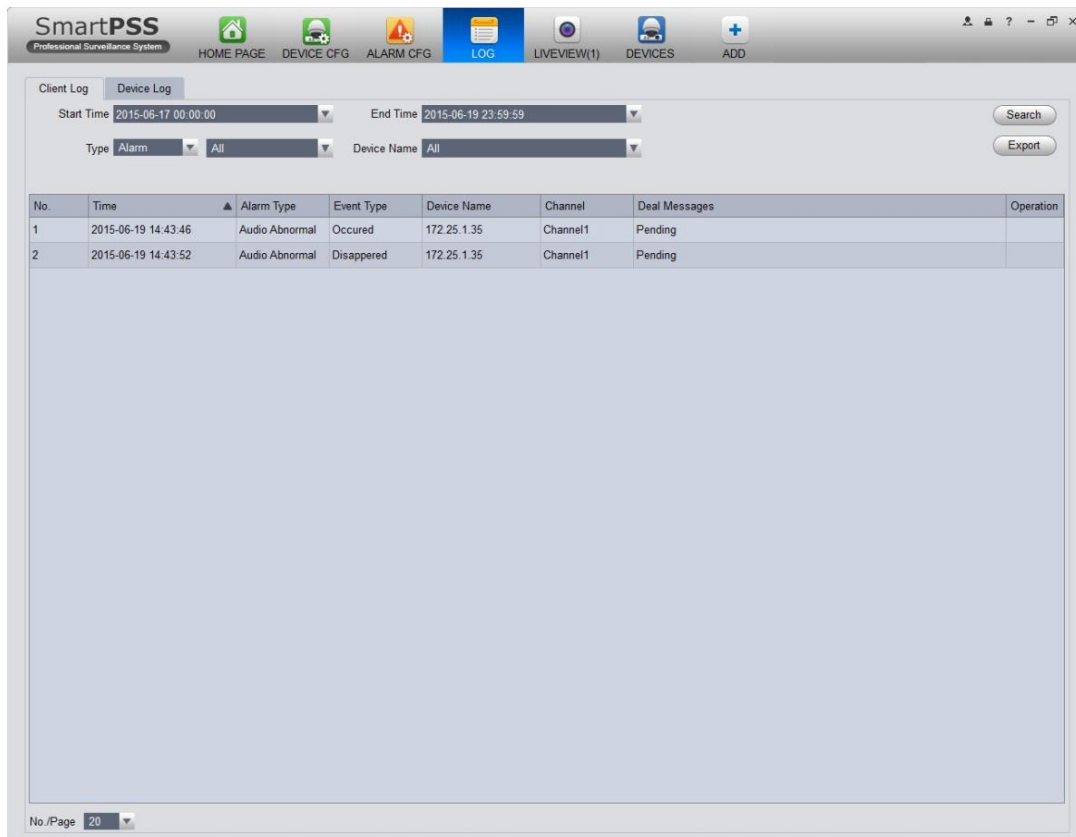


Figure 4-19

4.1.7 Smart Track

The system supports smart track in Liveview interface.

- 1) In device list on the right of Liveview window, right-click smart track device, select "Smart Track Config". System pops up Smart Track Config box, see Figure 4-14.

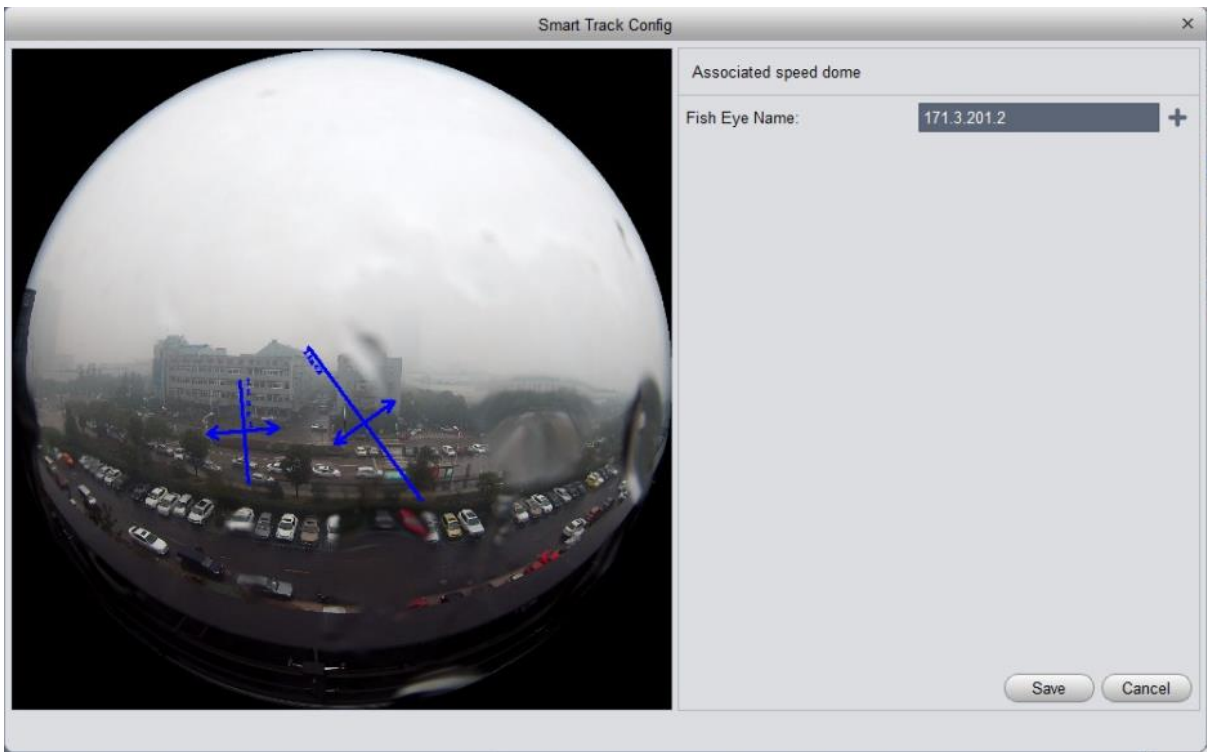



Figure 4-20

- 2) Click , select PTZ dome device.


Note:

Do not link more than 3 PTZ cameras at the same time.

- 3) Click Save. See Figure 4-15.



Figure 4-21

- 4) Click Add.
- 5) In fish-eye device list on the left, select one point. Then image shown on the right will turn to the this selected point, click .

Note:

To improve accuracy of track, mark of first group shall be a far fixed reference object.

- 6) Repeat step 4 and 5, add at least three points. See Figure 4-16.

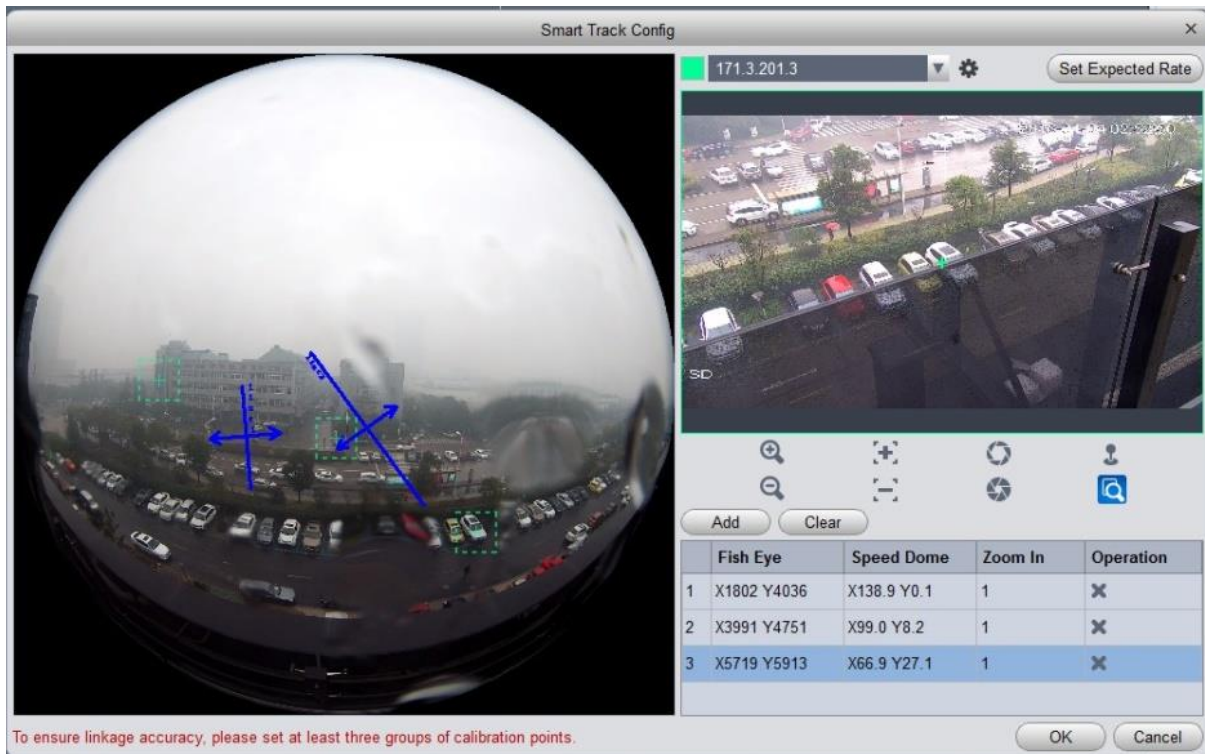


Figure 4-22

- 7) Click OK.
- 8) Right click device on the right in fish-eye device list, select Smart Track. System pops up smart track box, see Figure 4-17.

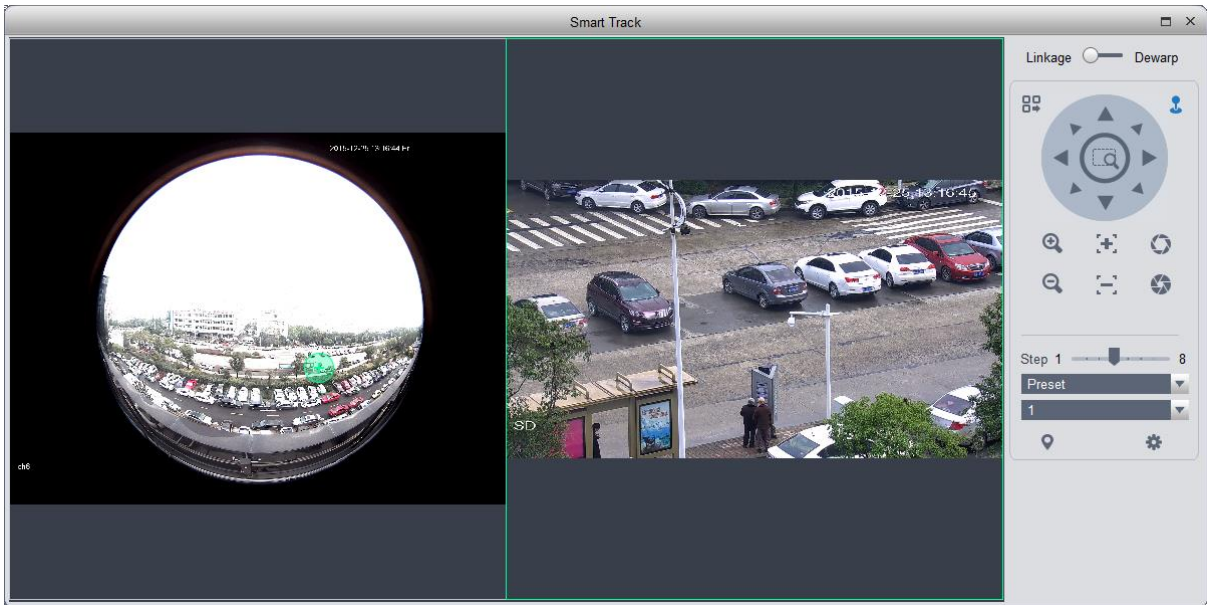


Figure 4-23

- 9) Click a random point on device on the left, PTZ camera on the right will auto turn to the related position.

In this interface, you can correct smart track by clicking on dewarp at the upper-right corner, please refer to Ch 4.1.4.

4.1.8 PTZ

If the device type is PTZ dome camera, you can click the PTZ button to set. See Figure 4-24.

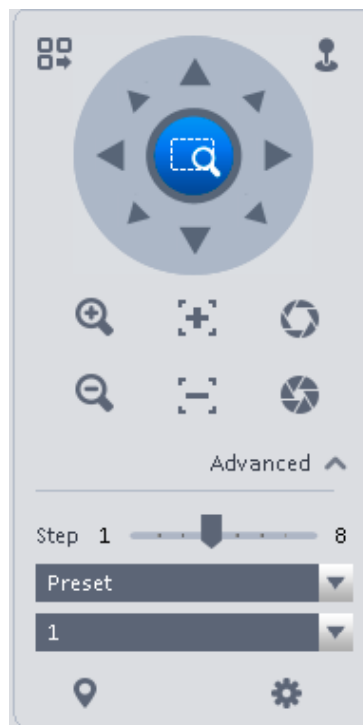





Figure 4-24

Please refer to the following sheet for detailed information.

Item	Function
PTZ menu	<p>Click  to go to the PTZ menu. See Figure 4-25.</p>  <p style="text-align: center;">Figure 4-25</p>
Mouse simulator	Click  , you can use your mouse to set camera movement direction.
Direction buttons	It is to set camera movement direction. There are total 8 directions. Top/bottom/left/right/top left/top right/bottom left/bottom right.
Zoom	It is to control speed dome to realize zoom function.
Focus	It is to adjust video definition.
Iris	It is to adjust brightness.
Step	It is to control PTZ movement speed. It supports value 1 to value 8.
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.
Horizontal rotate	It is to enable horizontal rotate function.
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.
Aux	It is to set aux positioning.

4.1.8.1 Preset

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

Preset setup

Please note system supports a max of 128 presets by default.

- 1) In Figure 4-24, use direction keys to move the camera to your desired location.
- 2) Click ▼ dropdown list, select preset; click ⚙️ and click ▼ dropdown list. Select number within 1~128.
- 3) Click ✓ to set corresponding preset. .

4.1.8.2 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 4-24, select Tour from the dropdown list and then click ⚙️ button. See Figure 4-26.

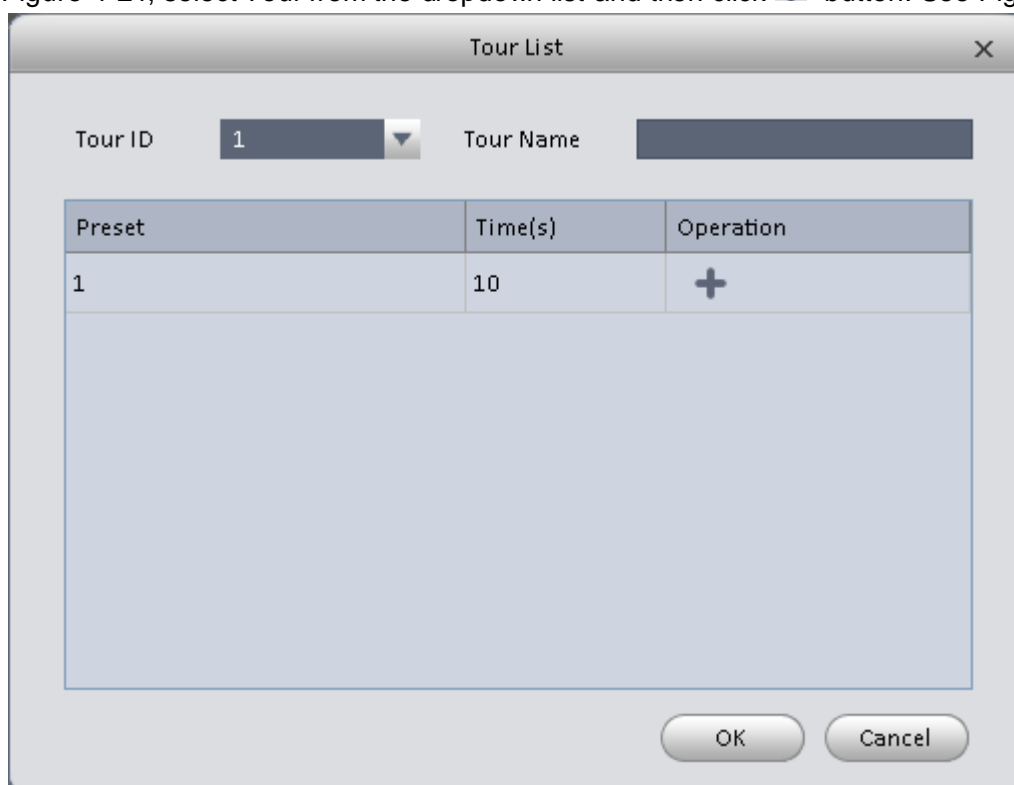






Figure 4-26

- 2) Input tour number/tour name.
- 3) Select preset number from the dropdown list and input stay time.
- 4) Click + 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.
- 5) Click OK button to complete the tour setup.
- 6) Click ⏻ button to tour.

4.1.8.3 Pan






- 1) Click Pan ▼ dropdown list, select Pan.
- 2) Click ⏻ to enable Pan.

4.1.8.4 Scan



- 1) Click  dropdown list, select Scan.
- 2) Click PTZ button, to rotate left, click , set left border.
- 3) Rotate PTZ to right, click  set right border.
- 4) Click  to enable Scan. PTZ will rotate within the range of two borders.

4.1.8.5 Pattern

Pattern is the process of recording.

- 1) Click  dropdown list click Pattern.
- 2) In  dropdown list select number of pattern, you can set up to 5 patterns.
- 3) Click , after button is red, operate on 8 buttons of PTZ to start setup of pattern.
- 4) Click , complete pattern setup.
- 5) Click , device will rotate according to set pattern.


4.1.8.6 Aux

- 1) Click  dropdown list, select Aux.
- 2) In Aux order box, input any number between 1~255. Each number has a corresponding function.
- 3) Click , display function of Aux order.

4.2 Playback

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



On the homepage, click  in the Basic pane, you can go to the playback interface. See Figure 4-27.

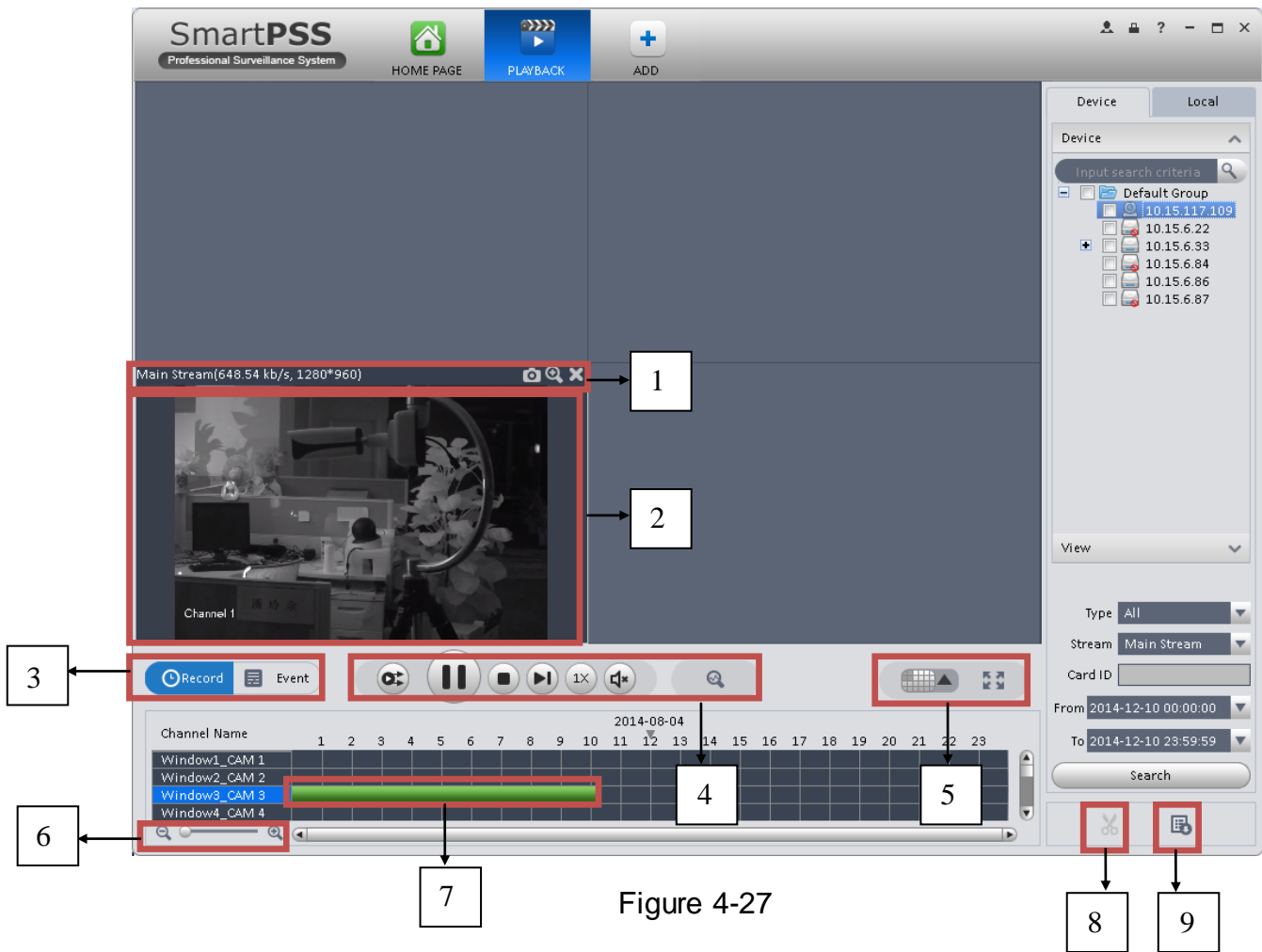












Figure 4-27

SN	Item	Function
1	Shortcut operation column	There are shortcut operations to download record file and snapshot. <ul style="list-style-type: none"> ● : 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	<p>It is to control the playback process, audio and etc:</p> <ul style="list-style-type: none"> ● : 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 by one frame. ● : It is to control the playback speed. ● : It is to adjust volume. ● : Motion detect the zone.
5	Window display mode setup	<p>It is to set window split mode. The value ranges from 1-window to 36-window.</p> <ul style="list-style-type: none"> ● : Select a window and then click this button to realize customized setup. ● : Full screen.
6	Time control bar	It is to zoom in /zoom out time line.
7	Time bar	Playback time process.
8	Time clip	It is to edit the time line to download the specified records.
9	Export process	It is to export the records of the specified period.

4.2.1 Playback Device Record

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

- 1) In Figure 4-27, click Device button on the upper right intergface.
- 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 Search. See Figure 4-22. By default, system search record by “time”.

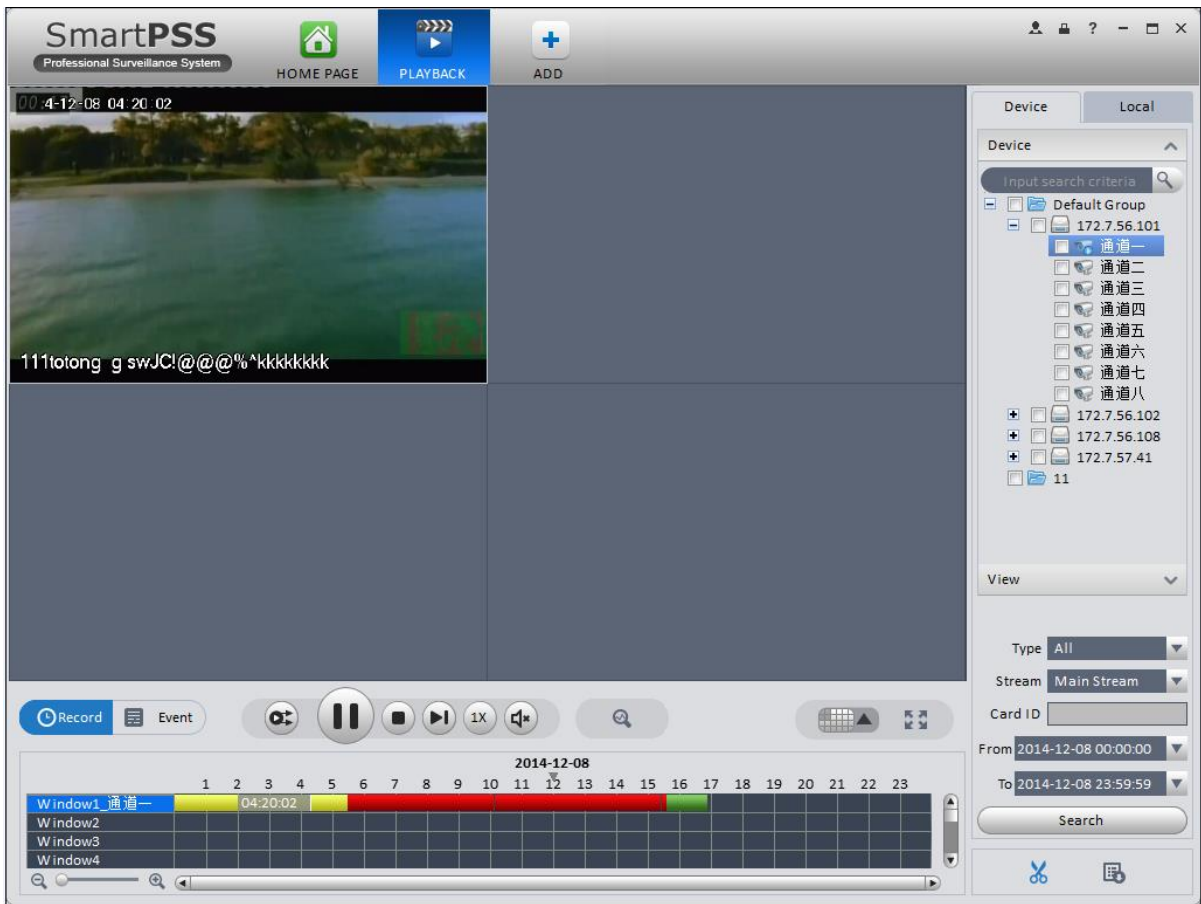





Figure 4-28

- 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 card no. record.

- 5) Click  to play record.
- 6) Click  to intelligently search motion detection. System shows motion detection window.
- 7) Left click to select motion detection area with the box.
- 8) Click  to search motion detection. The purple time bar represents found motion detection in Figure 4-23.

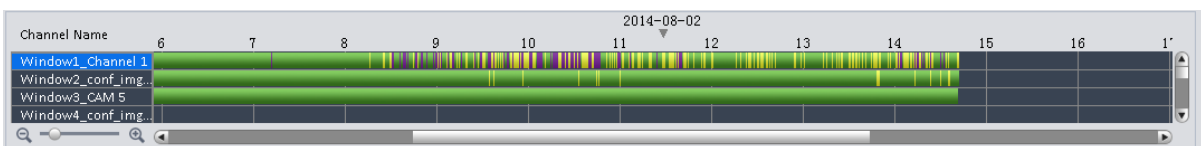





Figure 4-29

- 9) Click  to play motion detection in video window.

: Re-select motion detection area.

: Exit intelligent search.

10) Click event below video window. System search record file by event.

11) Click , to playback record. See Figure 4-24.

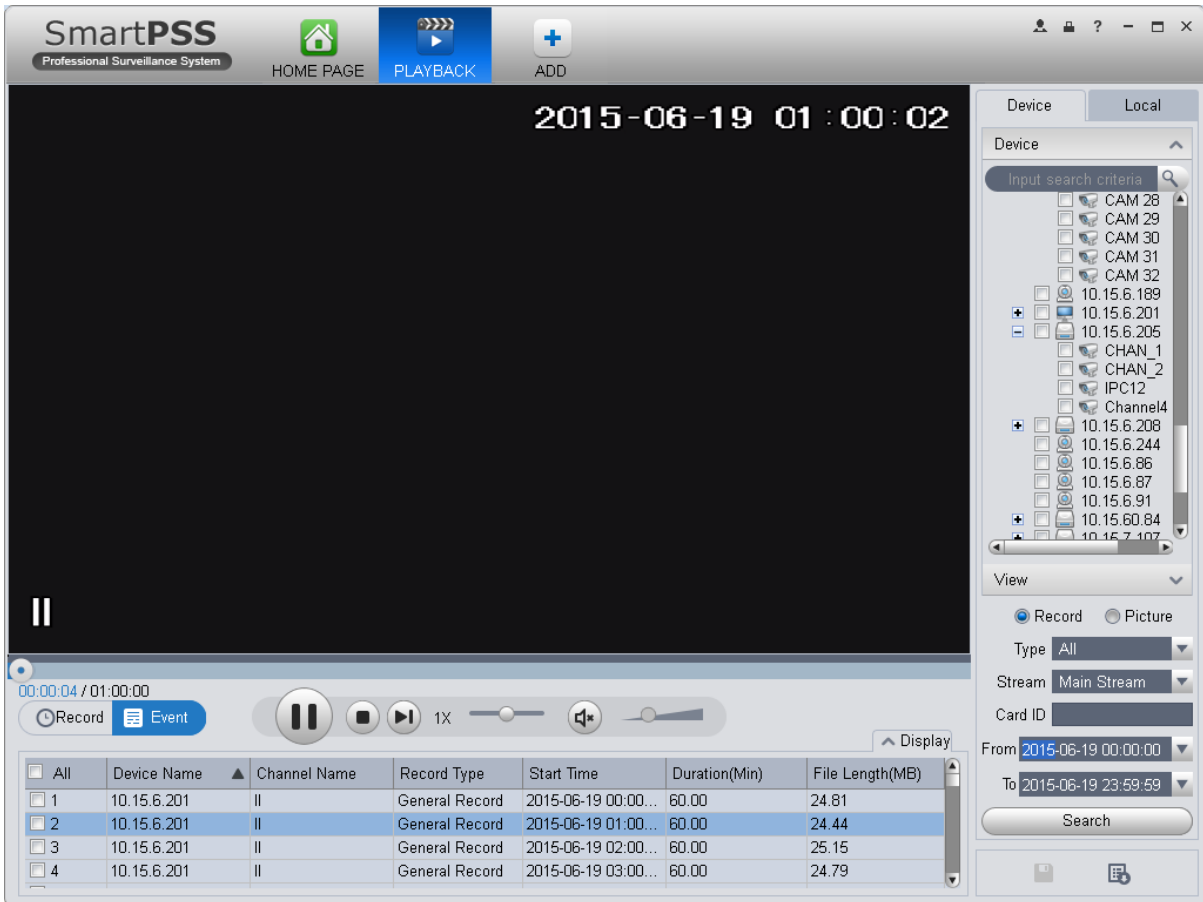


Figure 4-30

12) Select Picture on the right.

13) Configure search time, click Search. System shows snapshot, see Figure 4-25.

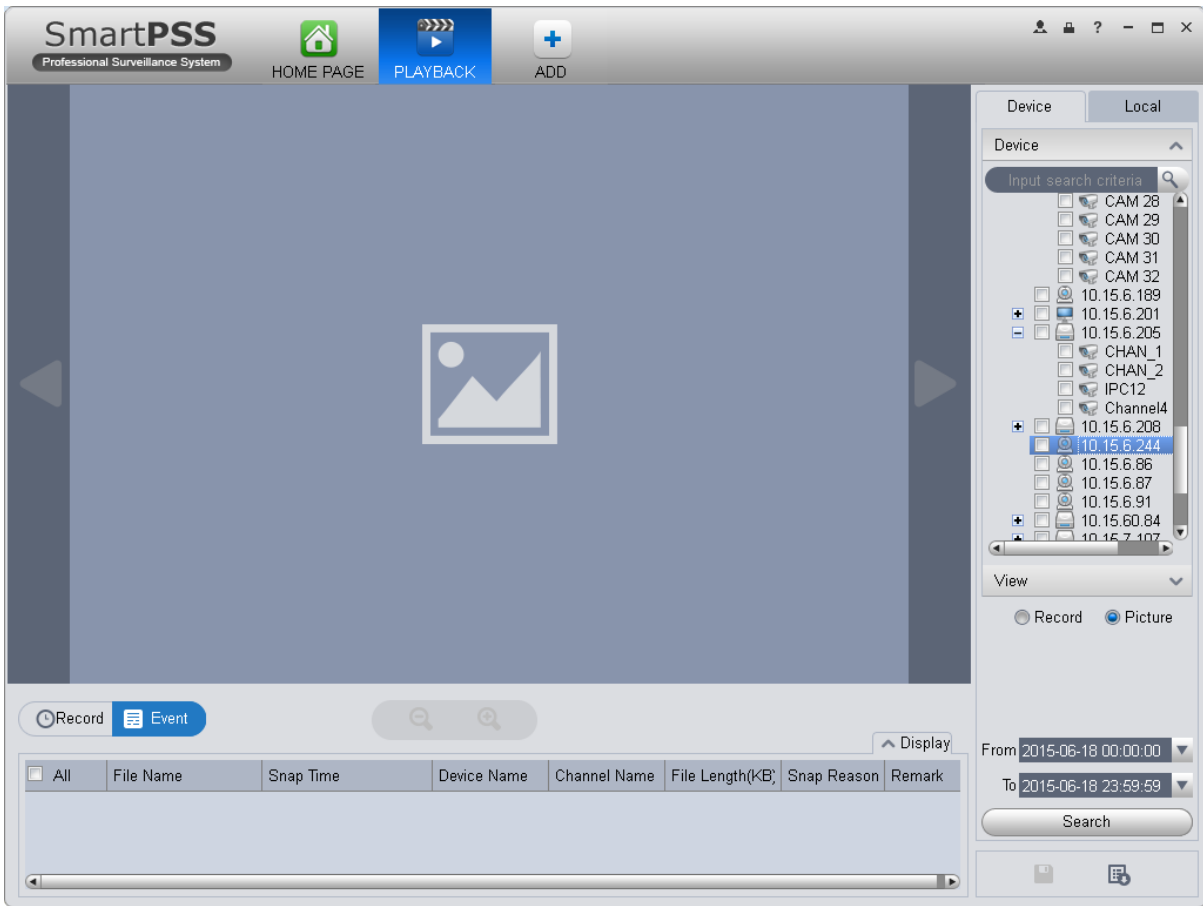


Figure 4-31

You can click  to view snapshot.

14) (optional) You also can playback record under View.

a) In Liveview interface, click  at bottom.

System pops up Figure 4-26.

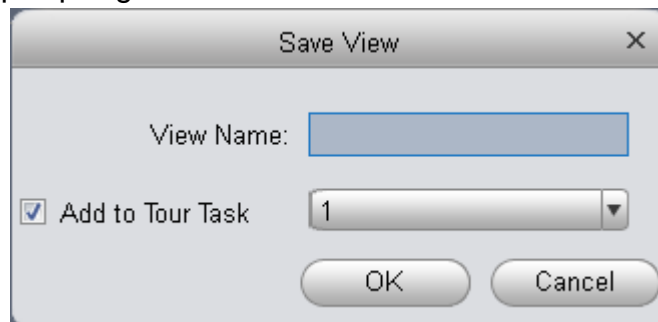



Figure 4-32

- b) Input video name, click OK.
- c) On the right, click View tab, right click newly added view, select Playback.
- d) System auto jumps to playback window, and shows process bar at the bottom.

e) Click  to play record, see Figure 4-27.

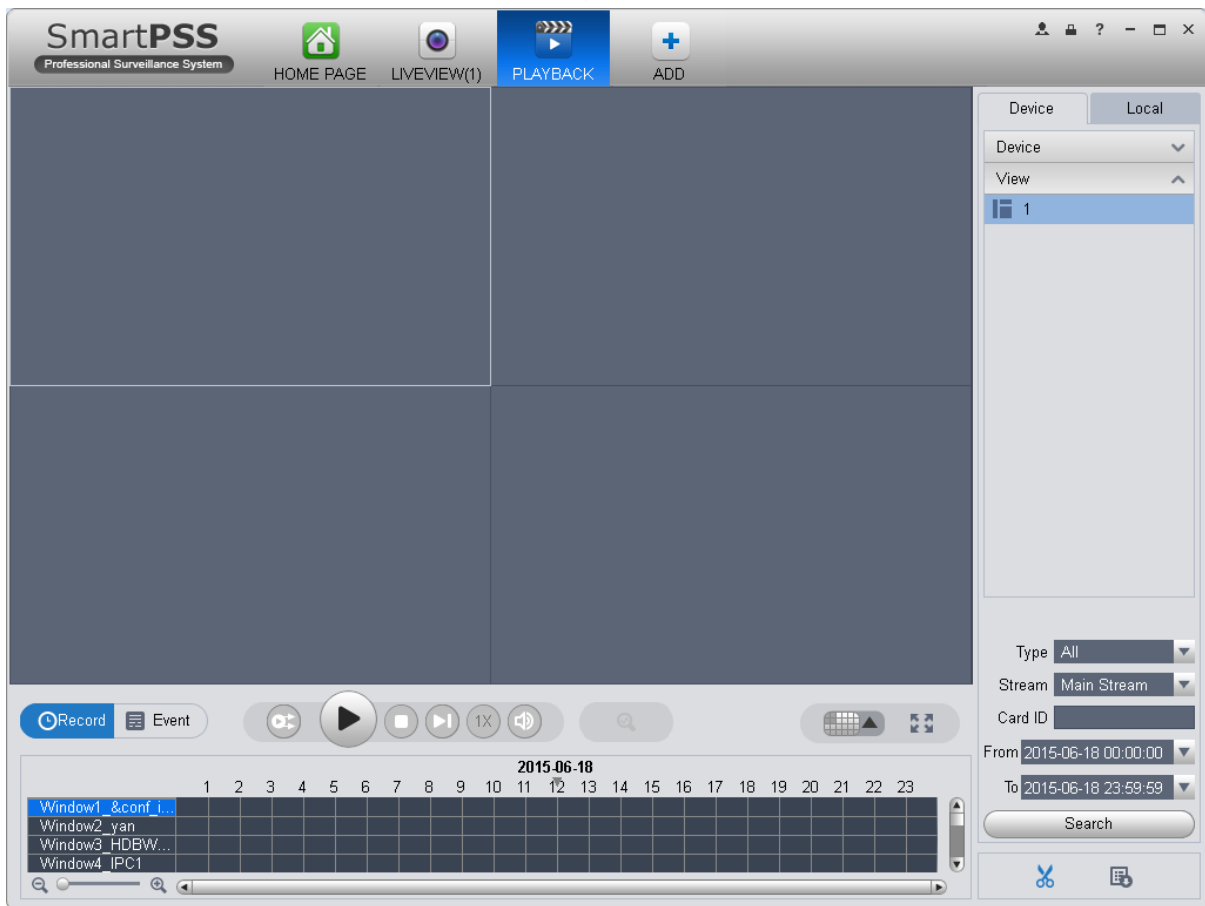






Figure 4-33

4.2.2 Playback Local Record


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


- 1) In Figure 4-27, click Local button on the right pane.
- 2) Check a channel (or some channels) on the device list on the top right pane.
- 3) Set search for record or picture, and select local record or picture time to search.
- 4) Click  to search record or snapshot of the device at Liveview (see Ch 4.1.2 or 4.1.3).


- 5) Now you click  to playback window. And click  to rewind. Click  to view picture.

4.2.3 Export

There are three ways for you to select export records.

- 10) In Device record interface, select periods on the time line and then click  to export records.

11) In Record event interface, select record type and then click  to export records.

12) In Local record interface, check the records first and then click  to export records.

You can see the export interface is shown as in Figure 4-34. Select the corresponding export path and then click OK button to export.

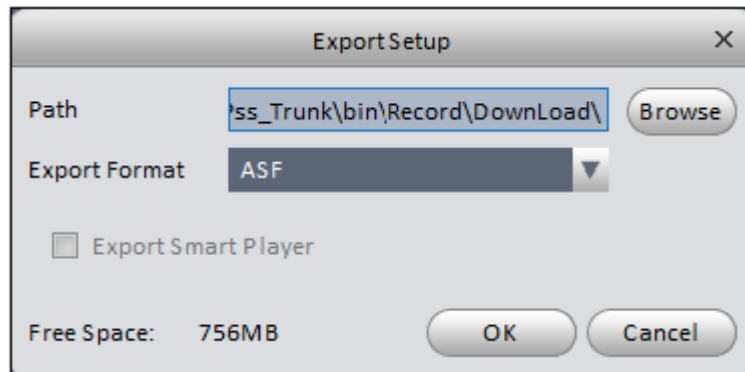


Figure 4-34

You can click  to view exporting and exported conditions.

4.2.4 Fisheye Playback

You can use fish eye to playback device record and local record.

For example to play local record.

In playback window, click local record tab.

After you search out record, you can select fisheye view to playback the record. See Figure 4-29.

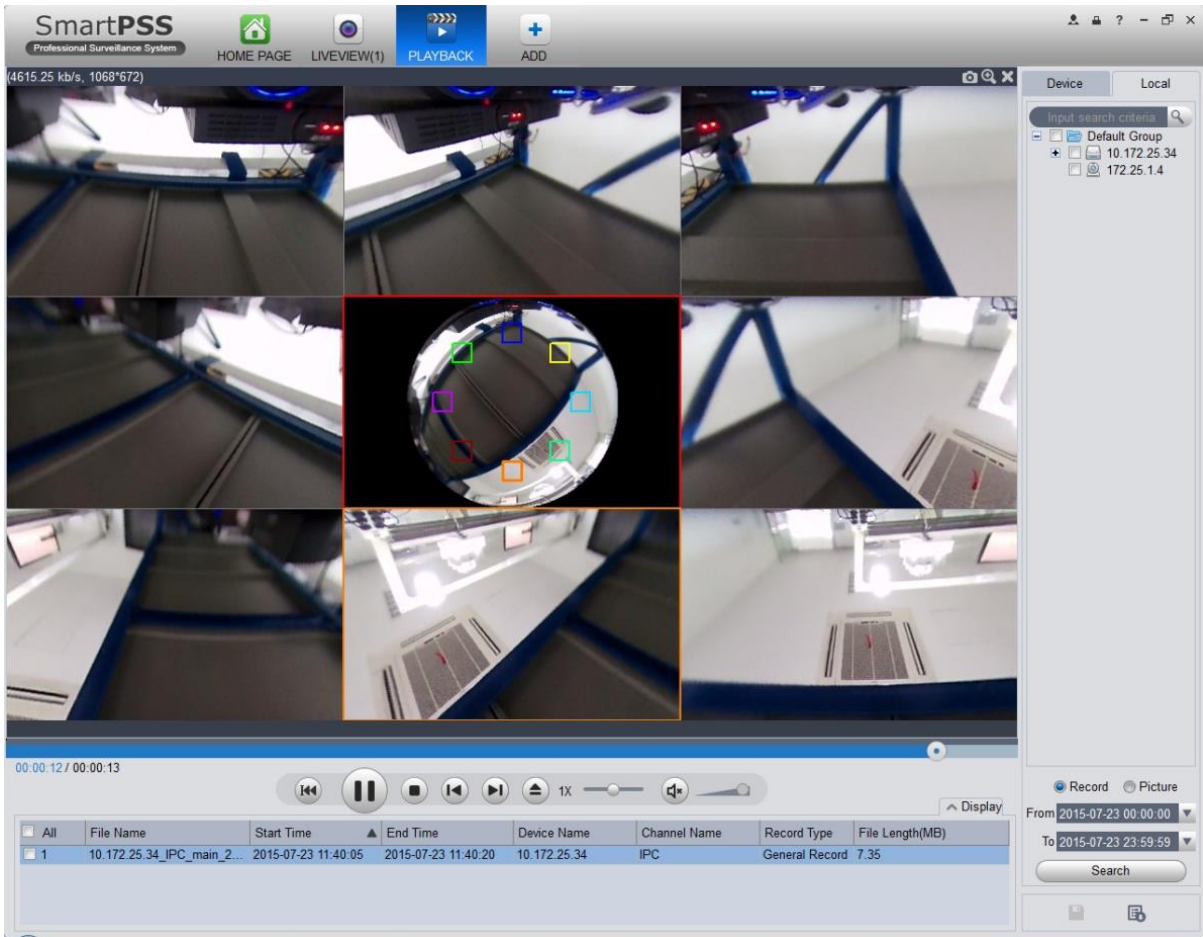



Figure 4-35

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 4-36.

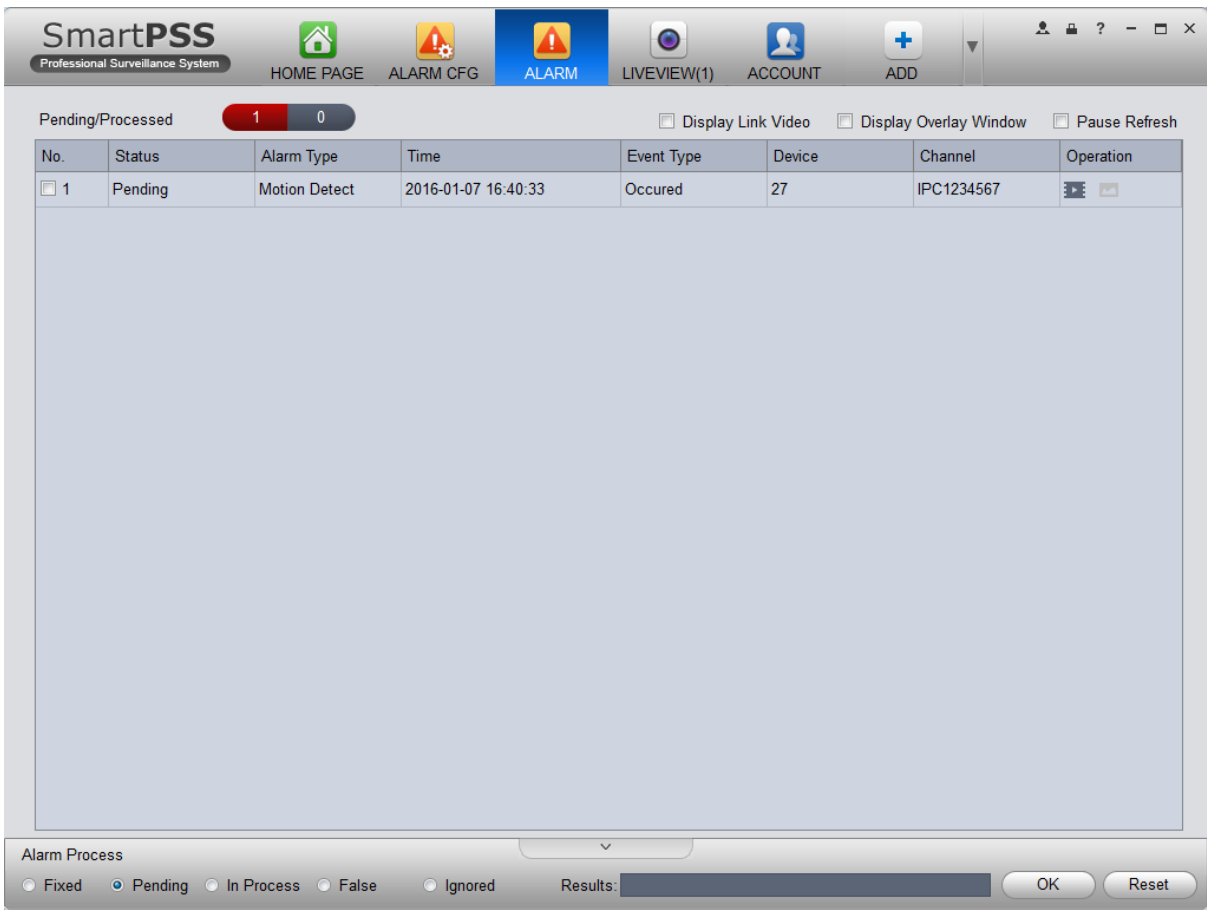




Figure 4-36

You can click  next to operation column in alarm interface to view linked record, and click  to view linked snapshot.

If you have set alarm activation video function in your alarm scheme setup (chapter 3.7), you can see system instantly shows video window. See Figure 4-37.

If you check the box at the bottom of the interface to pause refresh, the new alarm info will not be shown in alarm list instantly. 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.

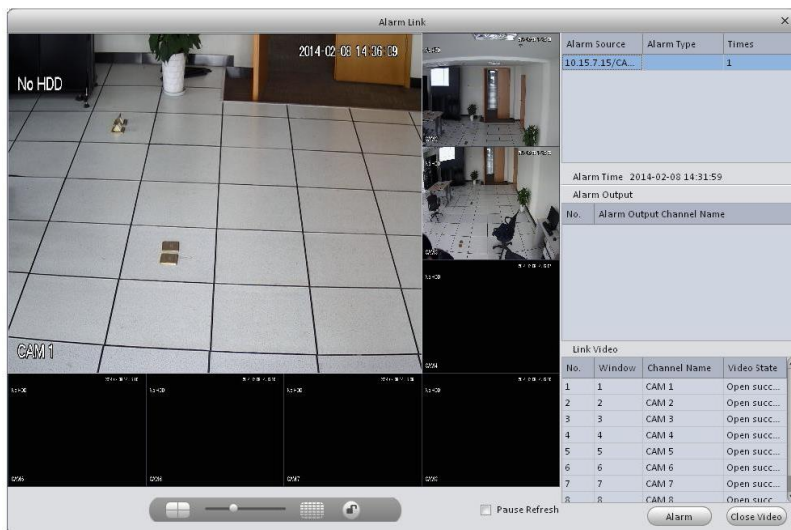


Figure 4-37

4.4 Video Talk

It supports call, live preview, remote unlock, message sending, right config and info search. For fence station, you shall select device type as fence station on WEB. Go to System Settings>Local Config>Device Type, select device type as fence station. In System Settings>LAN Config set building no., unit no. both to 0, set MGT center IP to the installation IP address of SmartPSS.VTO select its building no. and unit no. according to actual condition on WEB. On VTO web, you can create room no., and VTH config self room no. and VTO on device local GUI while room no. must exist on corresponding VTO.

For example, Unit 1, Building 1. VTO WEB can create room no., VTH config its room no. and corresponding VTO on device local GUI.


Note:

After fence station and VTO web interface are configured, you need to add to SmartPSS Client, please refer to Ch 3.5 for steps to add device.

After device is added, in SmartPSS Client video talk interface, in the device tree on the right, building no., unit no. reported by each device will create device tree. Fence station shoes its own name.

4.4.1 VTS Center



In homepage Basic function area, click . System pops up “video talk” VTS interface, see Figure 4-38.

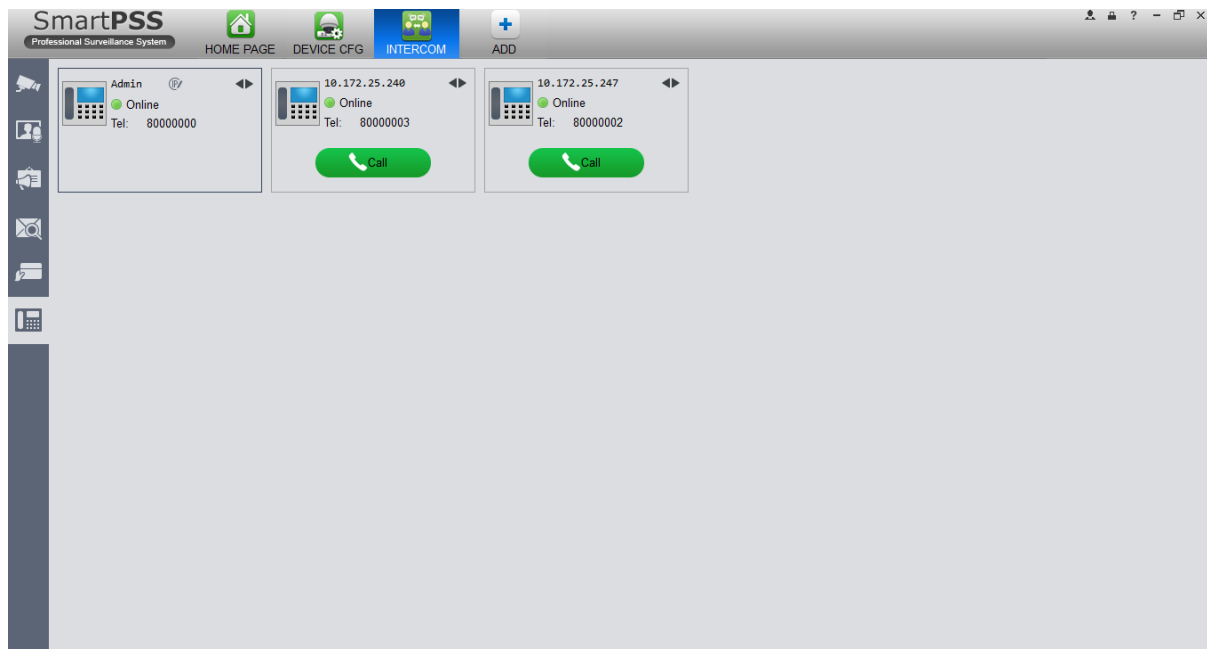



Figure 4-38

VTS address is the address required by talk with device tree, system will auto get local address. If local IP address is not set, the gotten address will be 127.0.0.1. User fill in and confirm, as well

as click  to set again.

A user can select online or offline and in offline status, all incoming calls will auto be transferred to other idle VTS.

Currently only support VTH transfer, cannot transfer VTO. If VTO is connected to VTS directly, then VTS has the priority to answer call.

A user can click sequence button  or click and drag VTH to sort, then incoming call be answer according to this sorted sequence.

A user can answer call or transfer call, see Figure 4-39.



Figure 4-39

4.4.2 Monitor

Click Monitor tab.

In Monitor interface, you can unlock, one-way call fence station or VTO and other operations, see Figure 4-40.

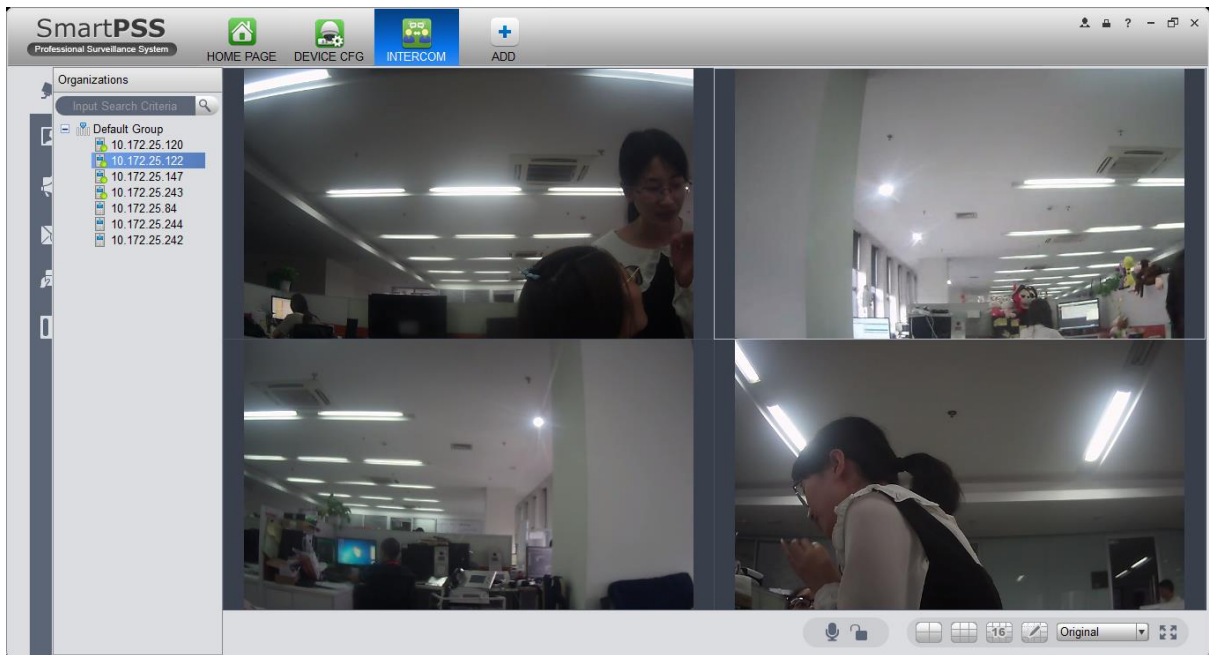










Figure 4-40

Click  in the window, or  at lower bottom, or right click to select  start call.

All of these allow client to one-way call VTO or fence station, so the VTO or fence station can hear call from client.

Click  in the window, or  at lower bottom, or right click to select  unlock.

Click ,  in the window, or right click to select snapshot, start record.

You can snapshot or record the live preview.

In video window, right click menu includes snapshot, record, switch string type, adjust window scale and etc. Please refer to Ch 4.1.

4.4.3 Talk

Click talk tab.

Below contact there is info of fence station or VTO in format of unit, and on the right there is VTH under this unit.

See Figure 4-41.

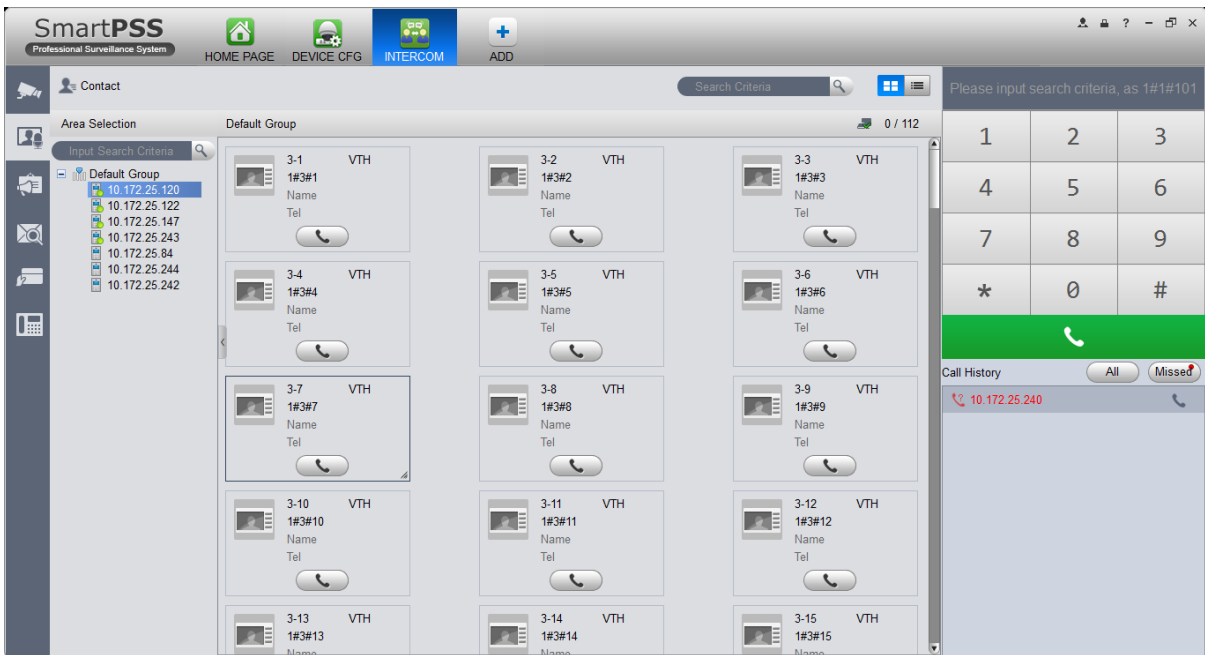






Figure 4-41

Click VTO.

It shows detailed VTH under fence station and VTO,  0 / 112 shows status of device registration to client and VTH online number and total, if  0 / 112 failed, then you can talk to VTO/fence station/VTH; user can click   to switch VTH display mode, see Figure 4-42.

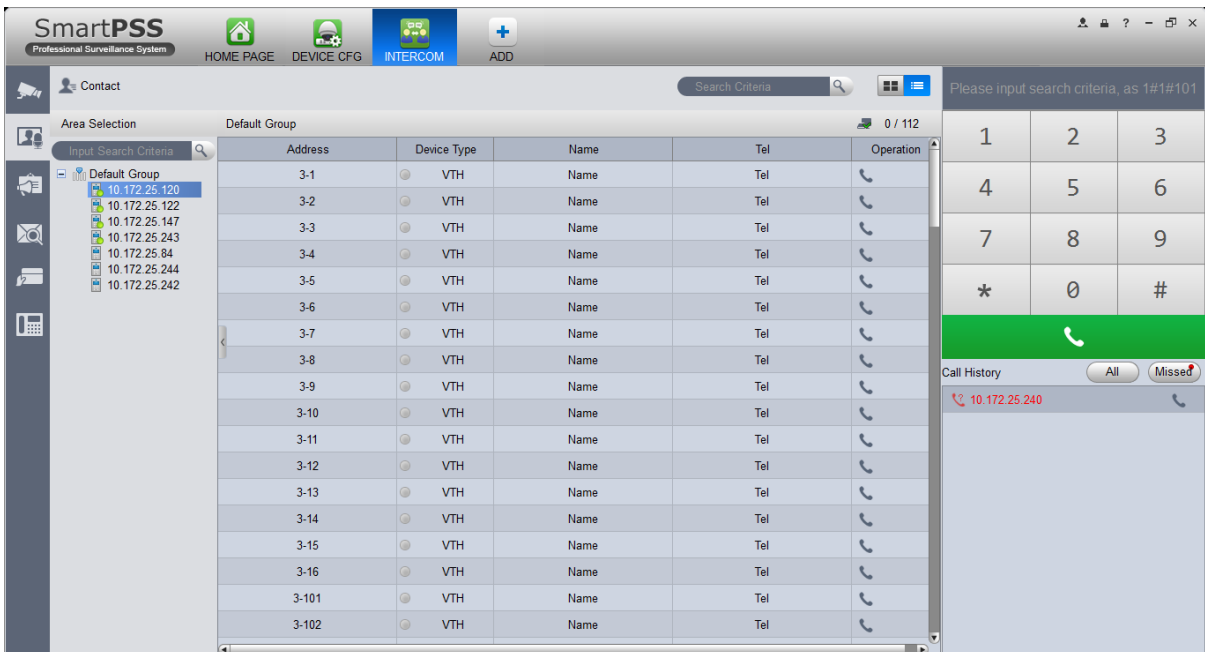


Figure 4-42

- If client needs to call VTO in a certain unit.

1) Right click  VTO and select shout.

System pops up a box, see Figure 4-43.

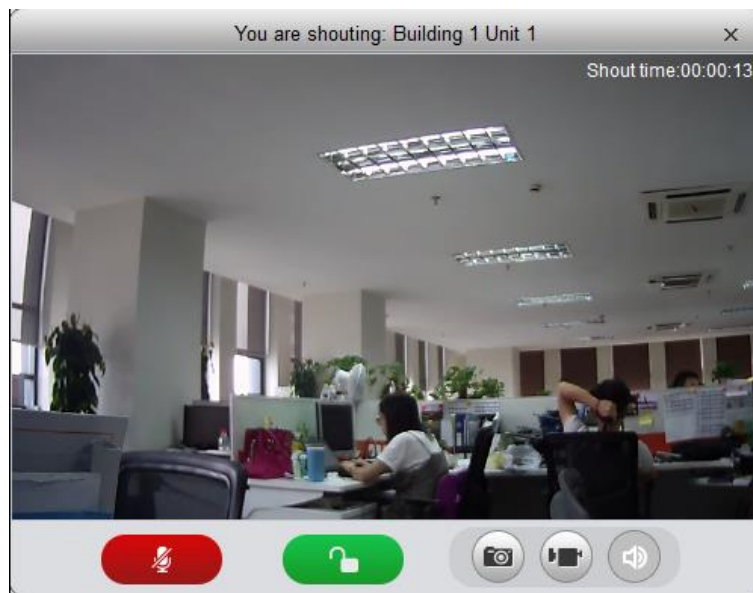




Figure 4-43

2) Click .

3) System pops up dialogue box, click OK.
You can remotely unlock VTO.

4) Click , to stop existing call.
Call window will not close.

- If client needs to call a VTH in a specific room and unit.

1) Click  on VTH name card.

Please note client and VTH can talk to each other as a bidirectional talk.

System pops up a box, see Figure 4-44.

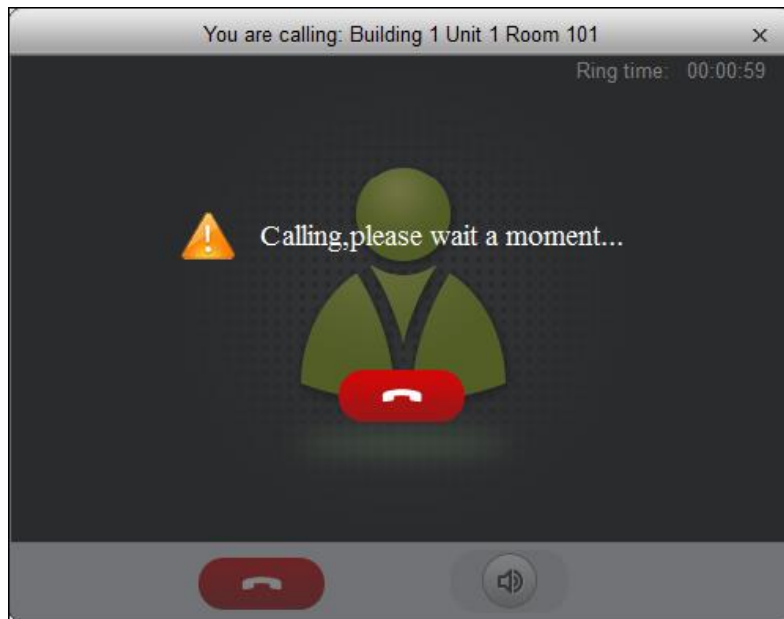


Figure 4-44

- 2) When VTH picks up, client can talk with VTH.
See Figure 4-45.

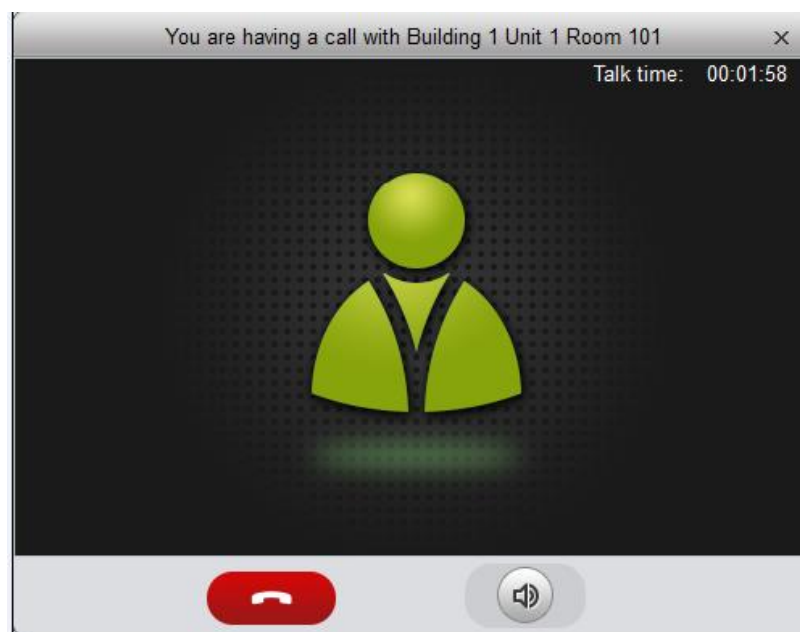


Figure 4-45


- If VTH does not answer over 60s, then client pops up a box to ask if you want to dial again.
You can click  to re-dial.
- If the VTH is busy or hang up call, client will ask you to try again later.
- If VTO is calling client.
Client pops up VTO call box, see Figure 4-46.



Figure 4-46

You can click  to answer VTO call, and start a bidirectional talk.

You can click  to unlock.

- If VTH is calling client.
Client pops up VTH call box, see Figure 4-47.



Figure 4-47

You can click  to talk with VTH.

If there is missed call, in talk interface, in the lower-right, missed calls are shown here. See Figure 4-44.

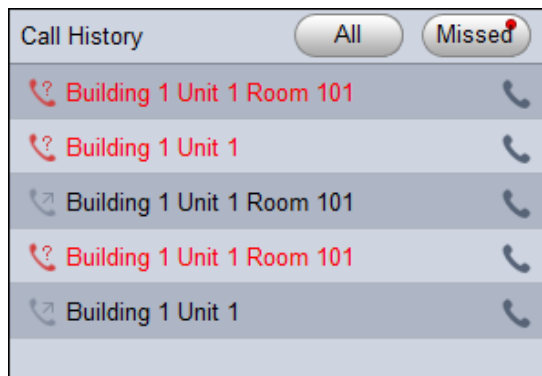




Figure 4-48


You can view all call histories.

Click  to call missed call.

When you search in , it requires accurate building no., unit no., and fuzzy room no. For example, input “1#1#” as to search all devices under unit 1, building 1. If input “1#1#10” as to search all VTHs under room no. 10.

You also can set name and telephone phone number on each device name card and when search, directly input “building no.#unit no.#name keyword” to search.



On the right, you can directly dial  to callVTO as a one-way talk, to call VTH as a bidirectional talk. Example: dial 1#1#6901, as to call Building 1 Unit 1l enter 1#1#101 as to call Building 1 Unit 1 Room 101 VTH.

4.4.4 Announcement

Click announcement tab.

Input title, contents, see Figure 4-49.

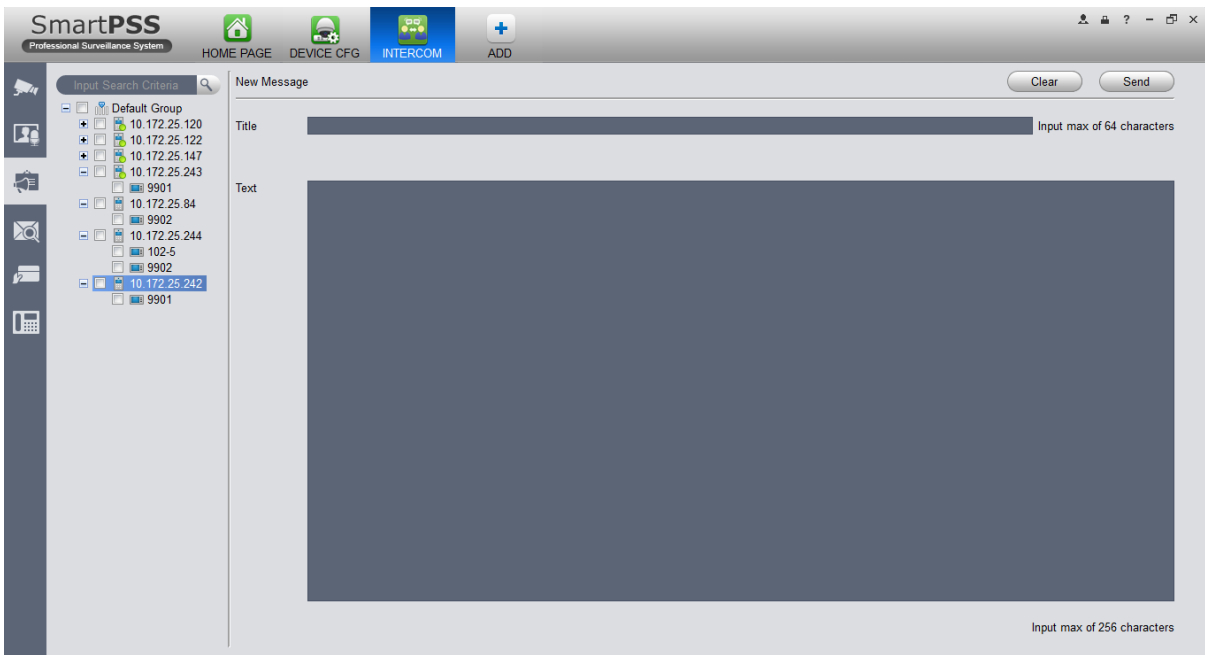


Figure 4-49

In the device list on the right, check one or more VTHs, click send.

During sending, the send button is grey, and if you want to continue to send announcement, you shall wait until the send button resumes. You can view announcement information on VTH.

4.4.5 Info Search

Click Info Search tab, sub tab includes alarm record, unlock record and call record.

Alarm record user can search VTO and VTH alarm event, support pop-up display of VTO alarm event, see Figure 4-50.

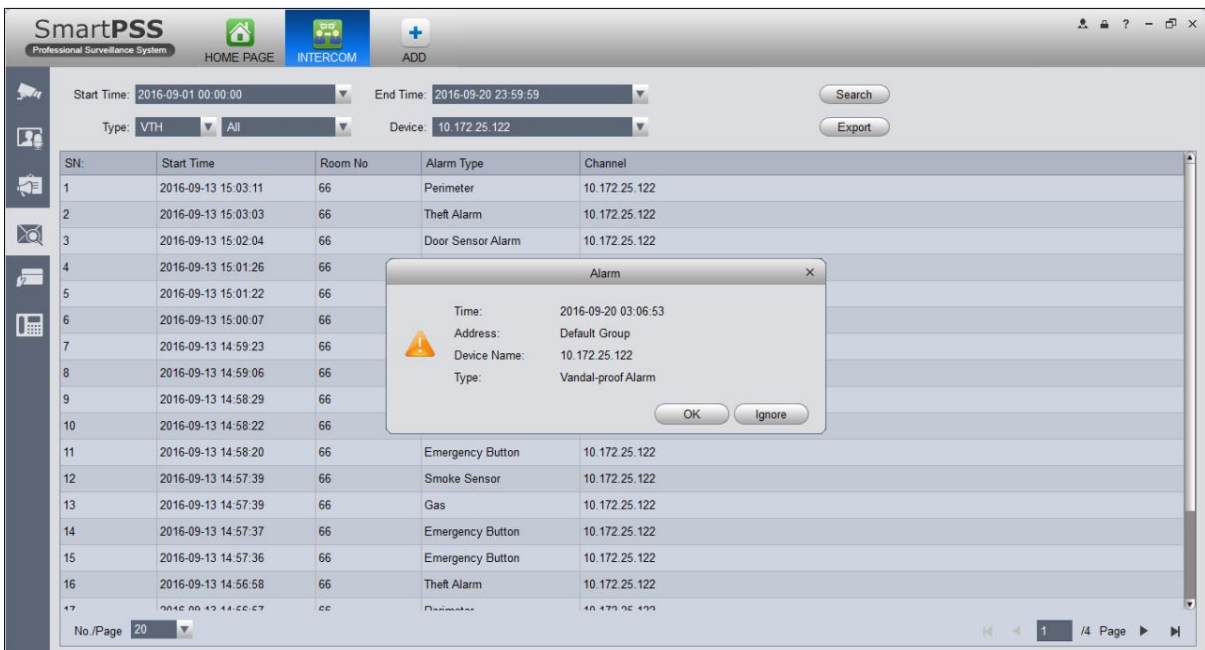


Figure 4-50

Unlock record allows user to search VTO unlock record, see Figure 4-51.

SN	Time	Unlock Type	Room No	User Name	Card No	Result
1	2016-09-14 16:23:33	Password Unlock	1214			Failed
2	2016-09-14 16:14:40	Password Unlock	3613			Failed
3	2016-09-14 16:13:06	Password Unlock	1214			Failed
4	2016-09-14 16:11:06	Password Unlock	1214			Failed
5	2016-09-14 15:50:46	Password Unlock	3613			Failed
6	2016-09-14 15:49:53	Password Unlock	2216			Failed
7	2016-09-14 15:49:45	Password Unlock	2216			Failed
8	2016-09-14 15:49:11	Password Unlock				Failed
9	2016-09-14 15:48:12	Password Unlock				Successful
10	2016-09-14 15:47:51	Password Unlock				Failed
11	2016-09-14 13:59:29	Remote Unlock	203			Successful
12	2016-09-14 11:16:34	Remote Unlock				Successful
13	2016-09-14 11:08:39	Remote Unlock				Successful
14	2016-09-14 11:03:18	Remote Unlock				Successful
15	2016-09-14 10:52:38	Remote Unlock				Successful
16	2016-09-14 10:52:00	Remote Unlock				Successful
17	2016-09-14 10:16:27	Remote Unlock				Successful

Figure 4-51

In call record, user can search VTO call record, see Figure 4-52.

SN	Start Time	End Time	Call Time	Call Type	Room No	Result
1	2016-09-18 16:21:43	2016-09-18 16:21:43	00:00	Outgoing call	9902	No Answer
2	2016-09-18 16:21:08	2016-09-18 16:21:08	00:00	Outgoing call	9902	No Answer
3	2016-09-18 15:21:44	2016-09-18 15:21:44	00:00	Outgoing call	9902	No Answer
4	2016-09-18 11:20:08	2016-09-18 11:20:08	00:00	Outgoing call	9902	No Answer
5	2016-09-18 11:14:05	2016-09-18 11:14:05	00:00	Outgoing call	9902	No Answer
6	2016-09-18 11:10:00	2016-09-18 11:10:00	00:00	Outgoing call	9902	No Answer
7	2016-09-18 10:35:30	2016-09-18 10:35:30	00:00	Outgoing call	9902	No Answer
8	2016-09-18 10:17:54	2016-09-18 10:17:54	00:00	Outgoing call	9902	No Answer
9	2016-09-18 10:13:25	2016-09-18 10:13:25	00:00	Outgoing call	9902	No Answer
10	2016-09-18 09:10:18	2016-09-18 09:10:18	00:00	Outgoing call	9902	No Answer
11	2016-09-18 09:07:35	2016-09-18 09:07:35	00:00	Outgoing call	9902	No Answer
12	2016-09-18 09:05:10	2016-09-18 09:05:10	00:00	Outgoing call	9902	No Answer
13	2016-09-14 18:48:00	2016-09-14 18:48:00	00:00	Outgoing call	9902	No Answer
14	2016-09-14 18:27:43	2016-09-14 18:27:43	00:00	Outgoing call	9902	No Answer
15	2016-09-14 17:24:34	2016-09-14 17:24:34	00:00	Outgoing call	9902	No Answer
16	2016-09-14 17:19:21	2016-09-14 17:19:21	00:00	Outgoing call	9902	No Answer
17	2016-09-14 17:14:22	2016-09-14 17:14:22	00:00	Outgoing call	9902	No Answer

Figure 4-52

4.4.6 Issue Card

Click Issue Card tab, see Figure 4-53.

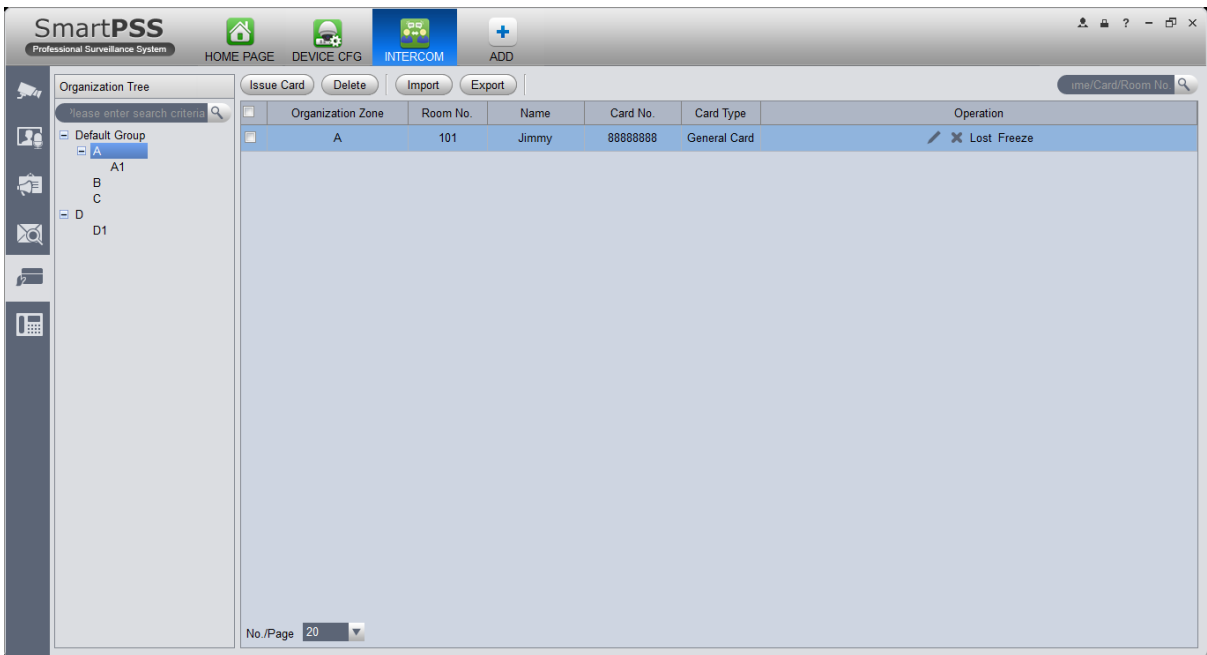



Figure 4-53

In  search, room no., room no. shall be accurate but name support fuzzy search.

When a user selects node where the user issuing card is, then click Issue Card, see Figure 4-54.

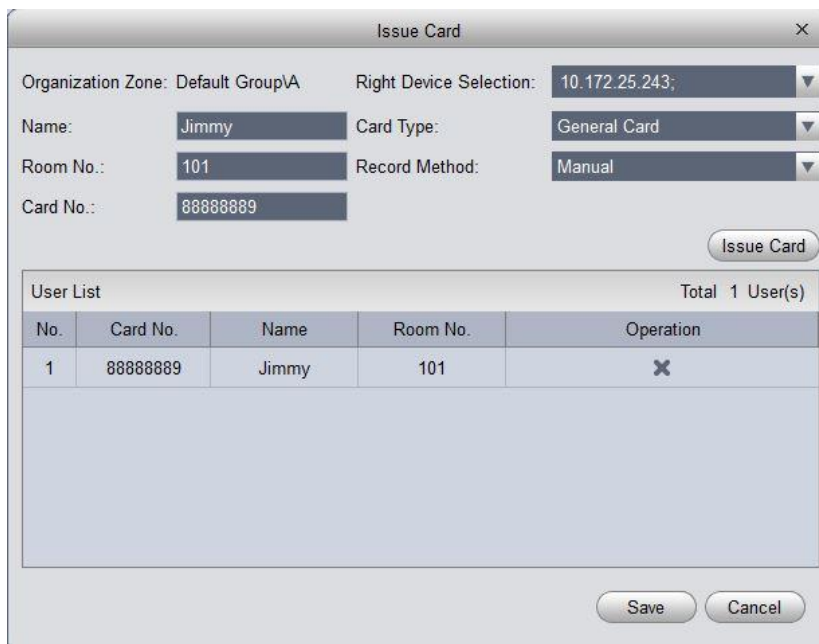


Figure 4-54

Operation steps:

1. User can select device to authorize, click the dropdown list of device, check device (fence station is checked by default); user also can give priority to group config and authorize right to device under this group, and click Link Device on the right of organization node, to select default device.
2. Fill in username.

3. Select card type: user card, administrator card.
4. Fill in room no.
5. Select record method: support manual input and card issuer. Manual issuing requires user to fill in card, and click Issue Card button. If via card issuer, user click Start Read, when card is successfully read, the system will auto link user to card issuer list; if card exists in device, it will fail.

4.5 Access

SmartPSS integrates access control device with effective management and configure of device. It achieves modularization of access business and integrates access with video link and e-map.

Note:

Access controller must be added into SmartPSS client, please refer to device adding steps in Ch 3.5.

Access device default port no.: 37777, username: admin, password: 123456.

Added access controller are all configured in SmartPSS device, please see:

- General-Network (refer to Ch 3.6.1.1), support device IP setup.
- System Maintenance-User (refer to Ch 3.6.4.1), support device password setup.
- System Maintenance-System Maintenance (refer to Ch 3.6.4.2), support device time setup and upgrade.


After device is added, in SmartPSS client Access interface, in device tree on the left, device tree is auto created.



In BASIC area in homepage, click  to enter Access interface.

4.5.1 Console



In Access interface, you can click  on the left to enter Console interface which can monitor and control all access control devices. See Figure 4-55.

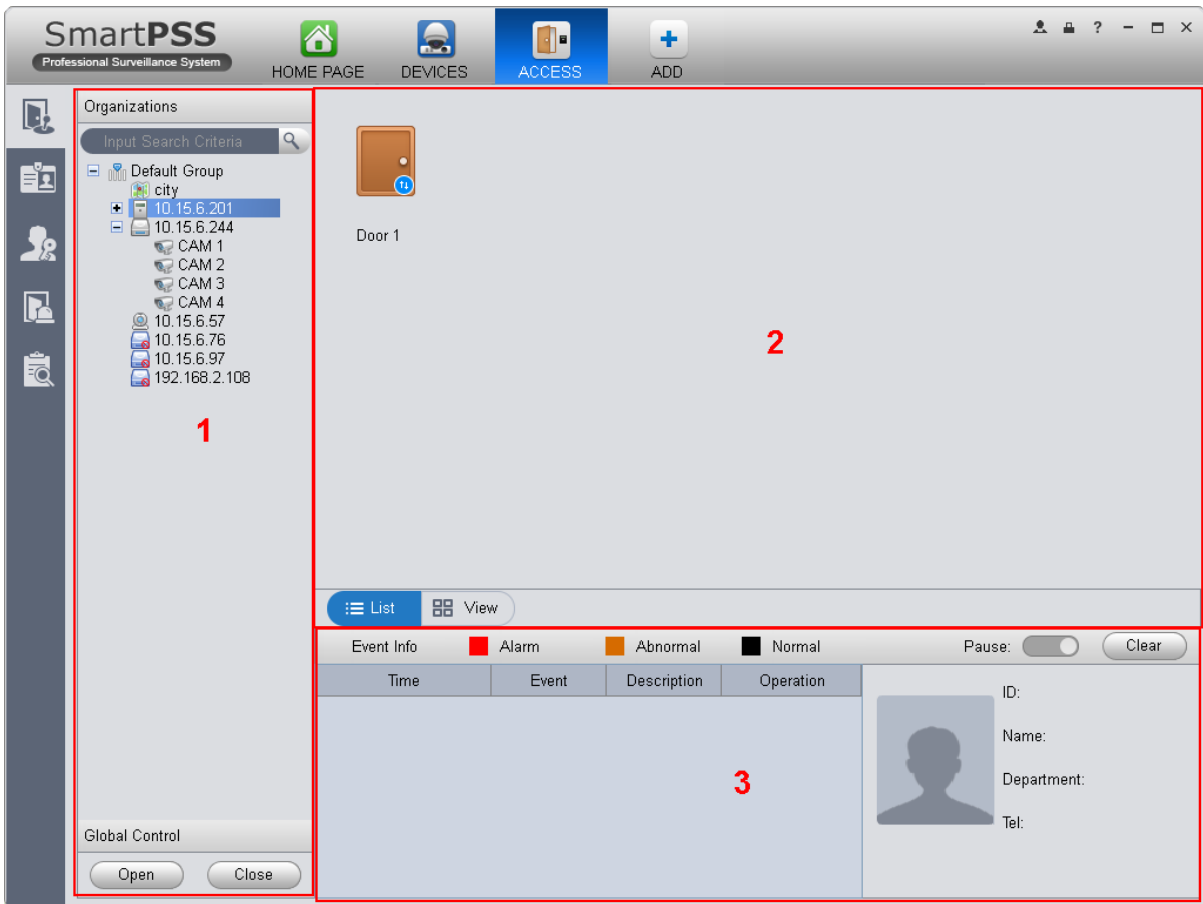


Figure 4-55

No.	Parameter	Note
1	Organizations/ Zones	Organizations: according to device (channel) , set group and e-map. Zones: according to channel, set group, e-map. By default, it shows organizations, you can go to Homepage-Settings-General-Basic, to set organizations. Search support keyword of each node.
2	List/View	List: Access status display and control. View: Video/e-map preview and control.
3	Event	Access event: view alarm event, abnormal event and normal operation. View event: device info and user info.

4.5.1.1 Organizations/Zones

You can right click New Group at node, to drag device or channel into different groups for management, and right click on node, see Figure 4-56.

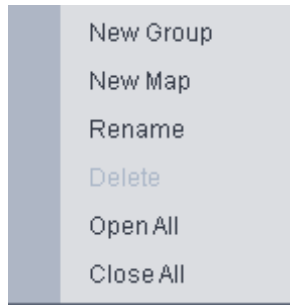


Figure 4-56

Parameter	Note
New Group	Create sub group, rename group and delete group. Note: Only when group node is null, you can delete it. You cannot delete default group.
Open/Close All	Open\Close accesses under all groups.
New Map	Create e-map, click New Map, enter map name and select picture to enter map edit, see Figure 4-51. <ul style="list-style-type: none"> ● Access/video channel dragging ● Video monitoring range setup ● Monitoring range opacity setup ● Add hot zone, max 3 hot zones ● Edit map ● Save map

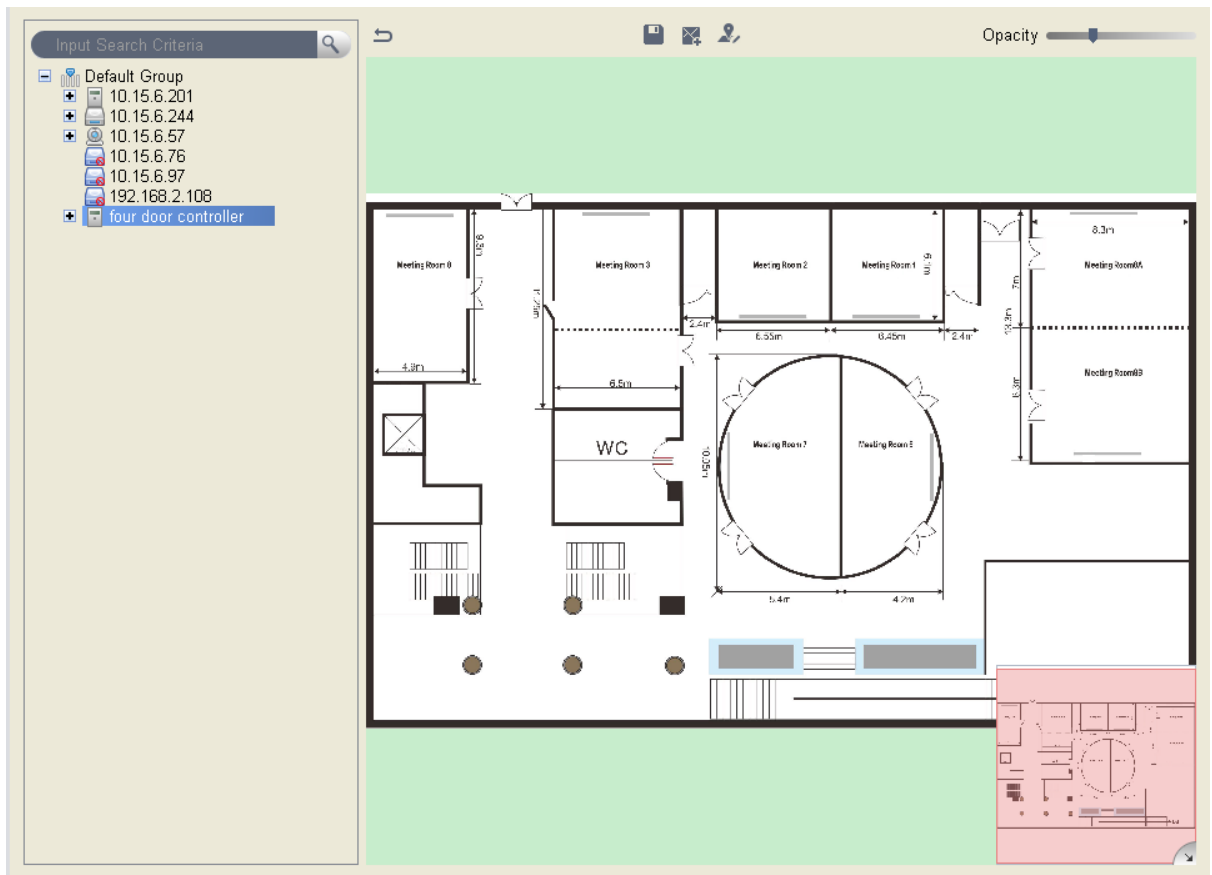


Figure 4-57

You can right click at access device node and operate device, see Figure 4-58.

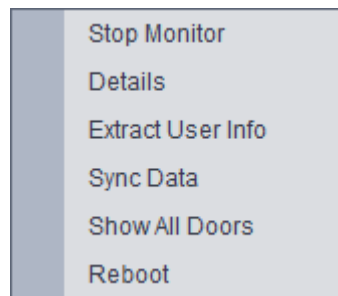


Figure 4-58

Parameter	Note
Real-time Monitoring	Real-time extract device event info.
Details	Device details search, including: device name, device IP, device type, device model, device status, SN, and version.
Extract Card Info	Extract device stored card info and fingerprint info, support to export and import into user management (to department node be default).

Parameter	Note
Sync Data	Delete all device info (excluding card record and alarm record), sync user data with device, the data include right, (user-related, period), anti-pass back, inter-lock, first card unlock and multi-card unlock.
All Doors	Display all channels.
Reboot Device	A&C device reboot remotely.

You can right click at access channel node, and operate device, see Figure 4-59.

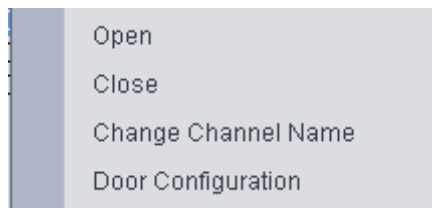


Figure 4-59

Parameter	Note
Open/Close	Client remotely open/close door.
Change Channel Name	Edit channel name and channel display/hide.
Door Configuration	Door parameter setup, please see Figure 4-60.



Figure 4-60

- Reader (card reader): support naming of reader, and setup of entry/exit status. The following is default setup.
 - Single door one-way: 1 in 2 out.
 - Dual door two-way: 1/3 in, 2/4 out.
 - Four door one-way: 1/2/3/4 in
 - ◆ Access status: normal, NO, NC
 - ◆ Door lock hold time: 1s~600s.
 - ◆ Door not locked timeout: 1s~9999s.
 - ◆ NO period: within access period, door is normally open; close by default.
 - ◆ NC period: within access period, door is normally clock; close by default.
 - ◆ Holiday period: within access period, in holiday period, holiday period has priority; null by default.
 - ◆ Unlock method: support card, password, fingerprint, card+password, card+fingerprint, card or password or fingerprint, by period.

Note:

When a door is set to multi-card unlock, unlock method is invalid, see Ch 4.6.3.17.

- ◆ By period: support Monday-Sunday, four periods per day, each period supports a different unlock method.
- ◆ Alarm enable:
 - Duress: forced to swipe card, alarm occurs
 - Intrusion: intrusion, alarm occurs
 - Timeout: door not locked, alarm occurs
- ◆ Sensor enable: door open status is judged according to door sensor

You can right click within tree range to achieve one-level directory grouping and tree sequence, see Figure 4-61.



Figure 4-61

Parameter	Note
New Group	Level 1 directory grouping.
Sort by Type	Sequence according to device/channel type.
Sort by name (default)	Sequence according to name.

You can right click in e-map node, and edit, delete and rename e-map.

Global control can achieve one-click NO/NC of all access channels under emergency.

4.5.1.2 List/View

In list mode you can achieve access live preview and monitoring, see Figure 4-62.

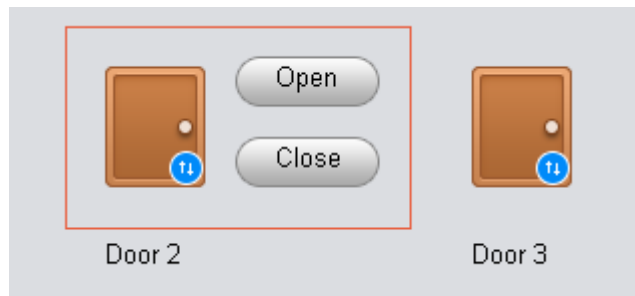


Figure 4-62

You can preview video and e-map in view mode, see Figure 4-63.

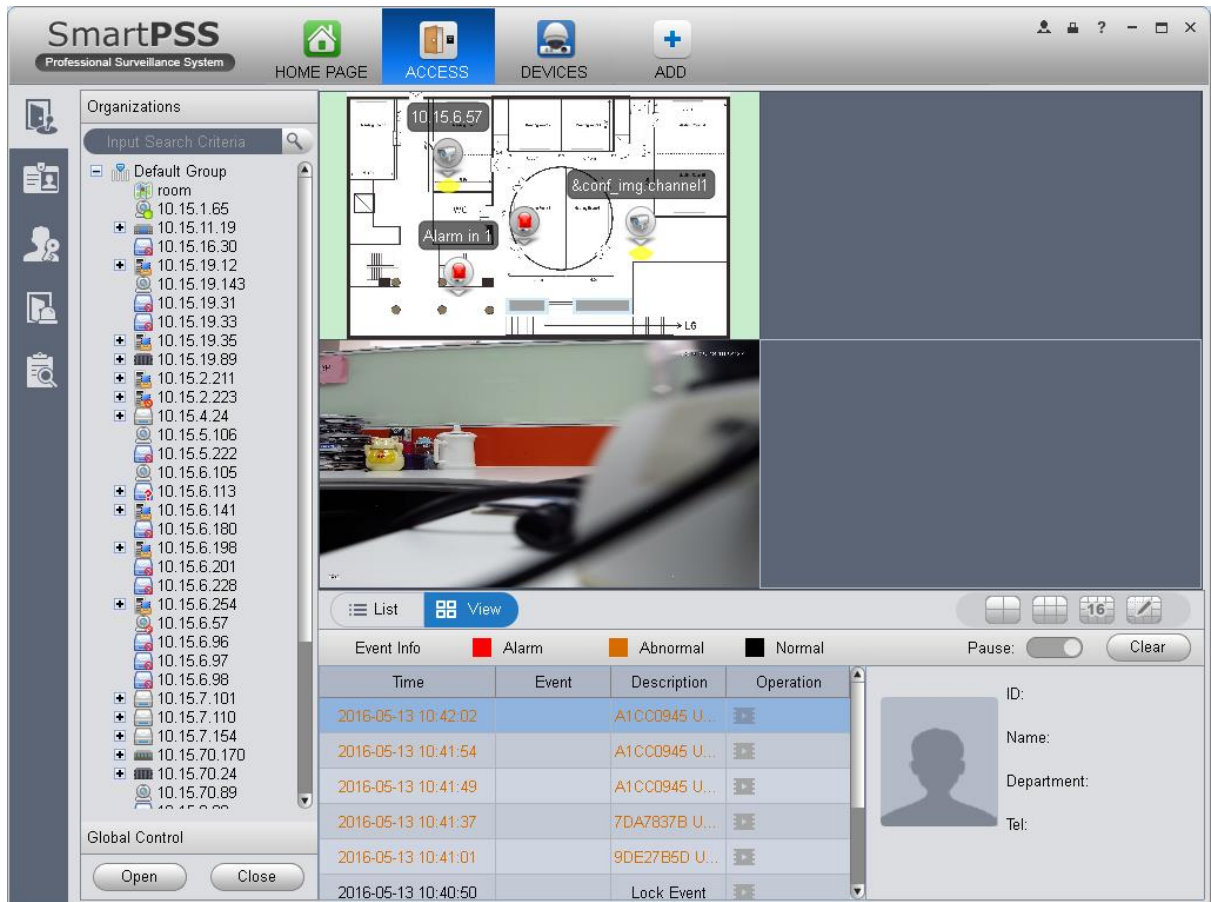


Figure 4-63

- Video preview: please refer to Ch 4.1.1.
- E-map preview: After you edit map, you can drag e-map into video window for preview. Scroll your mouse to zoom in/out; click (or move mouse to range within camera) camera icon on map to open video, right click access control on map to enable/disable access.
- Right click in e-map preview window, see Figure 4-64.

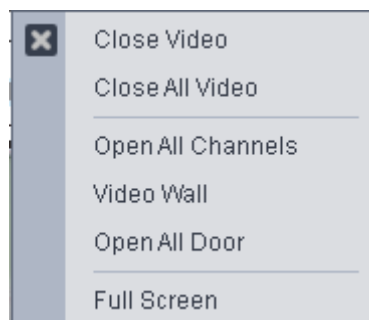




Figure 4-64

Parameter	Note
Close Video	Close current e-map window.
Close All Video	Close all video windows.
Open All Channels	Open all channels on e-map
Video Wall	Output all video channels in e-map to video wall
Open All Doors	Open all accesses on e-map
Full Screen	Display current window in full screen

You can click  to switch video format. The first three formats are standard formats in your favorites, click  to split interface, see Figure 4-65.

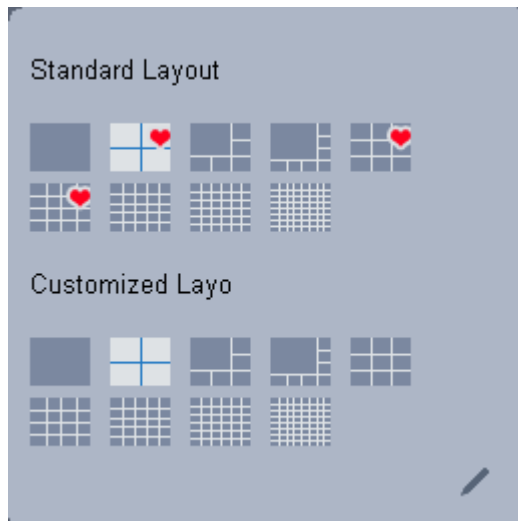


Figure 4-65

You can click add to favorite icon (red heart) to add format into favorties.

Standard split: 1, 4,6, 8, 9, 16, 25, 36, 64.

Custome split: there are 9 types of custom split, see Figure 4-66.

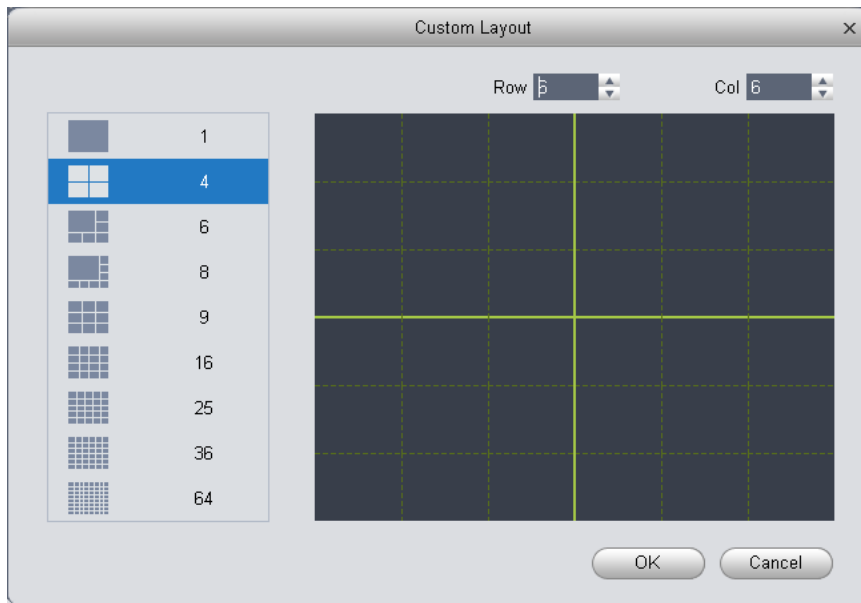


Figure 4-66

4.5.1.3 Event

You can view all live preview access events and their details of monitored device, see Figure 4-67.

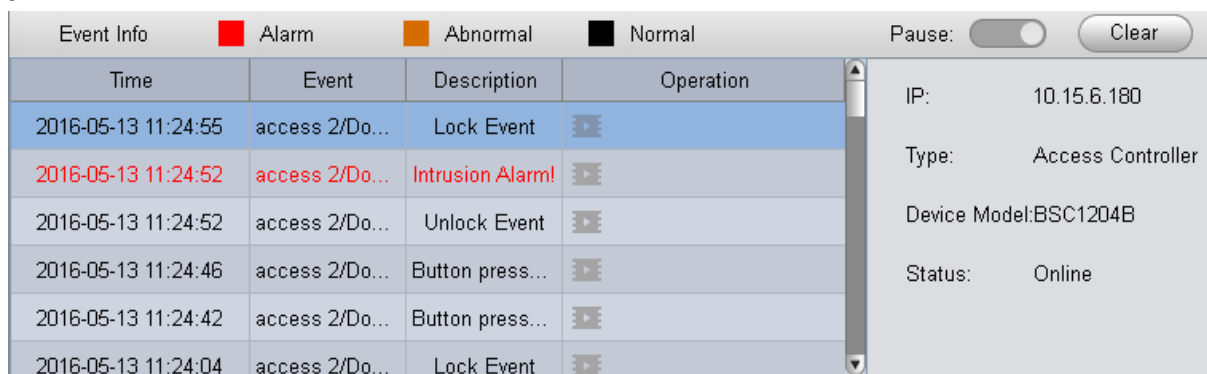



Figure 4-67

Parameter	Note
Lock	Lock event in current event info, during the period the locked event will not be shown in list but user can search for it in log.
Clear	Clear event in current event info, not delete it from log.
User Info	User info: photo, name, department, tel
Device Info	Device info: device IP, device type, device model, device status (online, offline)

4.5.2 User Management

In Access interface, you can click  on the left to enter User Management interface, to manage all users. See Figure 4-68.

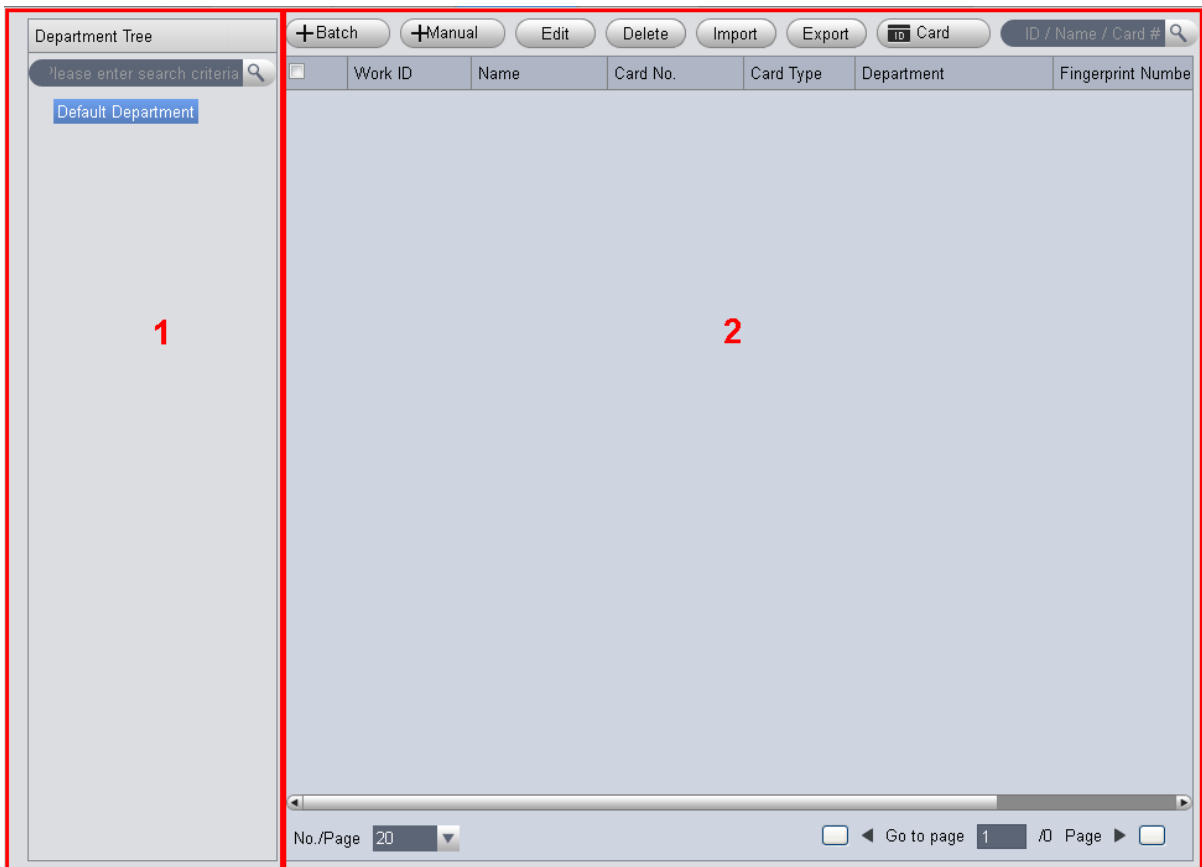


Figure 4-68

No.	Parameter	Note
1	Department Tree	Department management, support to add/delete/edit department organization and people count.
2	User Info	User management, show corresponding user info under department node. Sort card issuing, lost, frozen, edit and etc. of user. Sort user.

4.5.2.1 Department Management

At department node or blank area in department tree, you can right click to operate, see Figure 4-69.



Figure 4-69

Parameter	Note
Add Department	Add department sub node or level 1 department node. Name of departments at same level cannot be repeated.
Edit Department	Edit department name.
Delete Department	Delete existing department. You cannot delete department which contains user.
Search Department	Support search of department node keyword

4.5.2.2 User Management

In User Management interface, you can click  button, select type of card you use, see Figure 4-70.

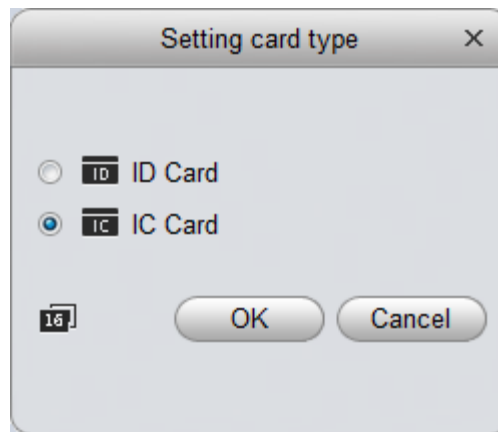


Figure 4-70

It supports ID/IC cards

Warning:

If card type and card reader do not match, then you cannot read card no.!


In User Management, you can click  button to manually add user info. User info mainly includes basic info, fingerprint, details, see Figure 4-71 to 4-73.



Figure 4-71

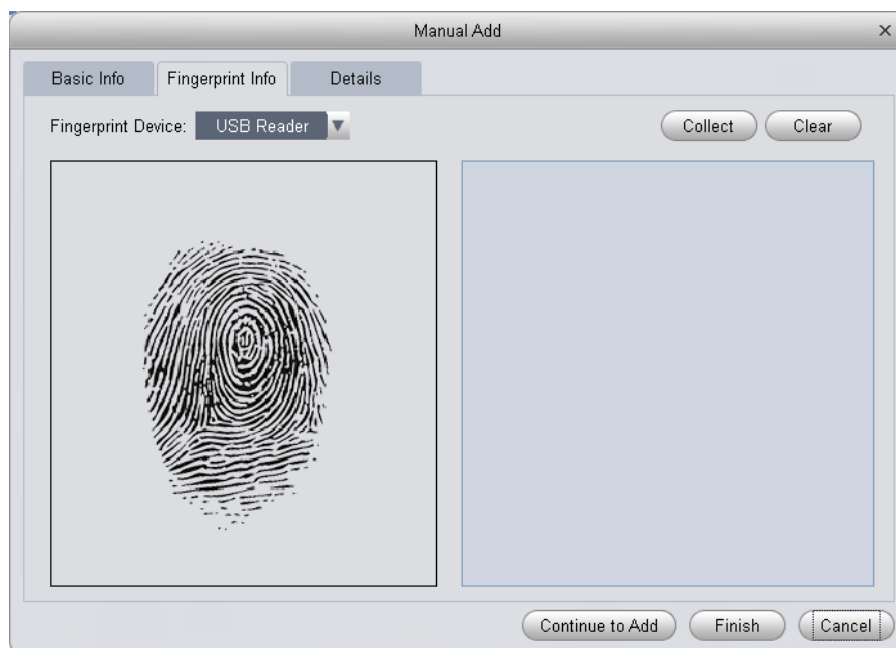


Figure 4-72

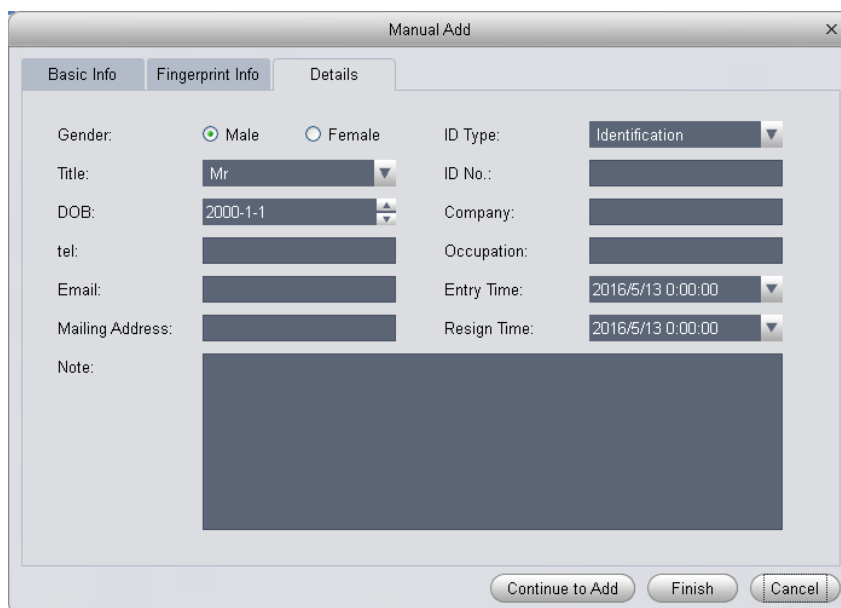


Figure 4-73

Parameter	Note
Basic Info	<p>User ID 【mandatory】</p> <p>Name 【mandatory】</p> <p>Department</p> <p>Card no.: input by card reader and manually</p> <p>Card type: general card, VIP card, guest card, blacklist card, patrol card, and duress card</p> <p>Unlock password: only used for unlock via password</p> <p>Card password: used for card+password unlock</p> <p>Number of use: only for guest card</p> <p>Validity: card validity, 10 years by default</p> <p>Picture: user photo, max 120K</p>
Fingerprint Info	<p>Collect fingerprint via fingerprint device and reader</p> <p>V1 fingerprint: Each user can have up to 3 fingerprints</p> <p>V2 fingerprint: Each user can have up to 2 fingerprints</p> <p>Support input of fingerprint name</p>
Details	Gender, title, education and etc.

Warning:
User ID and card no. cannot be repeated!

In User Management interface, you can click  button to batch issue card, see Figure 4-74.

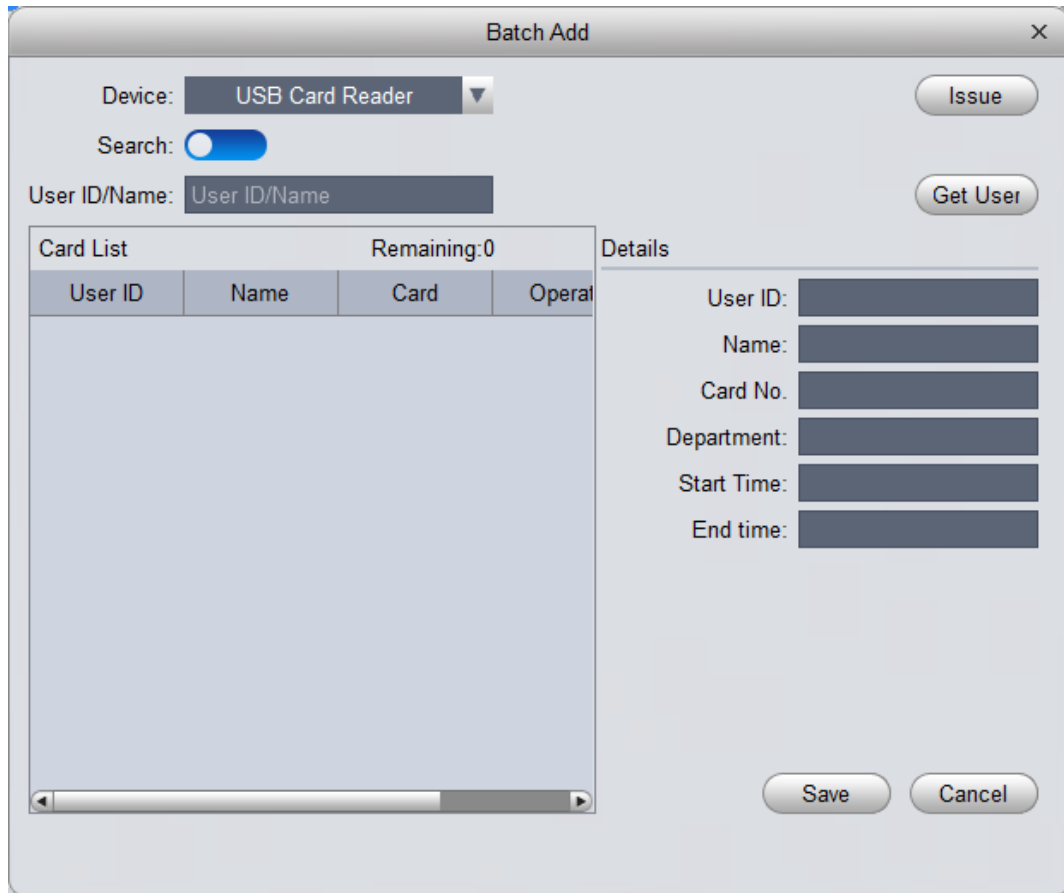


Figure 4-74

Parameter	Note
Batch Issue Card by User	<p>Step:</p> <p>Manually check user to want to issue card to 【auto filter out users already have card】</p> <p>Click Batch</p> <p>User select card issuing device: support card issuer and card reader of controller.</p> <p>Click read card no, and device starts to read.</p> <p>Place card on device, link user to card no. one by one.</p> <p>Click save to complete card issuing.</p>

Parameter	Note
Batch Issue Card by Work ID	<p>User click to batch issue card</p> <p>Enable <input checked="" type="checkbox"/> Search: <input checked="" type="checkbox"/></p> <p>Enter starting User ID 【auto filter out users already have card】</p> <p>Click to get user and complete adding user to have card.</p> <p>Click read card no., so device starts to read card no.</p> <p>Place card on device one by one to link card to work ID by sequence.</p> <p>Click save to complete.</p>

In User Management, you can click button to edit user, see Figure 4-75.

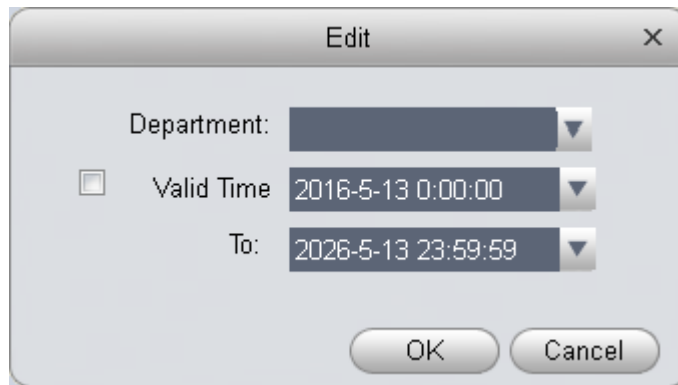



Figure 4-75

Parameter	Note
Department	<p>Check user you want to edit.</p> <p>Click Edit.</p> <p>Select new department.</p> <p>Click OK.</p> <p>Complete.</p>
Validity	<p>Check user you want to edit.</p> <p>Click Edit.</p> <p>Check valid time.</p> <p>Set time.</p> <p>Modified valid time will be sent to device.</p> <p>Complete.</p>

In User Management interface, click  button to delete user. Check user you want to delete, click Delete. Confirm that all information and rights of the user you are doing to delete will be deleted from the device.

You can click either of   to import/export user info.


Import/export info includes: work ID, name, card no., card type, department, fingerprint name, fingerprint name.





Note:


During data importing, it auto generates department.

Warning:

If imported data (User ID/card no.) already exists, it will not import the information.

In User Management interface, you can click .

Parameter	Note
	Modify user info.
	Delete user info.
	Clear user card no. and delete card info in device.
	Freeze card no. in device. You can click unfreeze if you want to restore frozen card.


In User Management interface, you can click  to search keyword of user.

Note:

Work ID and name support fuzzy search.

Card no. supports accurate search.

4.5.3 Permission Management

In Access interface, you can click  on the left to enter Permission Management which allows management of right about user issuing card.

4.5.3.1 Door Group Right

In User Management interface, you can click door group right, and set a specific period of time, a specific door or door group can be unlocked via verification, see Figure 4-76.

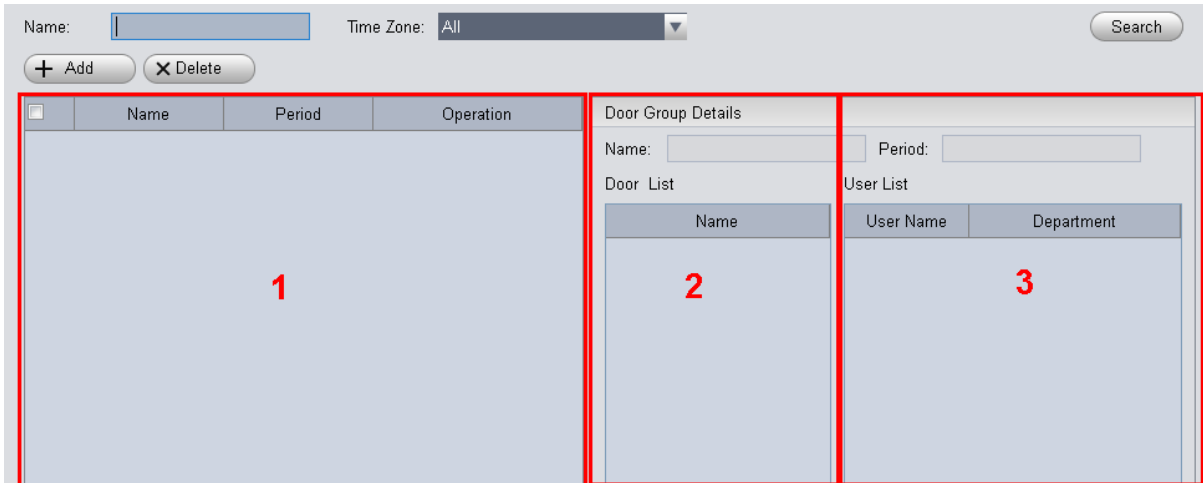


Figure 4-76

No.	Parameter	Note
1	Door Group Info	Client door group info list
2	Door Group Details	Details of current door group
3	User Info	User right info of current door group

In Door Group Right interface, click , see Figure 4-77.

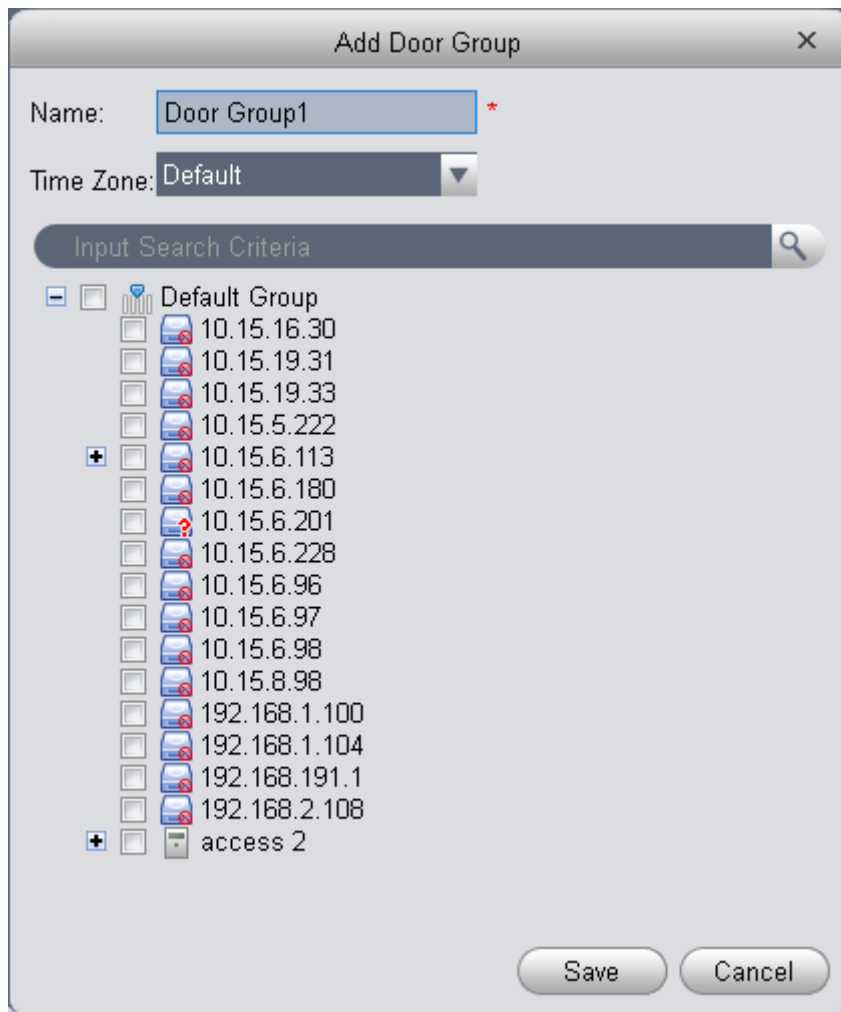



Figure 4-77

- 1) Enter name of door group, which cannot repeat existing door group name.
- 2) Select access period.
- 3) Check door, click Save.

Click  button to re-edit door group info.

Warning:

Door group name cannot be repeated!

In Door Group Right interface, click  to add use right, see Figure 4-78.

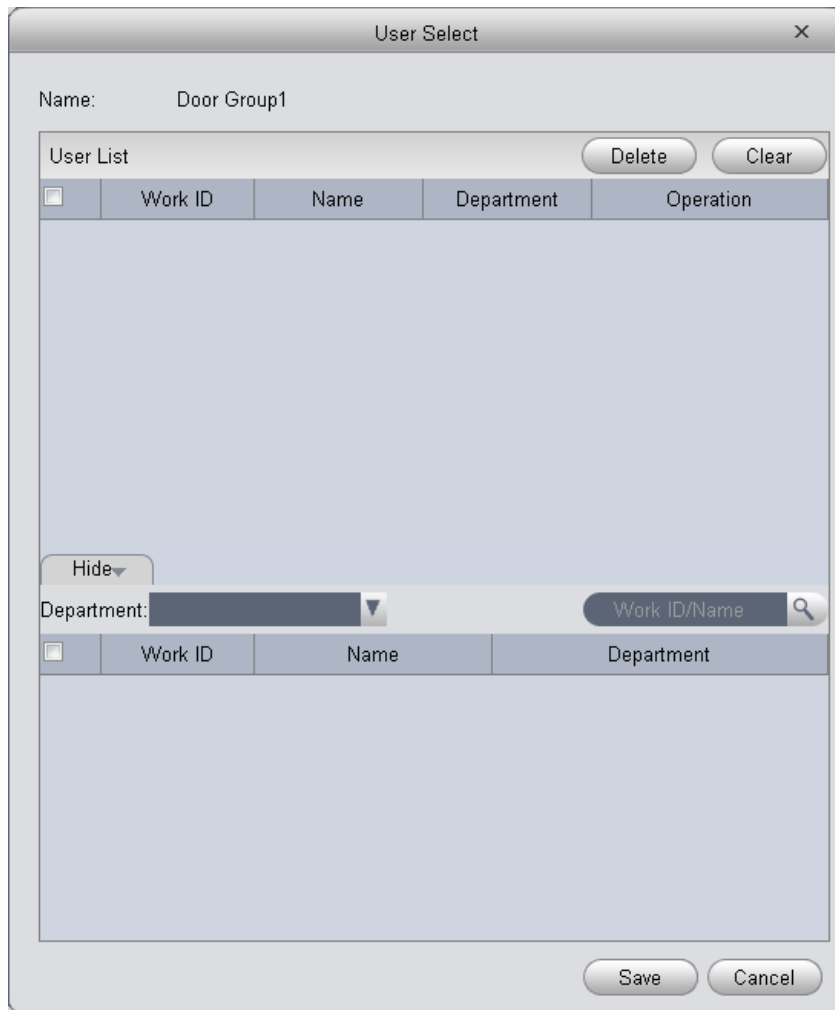


Figure 4-78

No.	Parameter	Note
1	User List	Existing user info with door group right
2	Search List	Info of user without door group right

- 1) In search list dropdown list, select department of user you want to add or directly enter User ID or name.
- 2) In search list check searched user and add to list.
- 3) You can delete user who already has right.
- 4) Click Save, to complete the selected user into all door groups.

Note:

In search list filter out user who do not have card no. info.

In Door Group Right interface, you can click  button to delete all information and right of the door group in the system.

Warning:

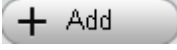
During right issuing process, please sure client and device are will connected.

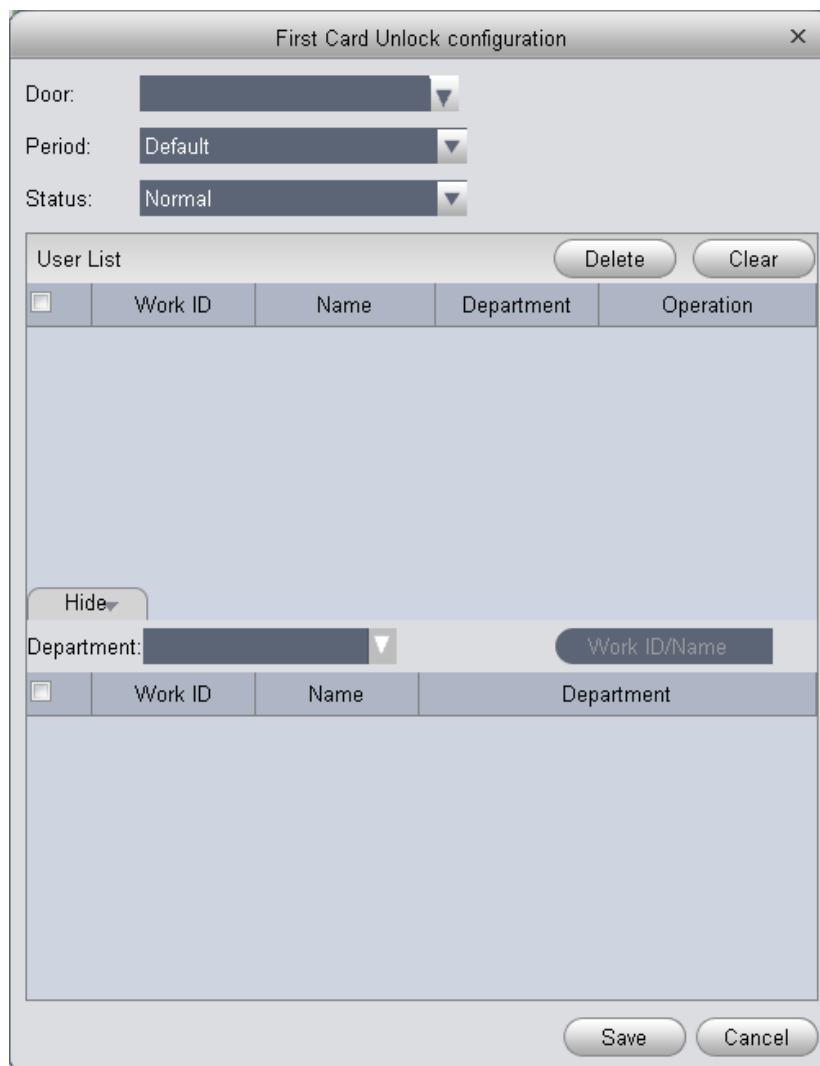
4.5.3.2 User Right

In User Management interface, you can click  in User Right interface to add specific user into access right list, or delete specific user from list.

- 1) Check or cancel checked door group.
- 2) Click OK as to confirm cancellation or adding of personal user right.

4.5.3.3 First Card Unlock

In Permission Management interface, click First Card Unlock, you  button to set within specific period, only when user with first card unlock right pass verification for the first time, door status will be normal or NO and will be close after this period ends, see Figure 4-79.



The dialog box titled "First Card Unlock configuration" contains the following elements:

- Three dropdown menus: "Door:", "Period:" (set to "Default"), and "Status:" (set to "Normal").
- A "User List" section with "Delete" and "Clear" buttons.
- A table with columns: , Work ID, Name, Department, and Operation.
- A "Hide" button.
- A "Department:" dropdown menu and a search input field labeled "Work ID/Name".
- A second table with columns: , Work ID, Name, and Department.
- "Save" and "Cancel" buttons at the bottom.

Figure 4-79

- 1) Select to enable first card right door.
- 2) Select period.
- 3) In search list, select user with first card right.
- 4) Check user.
- 5) Click Save.

Warning:

For user who is auto filtered out in search list due to lack of right of the door, he/she must be given right of this door by first card right holder.

4.5.3.4 Multi-door Lock

You can click Multi-door Lock to set that a specific door can be unlocked only when specific users of a group all pass verification in a specific order. Before verification is passed, the users must verify in the designated order. You can click User Group Management button to set group info. See Figure 4-80.

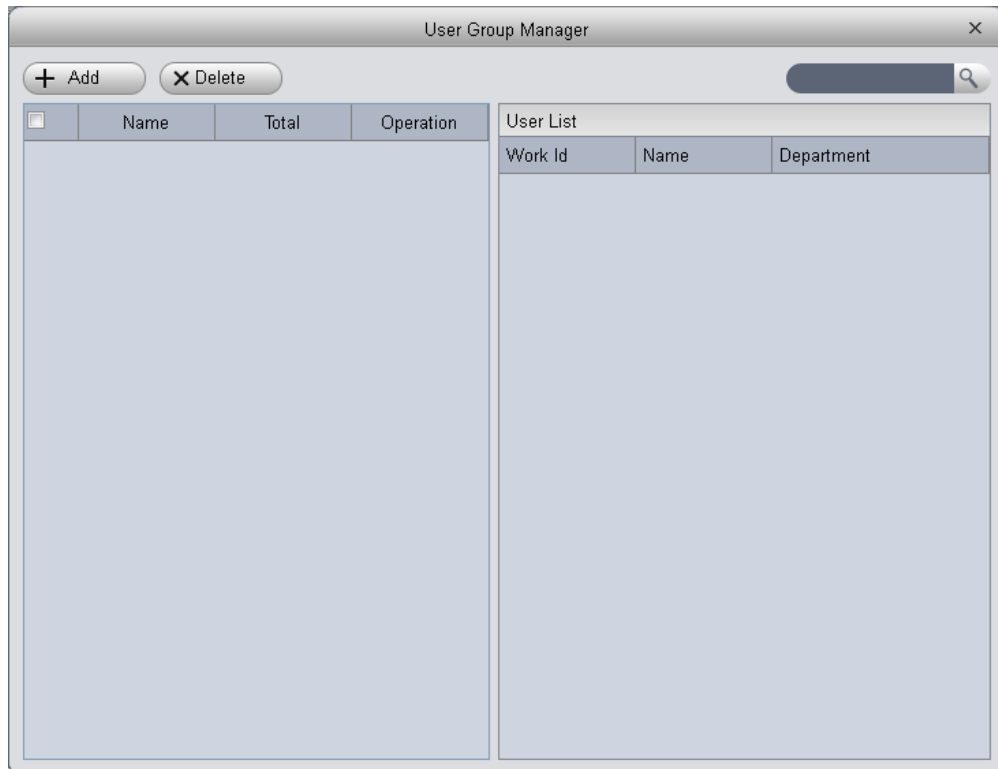



Figure 4-80

- 1) In User Group Management interface, click , see Figure 4-81.

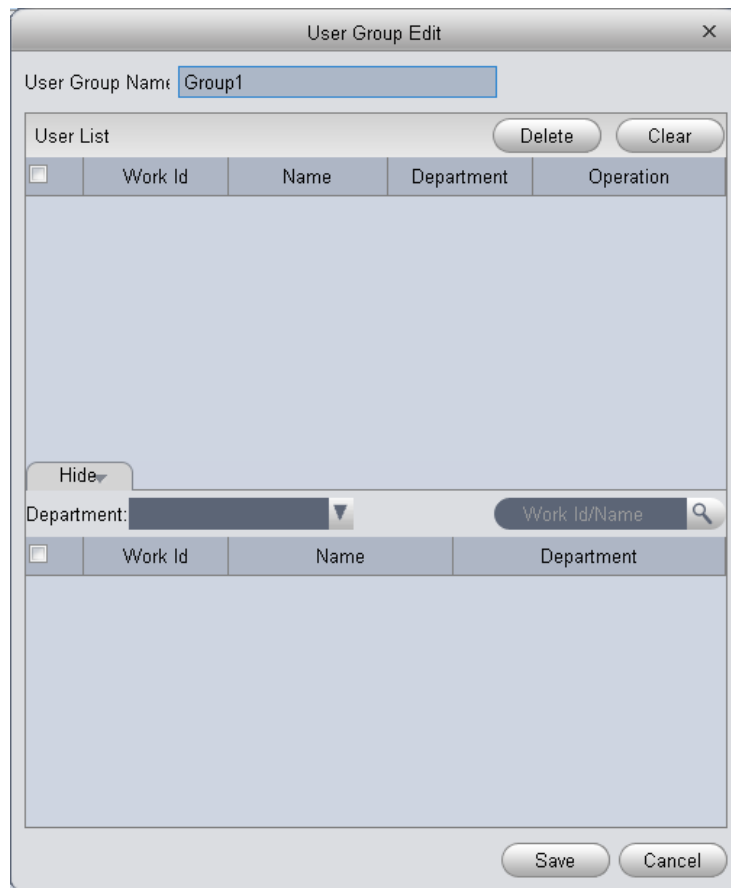




Figure 4-81

- 2) Select group member.
- 3) Save to complete adding.
- 4) In Multi-door Unlock interface, click  Add.
- 5) Select door you want to enable multi-door unlock.
- 6) In Multi-door unlock setup interface, check group.
- 7) Fill in valid number of user for each group.
- 8) Select unlock method for each group. (card, password and fingerprint).
- 9) Click  to adjust sequence of unlock.
- 10) Click Save.


Note:

A group can contain up to 64 users.

A door with enabled multi-card unlock supports up to 4 groups to verify at the same time, total number of users cannot exceed 64; total valid users cannot exceed 5.

4.5.3.5 Anti-pass Back

In the Permission Management interface, click Anti-pass Back to set verification user. A user who verifies at door A must verify at door A again when exiting since card records must match one-to-one. If a user does not verify when entering, he/she will not pass verification when exiting.

You can click  in Anti-pass Back interface. See Figure 4-82.

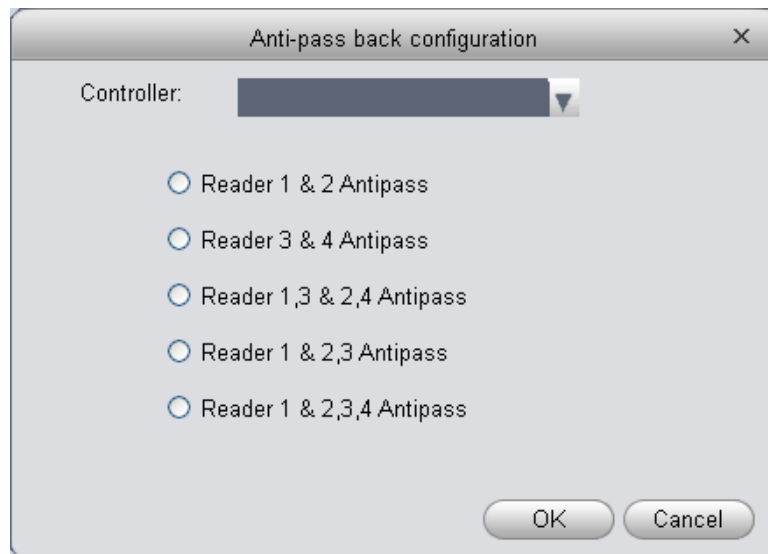


Figure 4-82

- 1) Select access controller to use anti-pass back.
- 2) Select anti-pass back rule according to access controller.
- 3) Confirm.

Note:

Rule of anti-pass back:


Unit/single door controller: door reader anti-pass back.

Dual door controller reader 1 and 2 anti-pass back, reader 3 and 4 anti-pass back, reader 1/3 and 2/4 anti-pass back, reader 1 and 2/3/4 anti-pass back.

Four door controller: reader 1 and 2 anti-pass back, reader 3 and 4 anti-pass back, reader 1/3 and 2/4 anti-pass back, reader 1 and 2/3 anti-pass back, reader 1 and 2/3/4 anti-pass back.

4.5.3.6 Inter-door Lock

In Permission Management interface, click Inter-door Lock, to set inter-lock between two doors on one access controller. When one door is unlocked, other doors will be locked. If you want to unlock one door (under normal status), all of the others shall be locked, otherwise you cannot unlock this door.

You can click  in Inter-door Lock interface. See Figure 4-83.

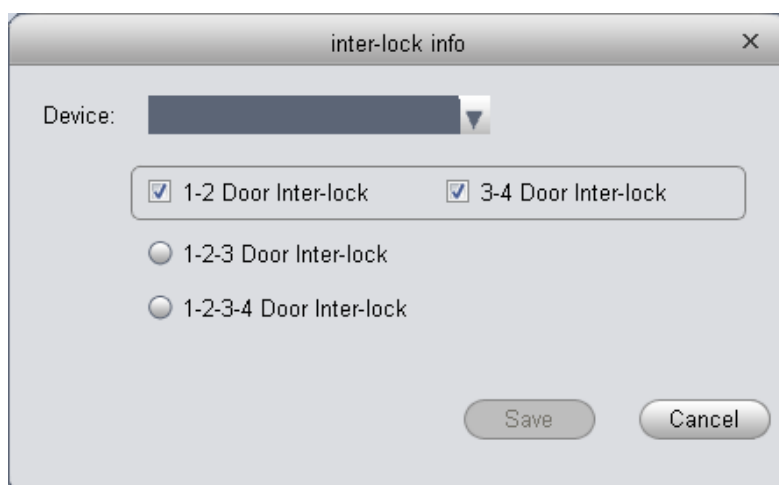


Figure 4-83

- 1) Select access controller to inter-lock.
- 2) Select rule of inter-lock.
- 3) Confirm.

Note:

Role of inter-lock:

Single door controller has no inter-lock.

Dual door controller: 1-2 door inter-lock.

Four door controller: 1-2 door inter-lock, 3-4 door inter-lock, 1-2-3 door inter-lock, 1-2-3-4 door inter-lock.

4.5.3.7 Remote Verification

In Permission Management interface, you can click Remote Verification to ask the client to let user who passes verification enter within certain period, and admin will judge whether to unlock

or not. You can click  in Remote Verification interface. See Figure 4-84.

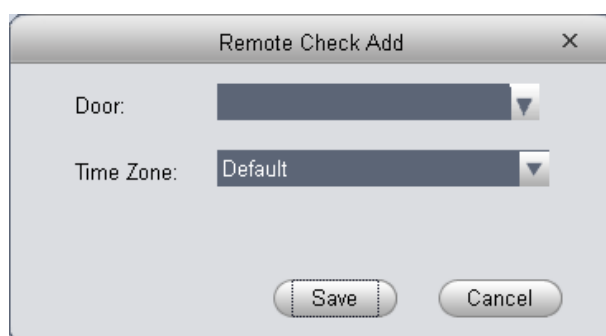



Figure 4-84

- 1) Select door and time to enable remote verification.
- 2) Save.

4.5.3.8 Period Setup

In Permission Management interface, click Period Setup to set specific reader to be valid with specific period and not valid on other periods, as well as set that user can only access a specific

door within a specific period. Period is used for NO period, holiday period, first card period, remote verification period, door group right period; you can click  in Period Setup interface, see Figure 4-85.

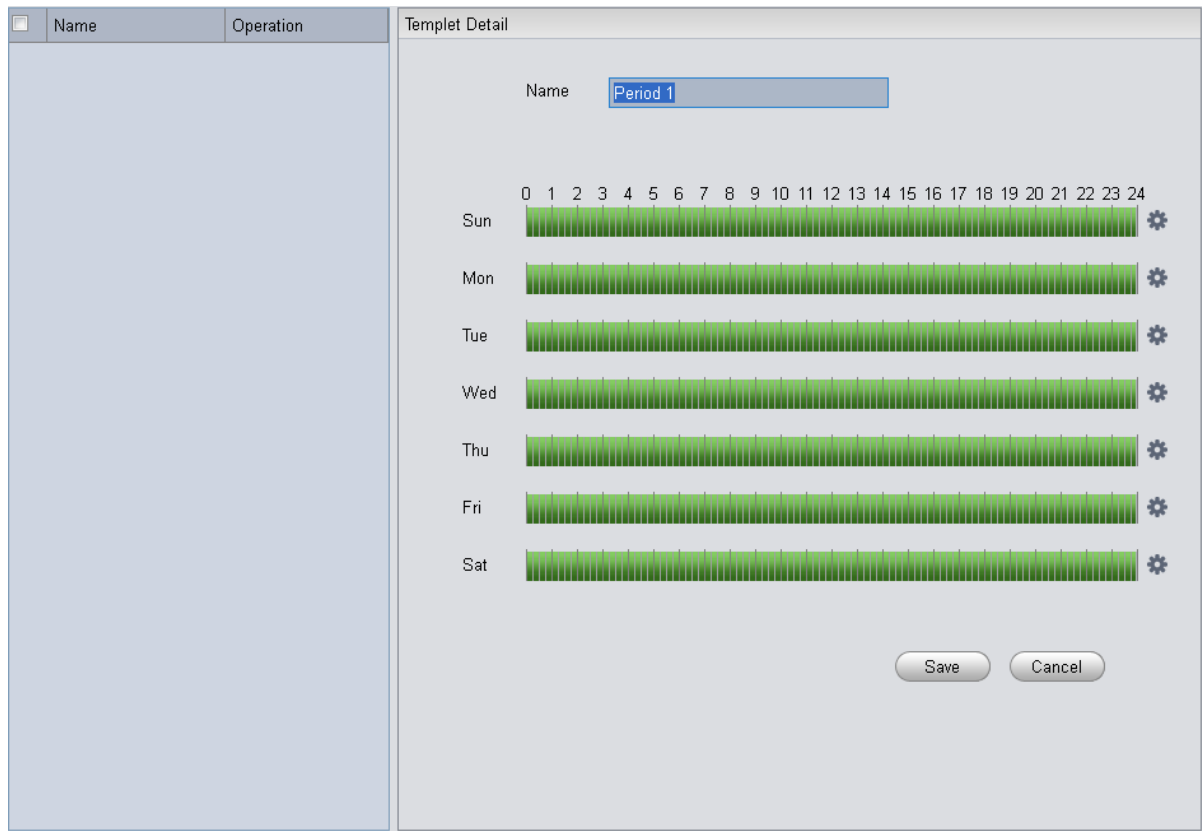



Figure 4-85

- 1) Enter period name.
- 2) Select daily period for Monday to Sunday.

Note:

A device supports to 128 periods setup with daily limit of 4 periods.

4.5.3.9 Holiday Setup

In Permission Setup interface, click Holiday Setup to set different access period from general period. You can click  in Holiday Setup interface. See Figure 4-86.

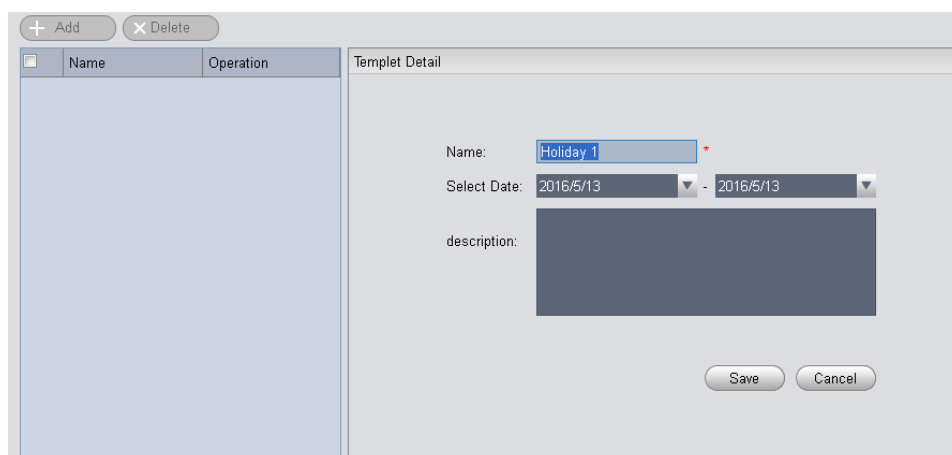


Figure 4-86

Note:

Within holiday period, holiday has priority in execution. Holiday period is for access only.

4.5.4 Event Configuration

In Access interface, you can click Event Configuration. You can set that when a input point inside access system triggers a specific event, client will have video link(live preview/record), link event includes: alarm, abnormal, normal event, link event pop-up plus display in log.

Please refer to the following for configuration of event scheme.

- 1) Click Add.
- 2) Set name and event type, select channel and check Enable. Event type includes alarm event, abnormal event , normal event and external alarm. See Figure 4-87.

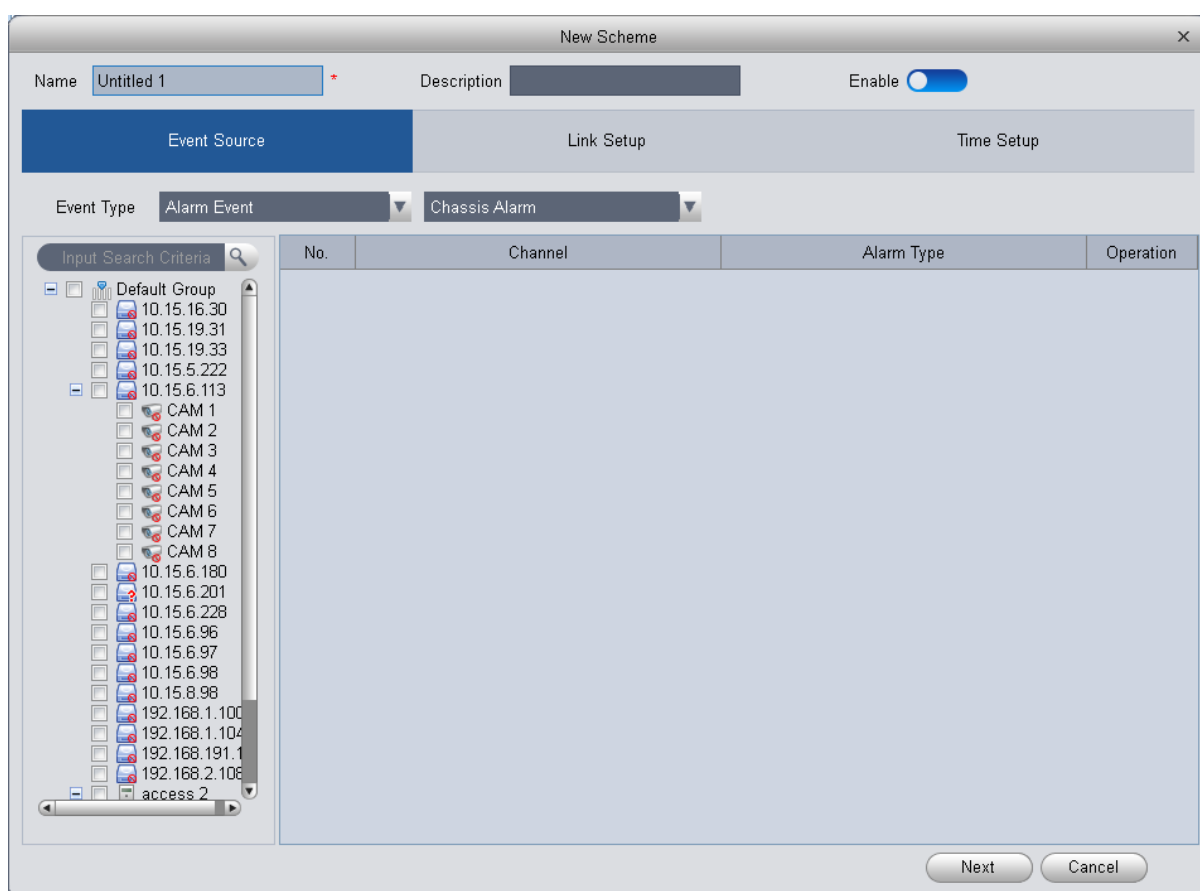


Figure 4-87

- 3) Click Next, set link video channel.
- 4) Under Link Setup tab, drag channel and set link channel, window no., stay time and etc. of link channel. See Figure 4-88.

Note: External alarm supports access controller link.

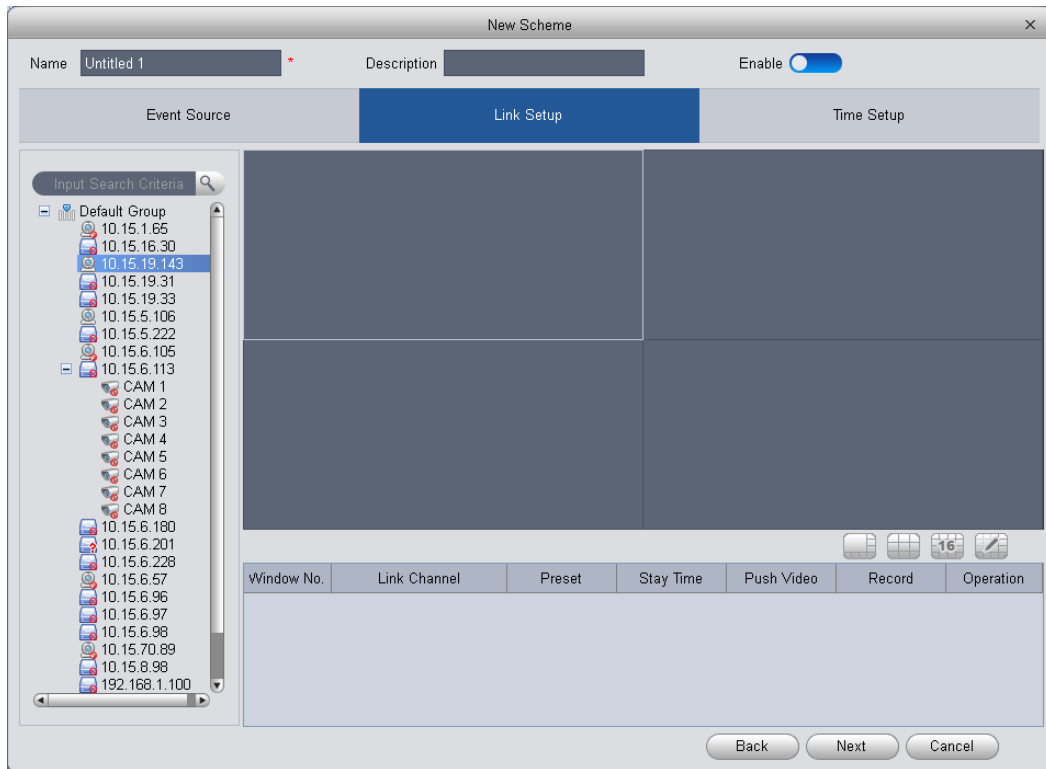


Figure 4-88

Note:

Stay time range is 5s to 180s.

- 5) Click Next and configure scheme time. See Figure 4-89.

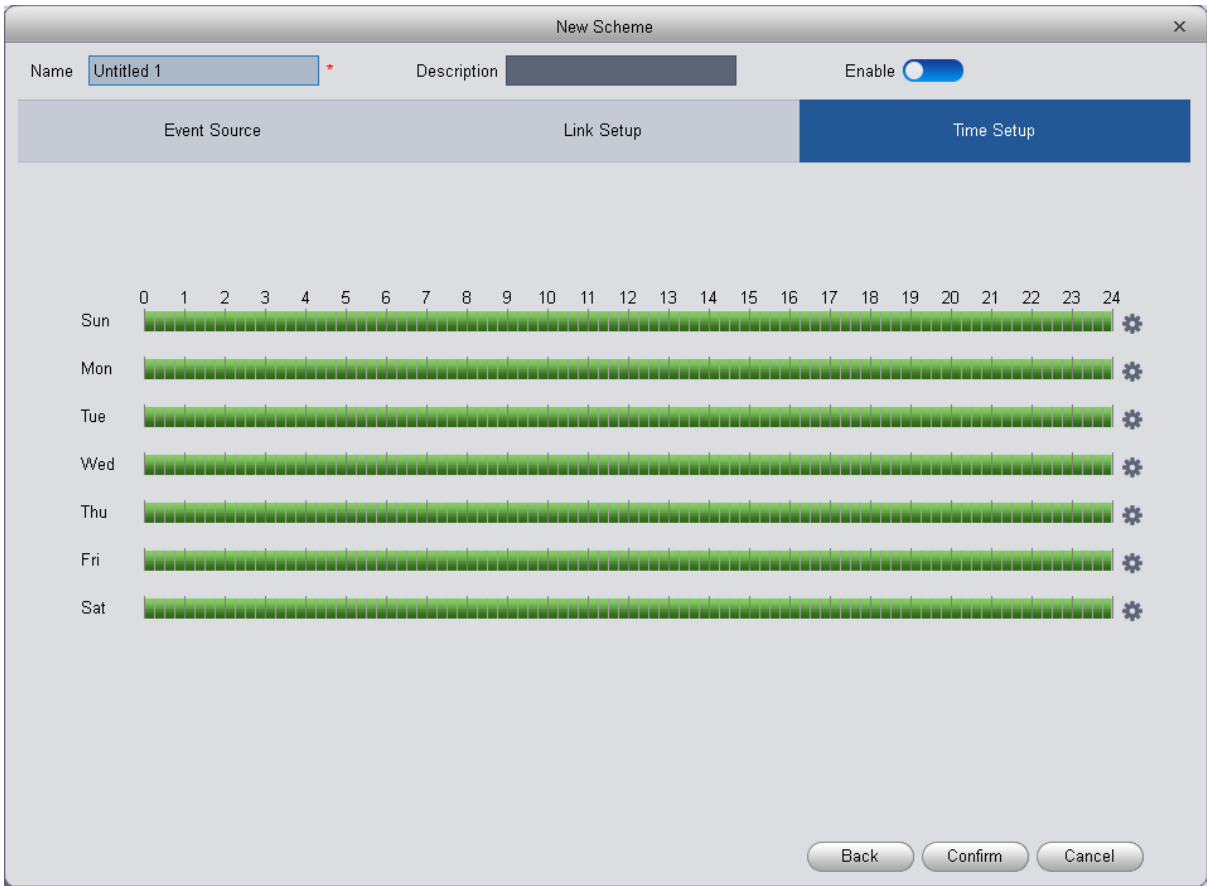


Figure 4-89


- 6) Behind each week, there is , click it to set accurate time each day.
- 7) Click Confirm. See Figure 4-90.



Figure 4-90

You can modify, delete, disable, enable scheme, as well as batch impoty/export scheme.

Event Type	Description
Alarm Event	Chassis alarm: alarm triggered when card reader of the controller is forced to be removed.
	Intrusion alarm: Excluding normal door open conditions, other door open conditions detected by door sensor 1
	Duress alarm: Alarm triggered when door is opened by duress card (fingerprint).
	Door left open alarm: door remained open exceeding set time
	Blacklist alarm: Alarm triggered when door is opened via card on balcklist.

Event Type	Description
Abnormal Event	Unauthorized or card lost: alarm triggered when the card has no right to unlock this door or it has been reported lost.
	Card suspended: After the card is suspended, it cannot be used. Event is triggered at verification.
	Unlock mode error: Event triggered when verification method and unlock method do not match.
	Card validity error: Alarm is triggered when current time is not within card validity.
	Period error: Alarm is triggered when verification of current period is not in access period.
	Holiday unlock period error: Alarm is triggered when verification of current period is not in holiday period.
	Incorrect first card: enable first card right, alarm is triggered when user unlock not using first card.
	Inter-lock mode: Door with set inter-lock rule is unlocked, alarm is triggered when the other door is unlocked.
	Anti-pass back mode: When one enters via verification but exits without verification, alarm is triggered at his/her next verification for entry.
Normal Event	Lock event: triggered when auto lock or door sensor detects door is locked
	Card unlock: Triggered after passing card verification, door is unlocked
	Fingerprint unlock: Triggered when door is unlocked after passing fingerprint verification.
	Card + fingerprint unlock: Triggered when door is unlocked after passing card and fingerprint verification.
	Card +password unlock: Triggered when door is unlocked after passing card and password verification.
	Password unlock: Triggered when door is opened via password.
	Button unlock: Triggered when door is opened via button.

Event Type	Description
	Multi-card unlock: Triggered when the first card in multi-card unlock mode passes verification.
	Remote verification: Triggered when a user passes device verification and is asking for client verification for door under remote verification.

4.5.5 Log

In Access interface, you can click Log. You can search for log according to criteria.

- 1) Select start time and end time.
- 2) Select user department.
- 3) Enter name or user ID.
- 4) Select verification method.
- 5) Select user entry/exit status.
- 6) Select device and door you want to search.
- 7) Select detailed event you want to search.
- 8) Click Search, see Figure 4-91.

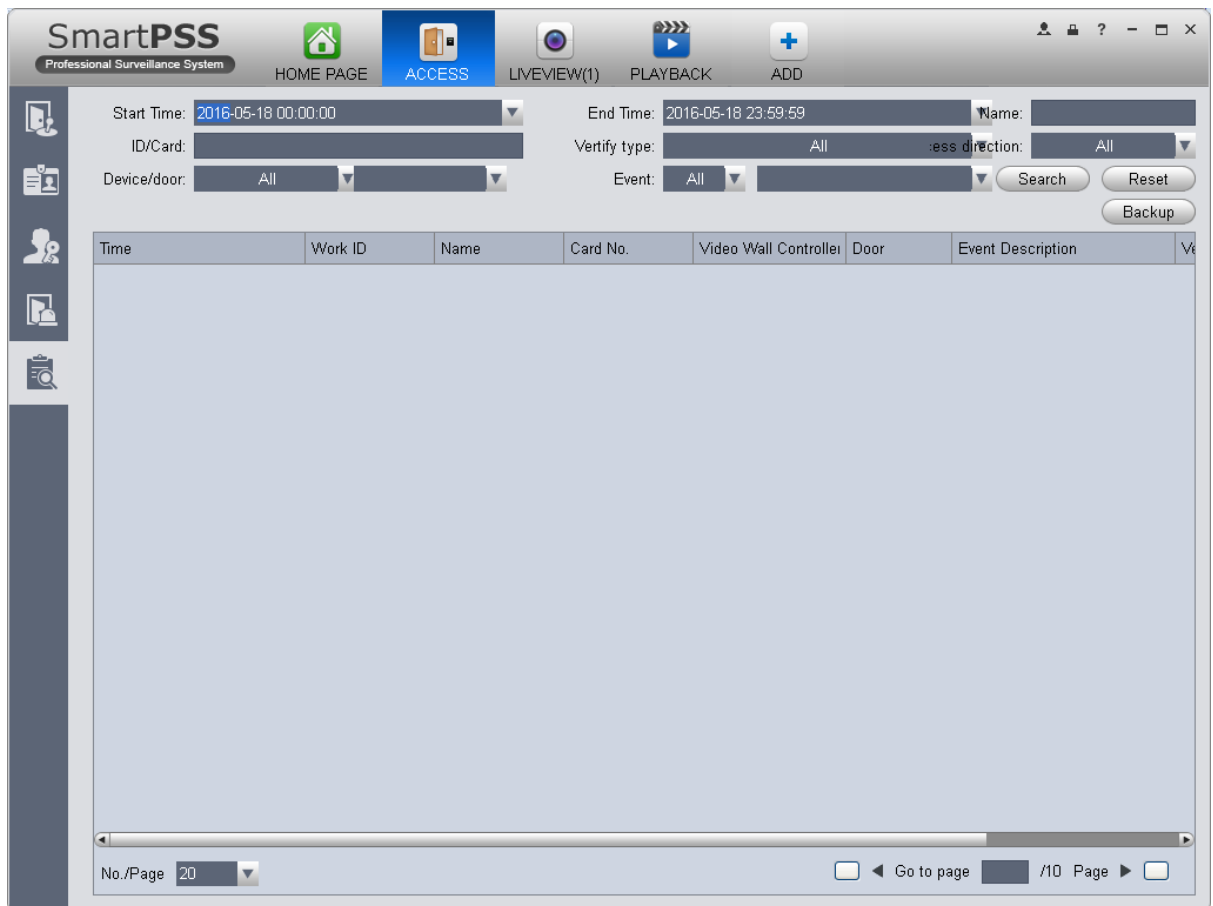
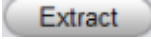




Figure 4-91

You can reboot search criteria, export search result and view record.

-  , reset criteria.
-  , export searched log.

-  , extract log info of all devices or selected devices.
-  , view record.

4.5.6 Attendance

In Attendance interface, click  , you can set attendance info to achieve user shift and statistics.

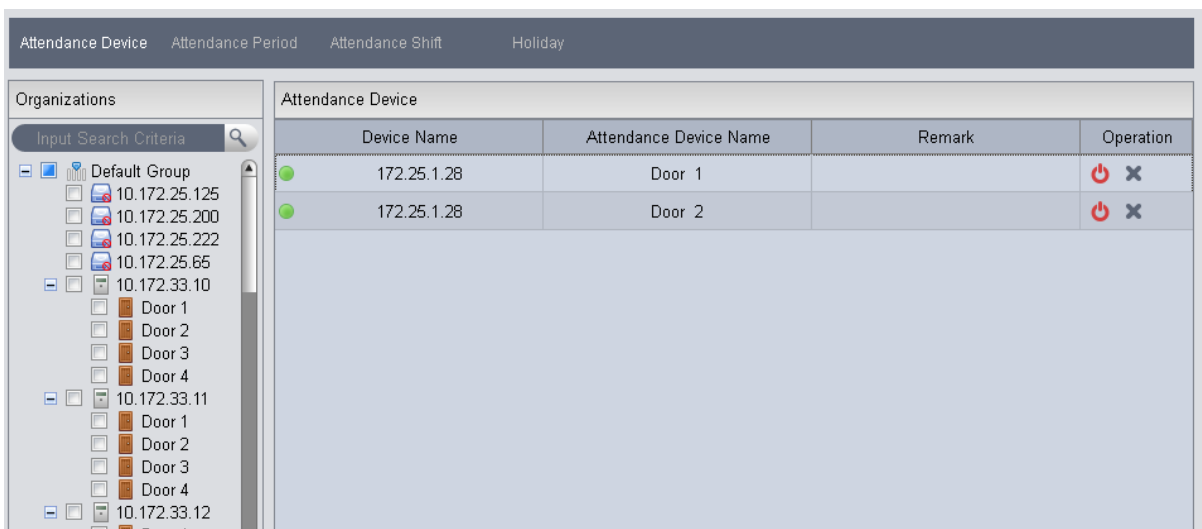
4.5.6.1 Attendance

You can customize attendance rule, multiple period, holiday setup, attendance device to meet different scenes.

1. Attendance Device

Attendance device is used to set user sign in range, validly and effectively count important data.

You can check channel on the left in organization tree as attendance device. The system auto set the selected channel into attendance device, see Figure 4-92.







Device Name	Attendance Device Name	Remark	Operation
172.25.1.28	Door 1		 
172.25.1.28	Door 2		 

Figure 4-92

Note:

Up to 10 attendance devices.

2. Attendance Period

Attendance period is used for user to account different sign in/out, late, early leave, absence, and etc. You can click Add button to enter period name. See Figure 4-93.

Period Name

Work Time: - Record as Workday

Start Sign In Time: End Sign In Time: Must Sign In

Start Sign Out Time: End Sign Out Time: Must Sign Out

Late sign in within minutes is permitted. Late sign in over minutes is recorded

Early leave within minutes is permitted. Early sign out over minutes is recorded

The sign out time that is minutes later than off duty time is recorded as overtime.

Figure 4-93

Note:

Start time must be within the range between start sign in and end sign out time.

End time must be within the range between start sign out and end sign out time.

Cross Day

See Figure 4-94. When end sign out time is earlier than start sign in time, the system is in cross-day mode by default.

Period Name

Work Time: - **Across a day** Record as Workday

Start Sign In Time: End Sign In Time: Must Sign In

Start Sign Out Time: End Sign Out Time: Must Sign Out

Late sign in within minutes is permitted. Late sign in over minutes is recorded

Early leave within minutes is permitted. Early sign out over minutes is recorded

The sign out time that is minutes later than off duty time is recorded as overtime.

Figure 4-94

Dual Period

See Figure 4-95 and Figure 4-96.

Figure 4-95

Period Name

Work Time: - Record as Workday

Start Sign In Time: End Sign In Time: Must Sign In

Start Sign Out Time End Sign Out Time: Must Sign Out

Work Time: - **Across a day** Record as Workday

Start Sign In Time: End Sign In Time: Must Sign In

Start Sign Out Time End Sign Out Time: Must Sign Out

Late sign in within minutes is permitted. Late sign in over minutes is recorded

Early leave within minutes is permitted. Early sign out over minutes is recorded

The sign out time that is minutes later than off duty time is recorded as overtime.

Figure 4-96

Period Name

Work Time: - Record as Workday

Start Sign In Time: End Sign In Time: Must Sign In

Start Sign Out Time End Sign Out Time: Must Sign Out

Work Time: - Record as Workday

Start Sign In Time: End Sign In Time: Must Sign In

Start Sign Out Time End Sign Out Time: Must Sign Out

Late sign in within minutes is permitted. Late sign in over minutes is recorded

Early leave within minutes is permitted. Early sign out over minutes is recorded

The sign out time that is minutes later than off duty time is recorded as overtime.

3. Attendance Shift

Attendance shift is used to link period within cycle peiord, it supports cycle by week, month and day. See Figure 4-97.

No.	Date	Period
1	Sun	Rest
2	Mon	nor
3	Tue	nor
4	Wed	nor
5	Thu	nor
6	Fri	nor
7	Sat	Rest

Figure 4-97

4. Attendance Holiday

Holiday setup is used for unified employee work off within the range of holiday, see Figure 4-97.

Figure 4-98

4.5.6.2 User Shift


You can set user shift in Shift Select, as well as batch set temporary arrangement:

Step 1. Check shift user on the left.

Step 2. Click  button on the right.

No.	Attendance Classes	Start Time	End Time
1	1	2016-10-01	2016-11-30

Figure 4-99

Step 3. User click  button to add user shift info. Set hift user times and start/end date, click OK. See Figure 4-100.

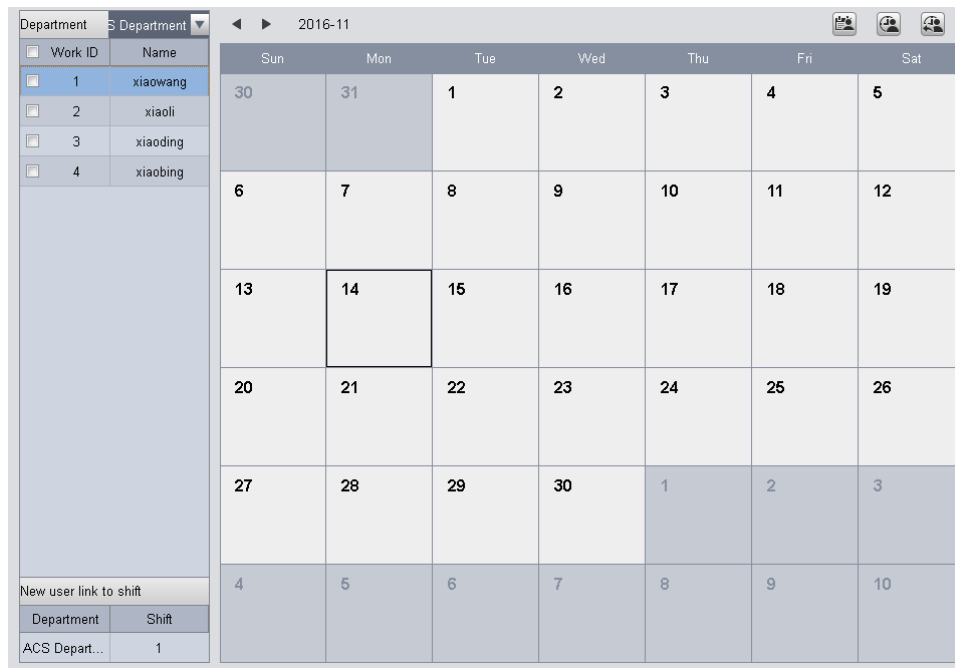



Figure 4-100

Step 4. You can link new user shift of this department. When a user has set linked shift, all new users under this shift will be auto arranges in shift from the date of setup, vallid time period is 10 years.

Note:

If this department does not have linked shift of new user, its father node become valid.

Temporary Shift

You can select user you want to add for temporary shift. Double click date of temporary shift in calendar, or batch check users and then select date of temporary shift , click  , see Figure 4-101.

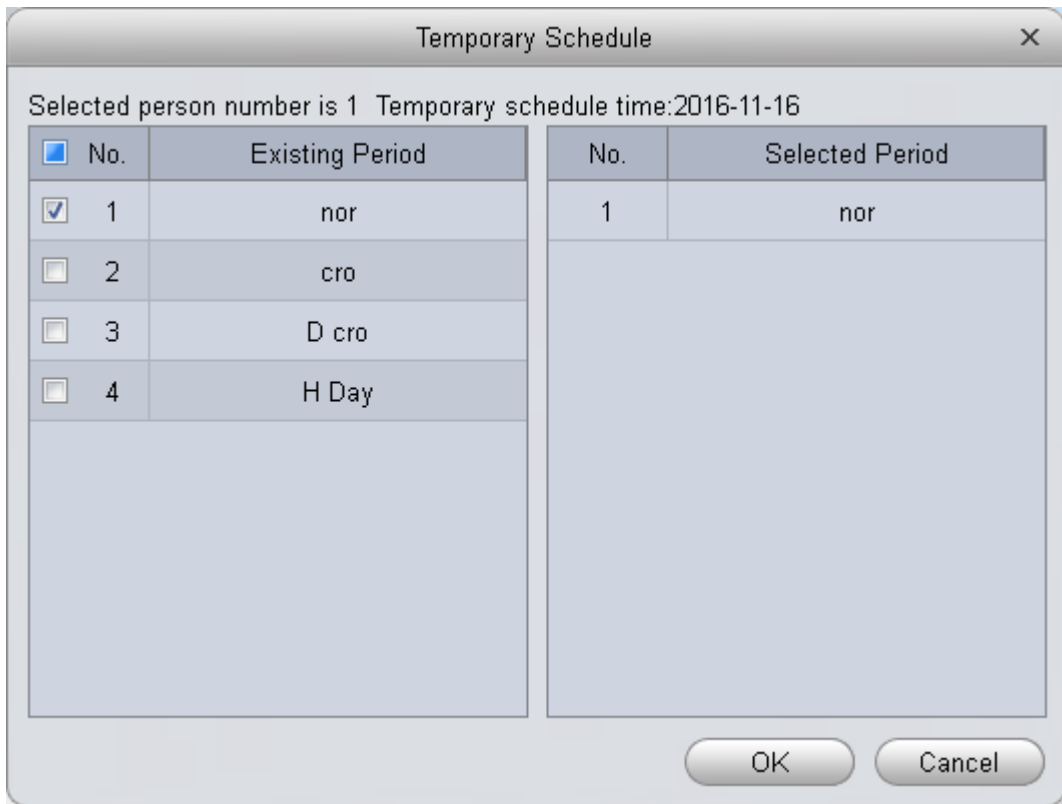



Figure 4-101

Re0select or cancel period cancelled for temporary setup, see Figure 4-102.

9 nor	10 nor	11 nor
16 Days Off	17 H Day	18 nor
23 nor	24 nor	25 nor

Figure 4-102

You can select user, right click date with existing temporary shift, select to cancel temporary shift; or batch check users who you want to cancel their temporary shift and then select date with

existing temporary shift , click 

Note:

If no period selected, it is days off.

4.5.6.3 Report Search

You can directly view attendance data in report search, see Figure 4-103 and Figure 4-104.

Time: 2016-10-01 00:00:00 - 2016-11-14 23:59:59 Department: All Work ID: Search Export

Statistics Detail Extract

Department	Work ID ▲	Name	Attendance Date	Interval	Sign in Time	Sign out Time	te Tir	Leave	Overtime Work	Absent Days
ACS Department	4	xiaobing	2016-10-25	nor	16:30	16:30				1d
ACS Department	4	xiaobing	2016-10-25	Overtime Work	16:30	16:30			1m	
ACS Department	4	xiaobing	2016-10-26	nor	08:11	10:26				1d
ACS Department	4	xiaobing	2016-10-26	Overtime Work	01:26	10:26			9h0m	
ACS Department	4	xiaobing	2016-10-30	Overtime Work	22:38	Not Sign out				
ACS Department	4	xiaobing	2016-10-31	nor	01:38	Not Sign out				1d
ACS Department	4	xiaobing	2016-10-31	Overtime Work	01:38	Not Sign out				
ACS Department	4	xiaobing	2016-11-05	Overtime Work	00:48	03:25			2h37m	
ACS Department	4	xiaobing	2016-11-08	nor	07:01	19:59			1h30m	
ACS Department	4	xiaobing	2016-11-08	Overtime Work	05:49	19:59			14h11m	

Figure 4-103

Time: 2016-10-01 00:00:00 - 2016-11-14 23:59:59 Department: All Work ID: Search Export

Statistics Detail Extract

Department	Work ID	Name	Attendance Day	Weekday	Off	Late Time	Early Leave Time	Overtime Work	Absent Days	Holiday
ACS Department	4	xiaobing	31d	1d				1h30m	30d	

Figure 4-104


Note:

When the client is closed so cannot get attendance data, a user can Extract. The system will extract data of all attendance devices. Please be patient, this process can be long.

5. Extension

5.1 Video Wall

After you set video wall setup (chapter 3.10), you can output video to the video wall. You can follow the steps listed below to set.

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

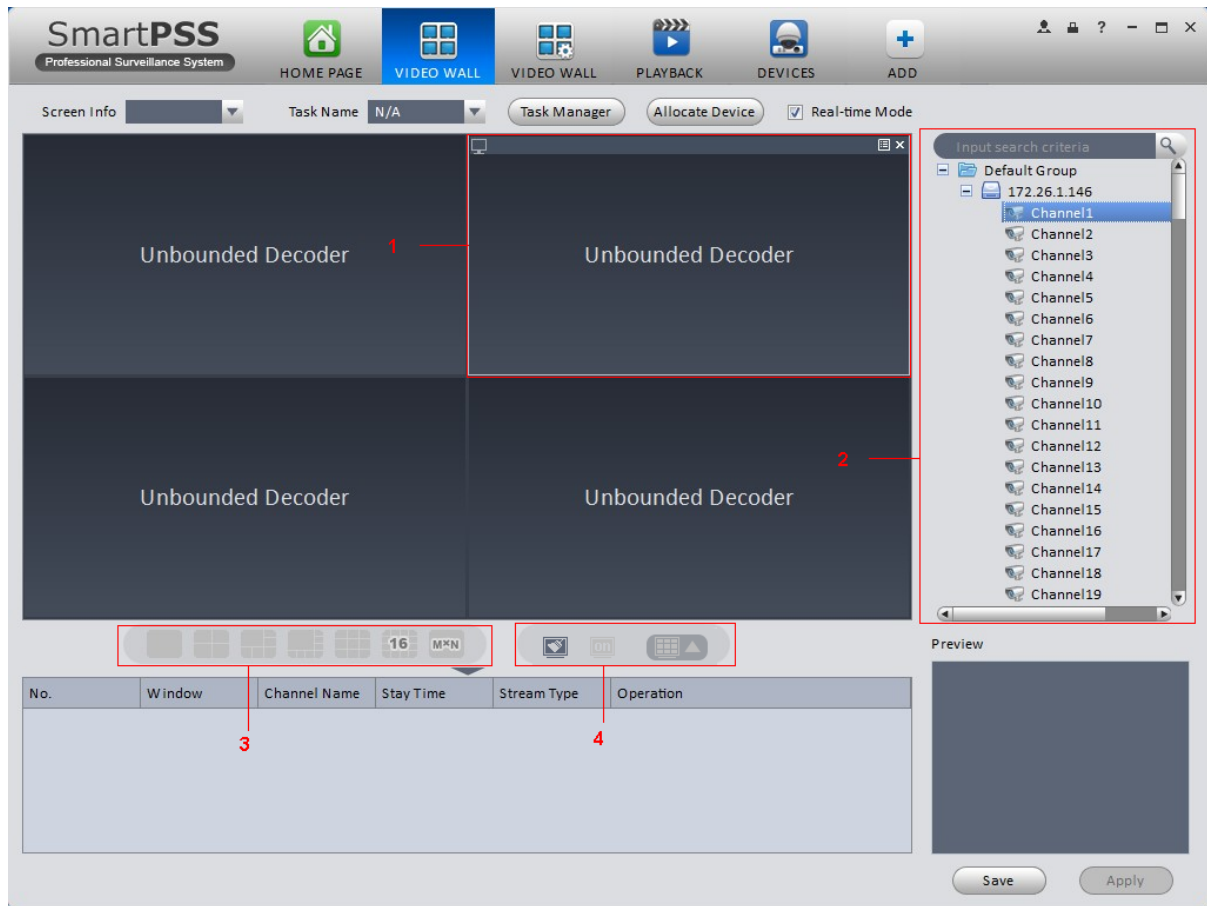









Figure 5-1

SN	Item	Function
1	Video window	Connect to NVD: Video window is fixed, cannot be dragged. Connect to M30 : Video window can be moved, max is 16.
2	Video channel	-

SN	Item	Function
3	Video open window	<p>Connect to NVD: Select one video window, click  to open 1*1, 2*2, 3*3, 4*4 layouts of windows.</p> <p>Connect to M30: Click  to open 1*1, 2*2, 3*3, 4*4 or M*N layouts of windows.</p>
4	Clear screen, open/close window	<p>: Clear all video channels or layouts on screen.</p> <p>: Screen on/off setup, to open/close TV wall displsy.</p> <p>: Clear screen and open window.</p>

- 2) Select corresponding video 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 video wall after you complete the setup. Otherwise, it does not output the video to the video wall.
- 3) Drag the channel on the right pane to the corresponding screen and then binding. You can view details of binding video in Internet Explorer.
 1. In IE, enter M30 or NVD device's IP address.
 2. Download web service pack.
 3. After download is complete, system pops up login interface.
 4. Enter username and password, click Login to view details of bound video source. Default username and password is admin/admin.
- 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 video 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 Data Report

The system supports to view flow chart statistics, and generate report for data comparison.



- 1) Click  in Advanced area.

- 2) Check channel on the left, set search time, click Search.
See results in Figure 5-9.

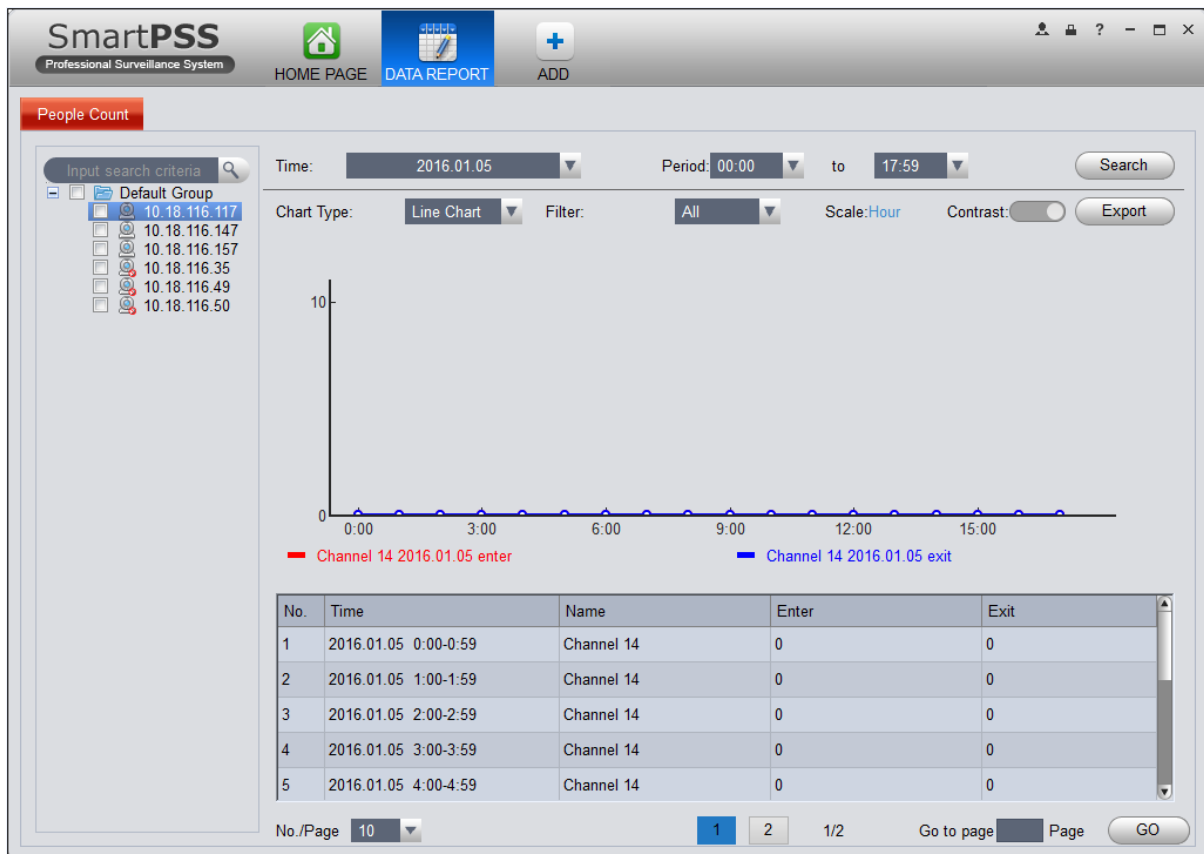



Figure 5-2

- Chart Type: line chart and histogram.
- Time: today, this month, this year, optional.
- Filter: filter inflow and outflow.
- Contrast: Contrast by time or by channel, max 5 records of contrast data.
- Export: can export flow statistical data in format of excel file.

5.3 Log

Log interface is shown as in Figure 5-9.



- 1) In homepage, click  in BASIC area.
- 2) Select Client log and select start time/end time, and select type from the dropdown list. Click Search button, you can see the log information.

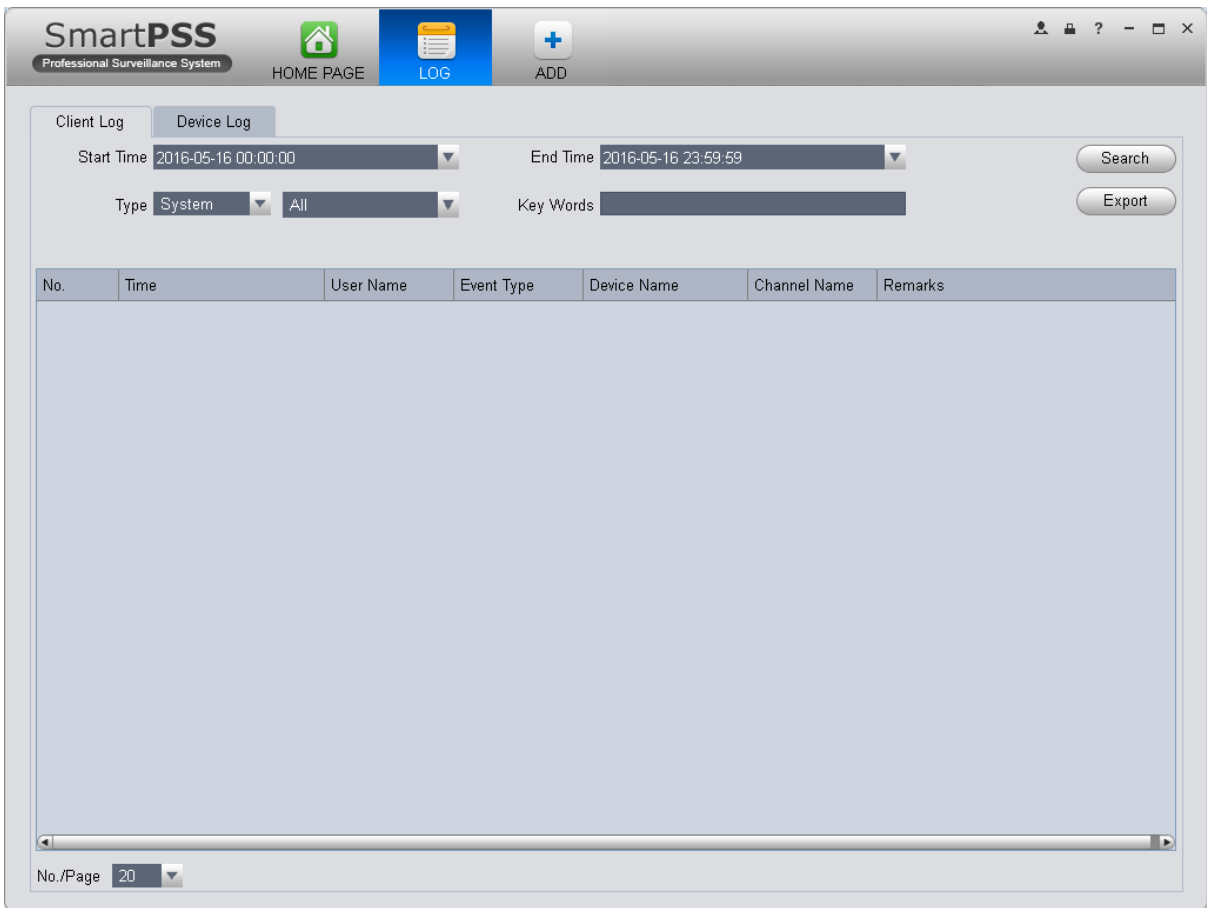


Figure 5-3

3) Click Search. See Figure 5-10.

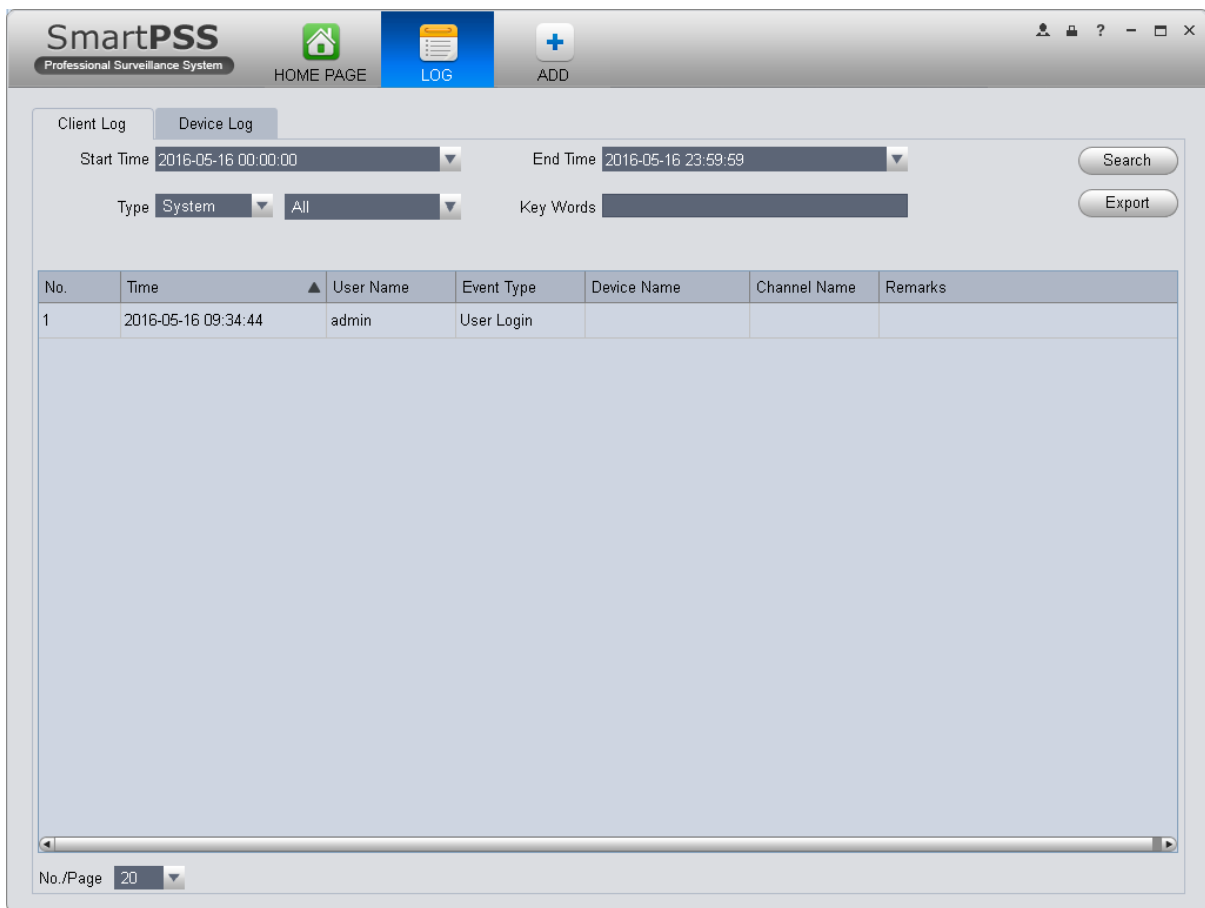


Figure 5-4

- 4) Click Device log tab.
- 5) Select start time/end time, type and device name from the dropdown list.
- 6) Click Search button. See Figure 5-11.

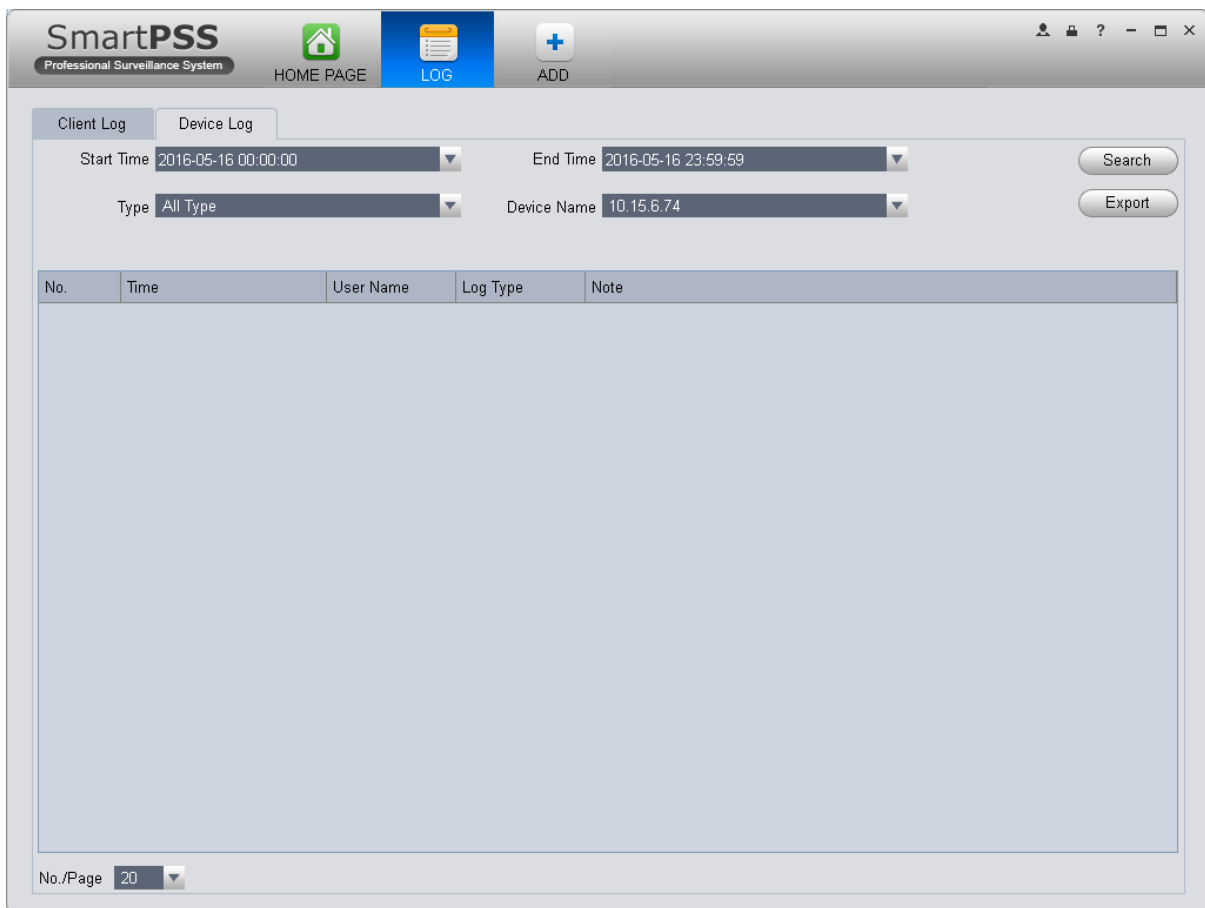


Figure 5-5

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.