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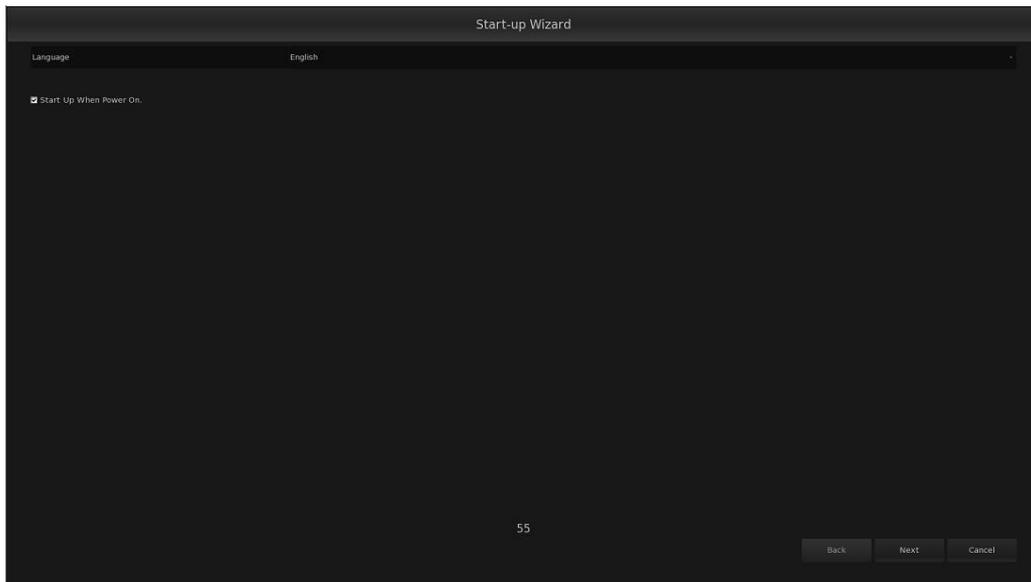
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Chapter1 Guide

By default, the Guide Interface will show up automatically when the System boots up by pressing the Power ON button. In the Guide, you can setup system language, modify super user's password, adjust system date and time and input network IP address according to your local network configuration.

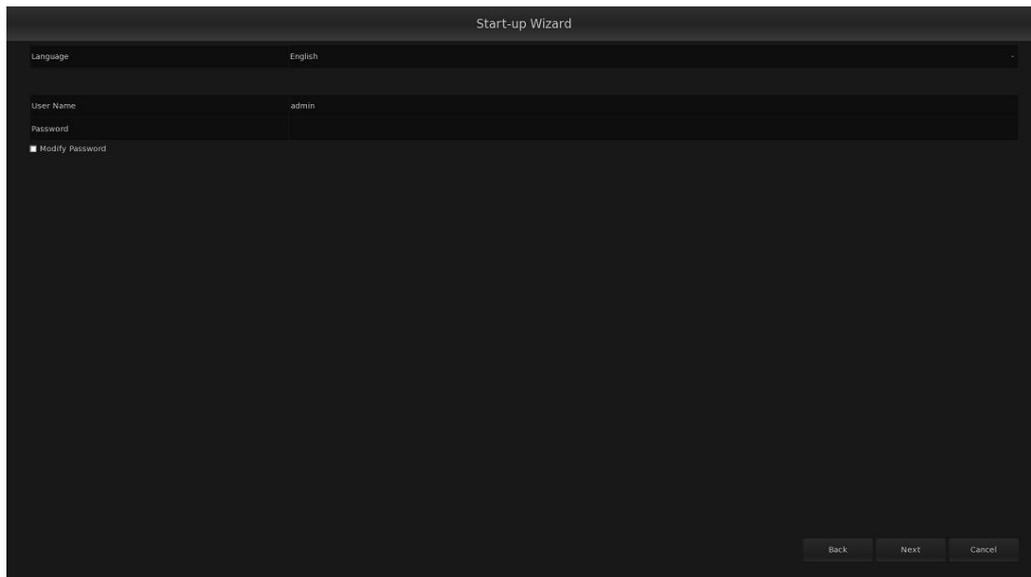
Setup1:

In the picture, you can set up system language. Click the "Cancel" button can exit the Guide. But for your first time to enter the System, you should finish network settings in the Guide and then register your System after Guide.



Setup2:

Click "Next" button to continue the Guide settings, you will enter the Login window.



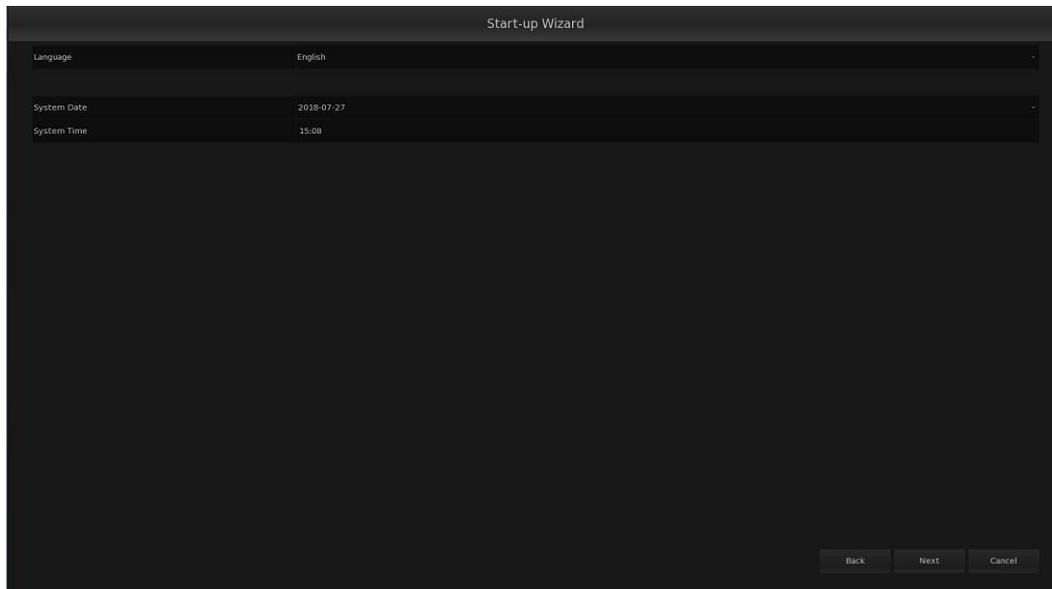
The default user ID and password are both **admin**, you have to input them to log in System. You can also change the password by checking the "Modify Password" box.

Tips:

-
1. For security, please modify password after your first login.
 2. You should input the same new password for twice, and the new password will take effect.
 3. Double click the input area will bring up a software-keyboard interface whenever you need to input anything. It doesn't support software-keyboard when system language is Chinese.

Setup3:

Click "Next" button to continue. You can modify system date and time in this Interface.

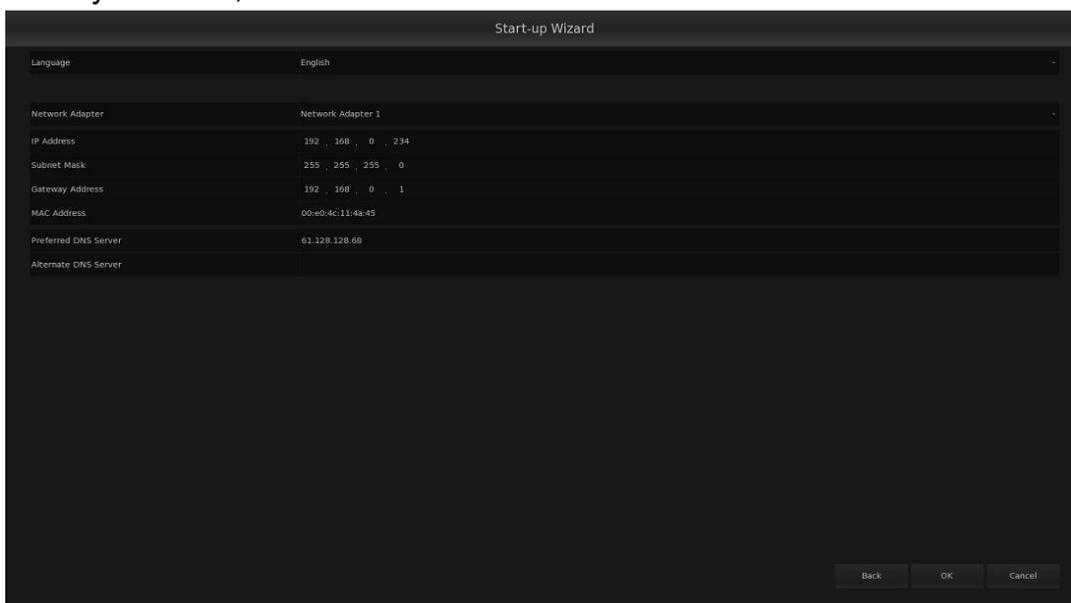


Tips:

In general, please do not modify the system date. The system may not boot up successfully next time with wrong date, and you must restart system and enter the Motherboard BIOS to modify the system date when it happens.

Setup4:

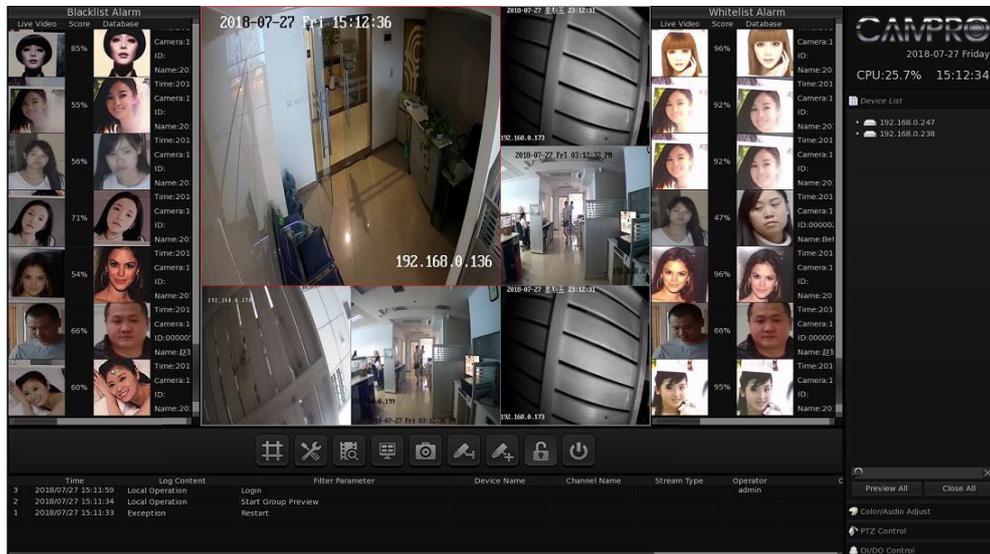
Click "Next" to continue, you will enter network settings. Please input correct IP Address, Mask Address, Gateway Address, and DNS Server IP.



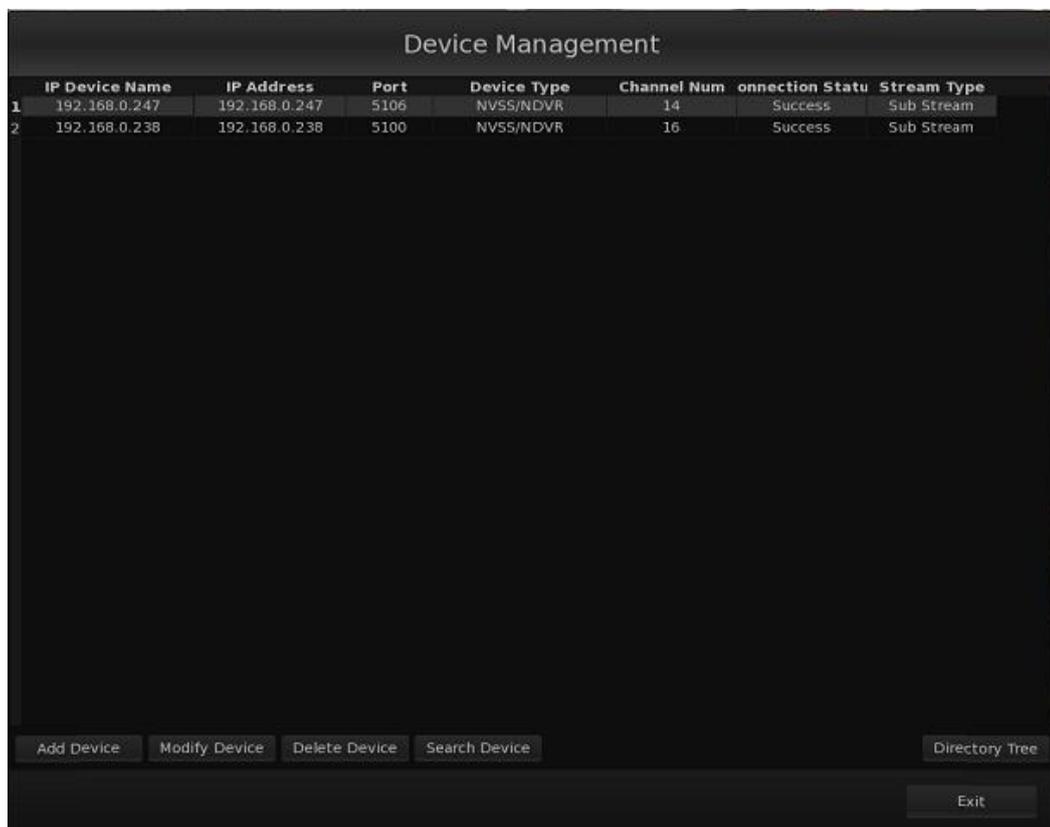
Click "OK" to complete the Guide setup.

Chapter2 Main Interface

The main interface contains five parts: Information Panel, Live View, Toolbar Panel, Log Panel and Control Panel.



2.1 Device Management



The main function of the System is to connect the embedded DVR/NVR for central management. So, before you can get a live view or remote playback the video, you should add network device to the connection list.

There are two ways to get into the Device Management: ①select **Add Device** option in right-click context menu;②click on  icon in toolbar panel.

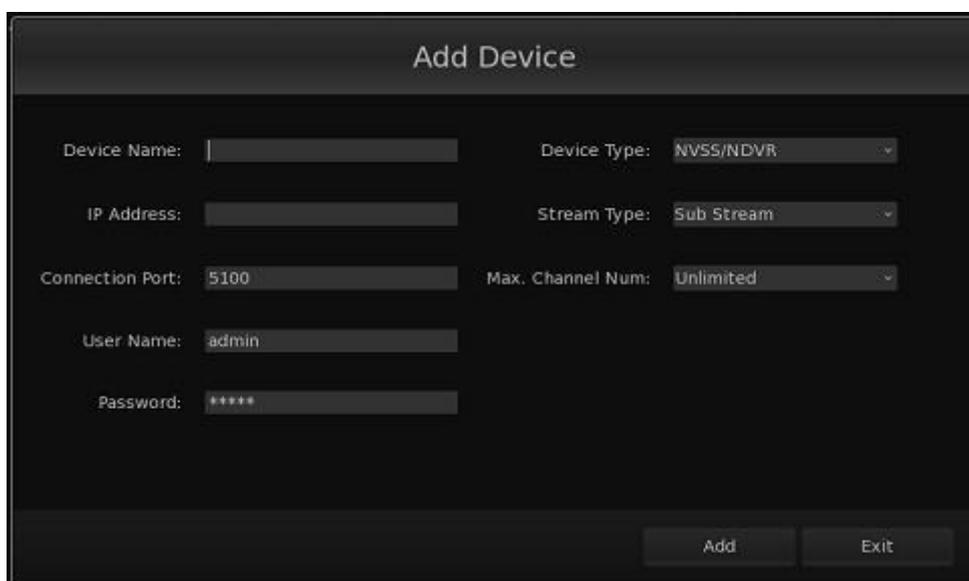
Tips:

For convenience,all the IPC,NVR,and DVR are called IP device here.

2.1.1 Add IP Device

1.Add IP Device manually

Click on  button to bring up a sub window shown blow, you can add an IP Camera,HD Analog DVR or NVR manually.



【 Device Name 】 Set an alias for the new IPC/IP device, the device name you set will be shown as IPC/IP device name in the preview channel and Device List.

【 IP Address 】 Input the IP address of the IPC/IP device, it is an IP address or IP alias of an IPC/IP device which is connected through DNS Server.

【 Connect Port 】 Set the port through which connects to IPC/IP device.

【 Login User /Login Password 】If the user has no right to visit this IPC/IP device or password mismatch,the connection will be cut down.

【 Device's Type 】 Select the corresponding type for the IPC/IP device. Now our System supports the following types of IP products: NV Series IPC, NT Series IPC, DH Series IPC, DX Series IPC, ONVIF protocol IPC, NVR and DVR.

【 Stream Type 】 Select main stream or sub stream for device.

【 Max. Channel Num 】 Select the number of channels you want to get from IP device. The maximum is 256 channels.

2. Add Device by IPC search

Click on  button to bring up “Devices List” interface.You can add a IP device and IP

devices in batches here.



The System will display all the IP devices that are found and can be connected. You can also sequence the searched IP device by clicking the head of any column.

Press **Update Device List** button to refresh device list when there is a new connecting IP device that can't be found.

Press **Clear Device List** to clear IP devices from the list.

Press **Hide added device** to filter added IP devices.

You can modify IP device's network information in this interface. Click "Update Device List" to find it again after you modify it, and it takes time to find it sometimes.

Tips:

1. For the same type of cameras, the **Login Password** will be consistent with the last time by default when you add cameras here. This avoids the trouble that the user has to enter a password every time a camera is added when the real password doesn't match the default password.

2. For searching DH Series IP cameras, users have to connect them to switches under a router, and connect the router to one network port of the System. You can only search the IPC which connected to the one as **Network listen adapter**. You can't search the ones which have the same network segment of the unchecked router.

3. Please select different **Adapter IP Address** to search cameras under different routers connected in different network port of System.

4. The whole NV Series IPC can be searched whichever **Adapter IP Address** you selected, no matter the cameras are connected under which network port of System.

2.1.2 Modify IP Device

Press **Modify Device** button to modify IP device information, the interface is shown below.

Modify Device information

Device Name: Device Type:

IP Address: Stream Type:

Connection Port: Max. Channel Num:

User Name:

Password:

2.1.3 Delete IP Device

Press button to delete a connected device.

2.1.4 Directory tree setting

The system supports maximum 256 devices for management, you can use directory tree to manage all devices. Press button to set directory tree, you can create directory by clicking button and click button to modify the directory and click button to delete directory. It is more convenient for you to manage all the devices you own.

Directory Tree Setting

Directory List

- 64bit

Device List

- 192.168.0.247
- 192.168.0.238

Drag&drop servers from Device List to corresponding directories, and then click Save to save the settings.

Create Directory Modify Directory Delete Directory

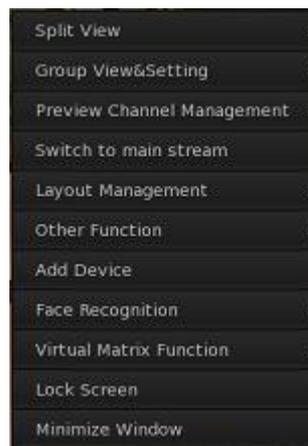
2.2 Live View and Screen Menu

2.2.1 Live View

Live view displays camera's real-time video. You can drag&drop any camera from Device List to any live view sub-window. You also can scroll the wheel of mouse to magnify the selected image, eight times largest. In the magnified screen, you can click and hold down the left mouse button to move to convert the perspective. Right-click to restore the enlarged image.

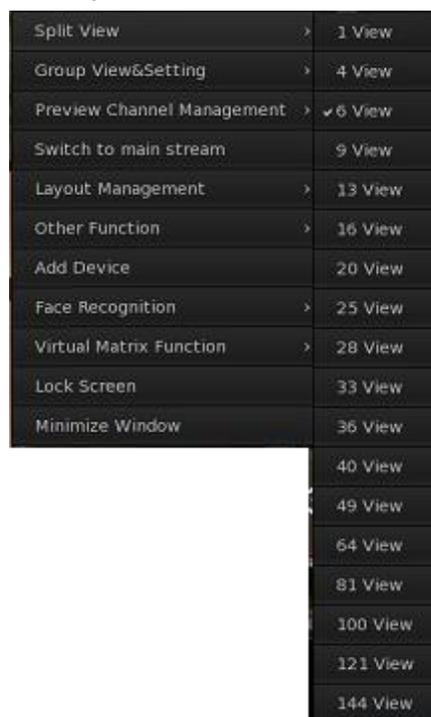
2.2.2 Screen Menu

Users can single-right-click image area to pop up screen menu, shown in picture blow:



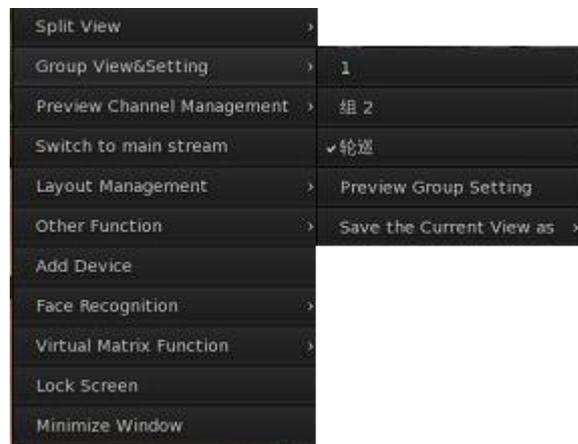
1. Split View

Move the mouse to highlight Split View in the right-click context menu to bring up the sub menu for more options. The split view supports up to 144.



2. Group view & Setting

Move the mouse to highlight Group View&Setting in the right-click context menu to bring up the sub menu for more options. It includes:①select a pre-defined group to display.②enter “Preview Group Setting” to configure viewing group.③save the current live view to any group by clicking”Save the Current View as”.shown in the picture blow.

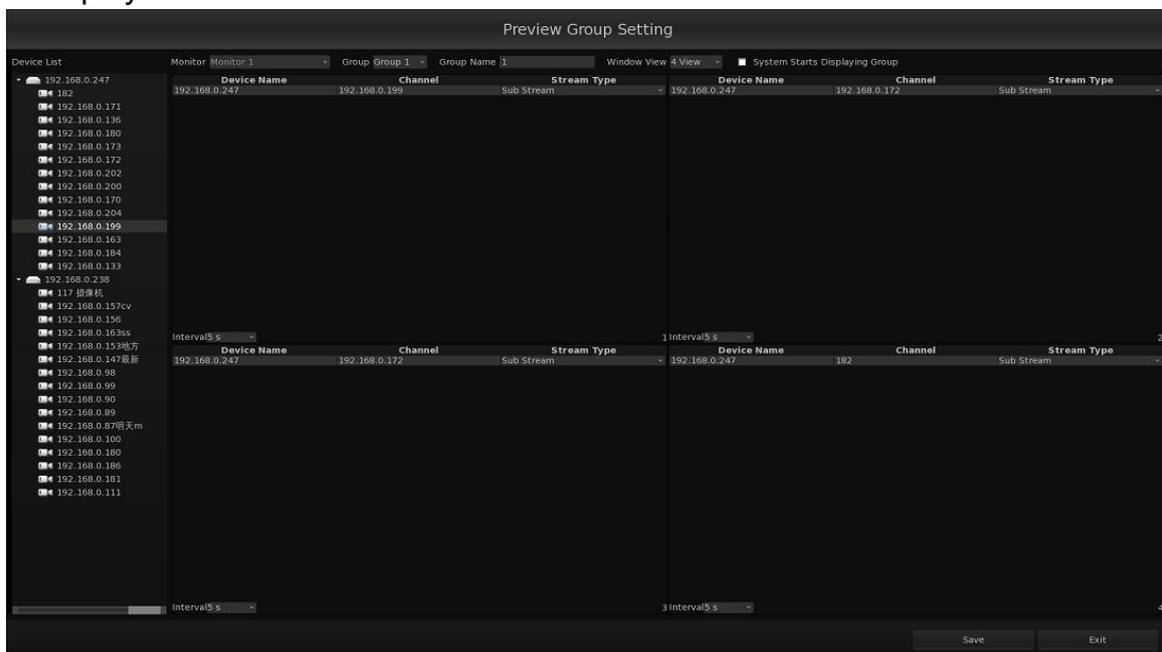


You can step in the **Preview Group Setting** sub window shown blow.

Device List

--It lists all the devices & cameras connected to the system.To see detailed information of the camera, stop your mouse above the camera name.

You can drag&drop any camera in device list to any display window, and double-click it to cancel the display of one camera in one window.



Group Group 1

--Pick one group from the drop-down list to set, system supports maximum 64 groups.

Group Name 1 **Window View 4 View**

--Set group alias and split mode.

System Starts Displaying Group

--Check this box of any group to display it automatically when system starts up next time.

Interval 5 s

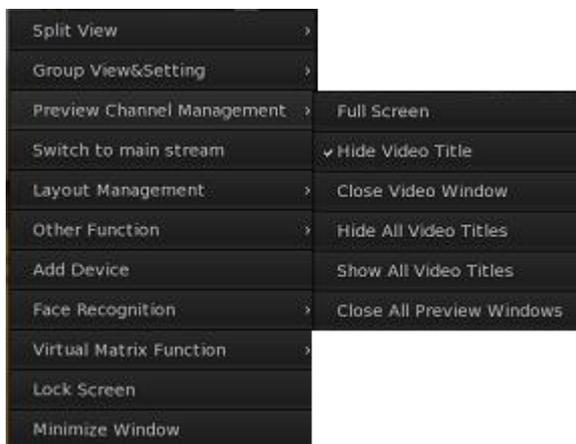
--You can drag&drop multiple cameras into any sub-window for switch viewing,

and the display interval are disable/ 5/10/15/ 20 seconds etc.

Stream Type --You can change the stream type of each camera manually by modifying the stream type in each window.

3. Preview Channel Management

Move the mouse to highlight Preview Channel Management in the right-click context menu to bring up the sub menu for more options.



Full Screen: make the live view area full screen;

Hide Video Title: hide the selected window's video title;

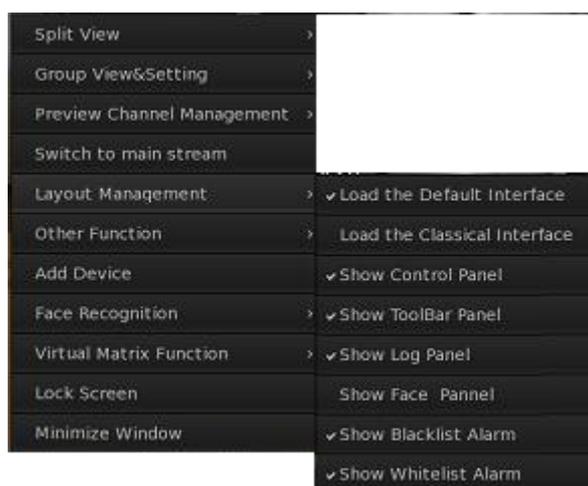
Close video window: close image of the selected window;

Hide All Video Title: hide all video's title;

Show All Video Title: display all video's title;

Close All Preview Window: close all video previews.

4. Layout Management



You can manage the layout in Layout Management setting.

Load the Default Interface: Display live view, information panel, control panel, toolbar panel and log panel.

Load the Classical Interface: Hide all panels, display video only.

Show Control Panel: Check (uncheck) to display (hide) the control panel;

Show Toolbar Panel: Check (uncheck) to display (hide) the toolbar panel;

Show Log Panel: Check (uncheck) to display (hide) the log panel.

5. Other Function

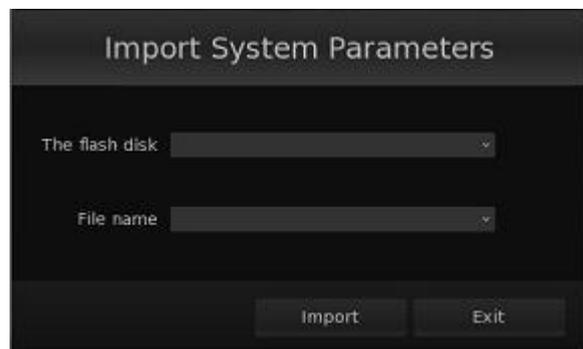
Log Search: It will pop up the Log Search sub menu, shown in picture blow. There are three log contents: Device Alarm, Local Operation and Exception. You can filter the log by these three contents and its filter parameter.

	Time	Log Content	Filter Parameter	Device Name	Channel Name	Stream Type	Operator
1	2018-07-27 02:00:39	Exception	Channel Disconnect	192.168.0.238	192.168.0.156		
2	2018-07-27 02:00:44	Exception	Channel Disconnect	192.168.0.238	192.168.0.157cv		
3	2018-07-27 02:00:44	Exception	Channel Disconnect	192.168.0.238	192.168.0.163ss		
4	2018-07-27 02:00:45	Exception	Channel Disconnect	192.168.0.247	192.168.0.163		
5	2018-07-27 02:01:01	Exception	Data Stream is Interrupted	192.168.0.247	192.168.0.163	Sub Stream	
6	2018-07-27 09:13:51	Exception	Restart				
7	2018-07-27 09:13:52	Local Operation	Start Group Preview				
8	2018-07-27 10:10:50	Exception	Device Disconnected	192.168.0.247			
9	2018-07-27 10:32:52	Exception	Device Disconnected	192.168.0.247			
10	2018-07-27 11:11:08	Exception	Restart				
11	2018-07-27 11:11:09	Local Operation	Start Group Preview				
12	2018-07-27 11:51:18	Local Operation	Setting				
13	2018-07-27 12:50:53	Exception	Restart				
14	2018-07-27 12:50:54	Local Operation	Start Group Preview				
15	2018-07-27 12:51:58	Exception	Restart				
16	2018-07-27 12:51:58	Local Operation	Start Group Preview				
17	2018-07-27 13:35:11	Exception	Restart				
18	2018-07-27 13:35:12	Local Operation	Start Group Preview				
19	2018-07-27 13:47:55	Exception	Restart				
20	2018-07-27 13:47:56	Local Operation	Start Group Preview				
21	2018-07-27 14:00:55	Exception	Channel Disconnect	192.168.0.238	192.168.0.147服务器		
22	2018-07-27 14:05:04	Exception	Restart				
23	2018-07-27 14:05:05	Local Operation	Start Group Preview				
24	2018-07-27 14:12:35	Exception	Restart				
25	2018-07-27 14:12:35	Local Operation	Start Group Preview				
26	2018-07-27 14:13:52	Local Operation	Setting				
27	2018-07-27 14:14:18	Local Operation	Login				admin
28	2018-07-27 14:14:19	Local Operation	Setting				admin
29	2018-07-27 14:14:52	Local Operation	Setting				admin
30	2018-07-27 14:16:38	Exception	Restart				
31	2018-07-27 14:16:38	Local Operation	Start Group Preview				
32	2018-07-27 14:16:43	Local Operation	Login				admin
33	2018-07-27 14:16:48	Local Operation	Setting				admin
34	2018-07-27 14:21:11	Exception	Restart				
35	2018-07-27 14:21:12	Local Operation	Start Group Preview				
36	2018-07-27 14:21:16	Local Operation	Login				admin
37	2018-07-27 14:22:40	Local Operation	Setting				admin
38	2018-07-27 14:22:05	Local Operation	Setting				admin
39	2018-07-27 14:23:32	Exception	Restart				

Export system parameters: Backup the system settings according to your need, You need a USB stick to save the system file.

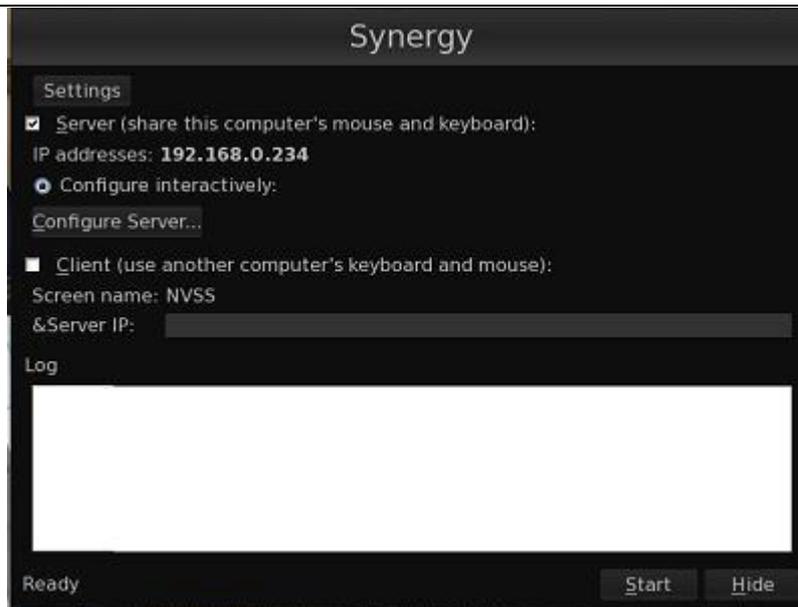


Import system parameters: Restore the system settings from backup file.

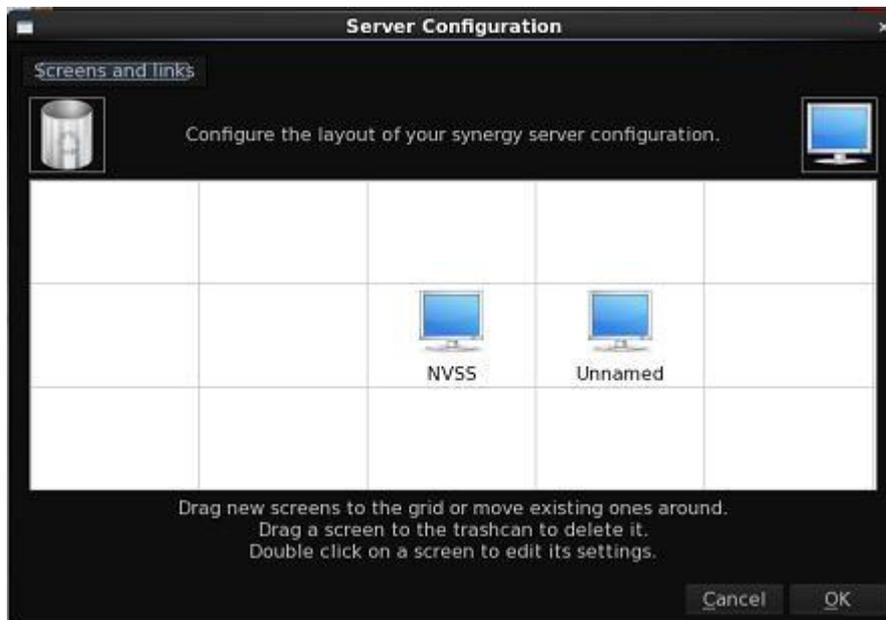


Synergy configuration: Share multiple systems on the server's desktop just by moving your mouse off the edge of one System screen on to another.

- **Configure a server**



The server will share its keyboard and mouse with clients. It needs to know about all clients that will connect to it. To tell server about these clients, click "Configure Server".



1. To add a new client, drag a screen (top right) on the grid;
2. To remove a client, drag the screen to the trash can (top left);
3. To move a client, drag the existing screen to another cell.

Once you added a client to your grid, it names as "Unnamed". You can double click on the icon to modify its name and do some settings.

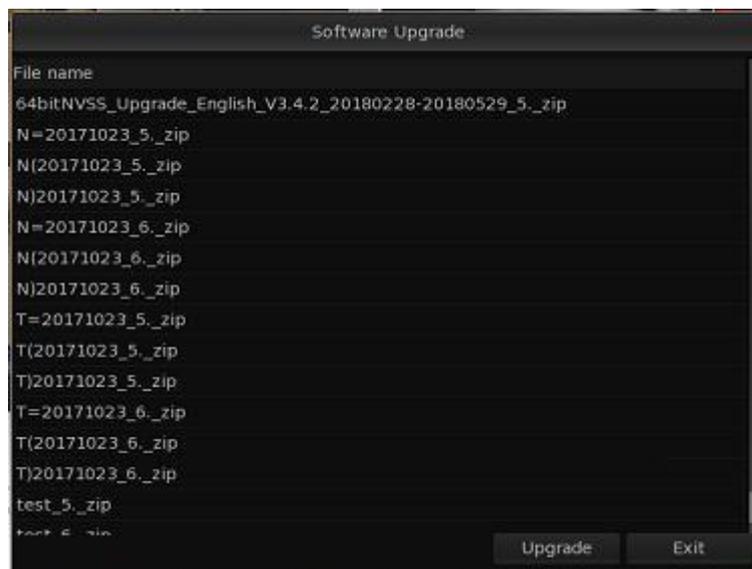
- **Configure a client**

After configuring your server, in the client's "Server IP" text box, input server IP to connect corresponding client to the server, shown in the picture blow.

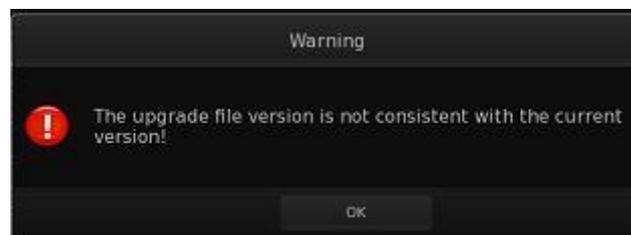


Restart the Synergy: Click here to restart synergy after system reboots.

Update: Click here to upgrade software version, it will show interface as follows.



If the parameter type of upgrade package can't match with current software, it will show a interface as follows



If the date of current software version is less than the start date of the upgrade package, it will show as follows.



Notice: if the upgrade package is matched with current software version, NVSS will reboot to complete upgrading, mustn't plug USB out in this process. It will show 'upgrade success!' as follows.

User Guide: Click here to open user's manual to help users understand software's functions faster and more accurately.

6.Add Device

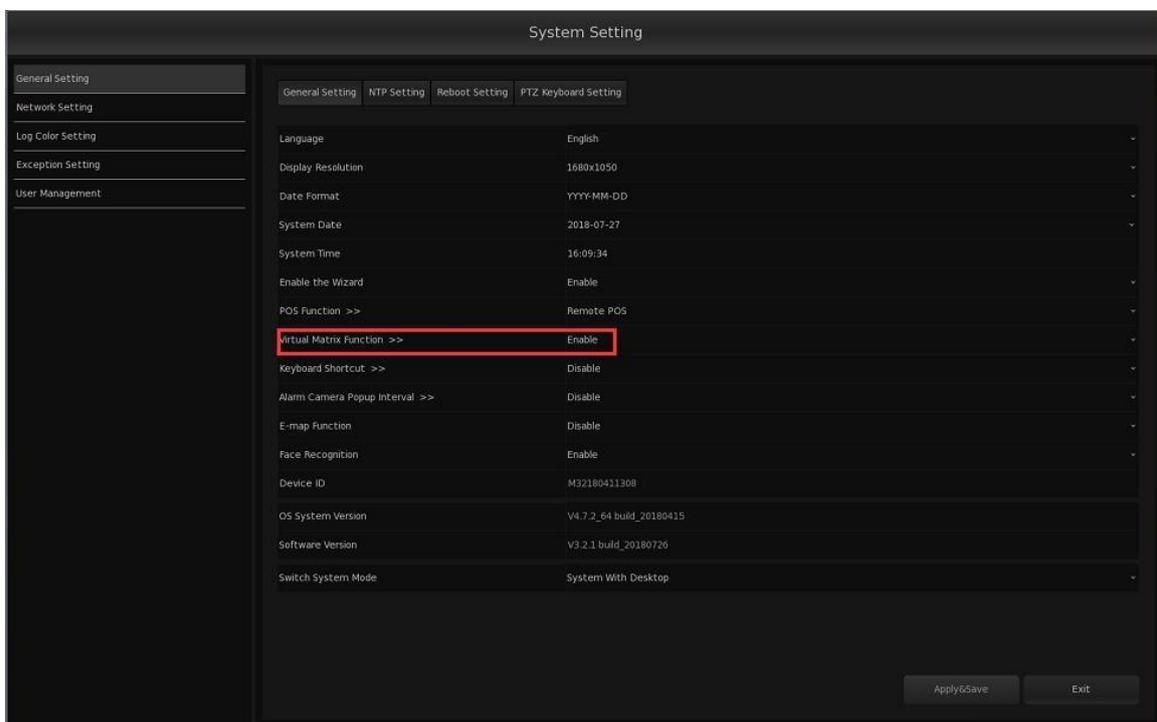
Click "Add Device" in context menu, it will pop up the **Device Management** interface. You can add, modify, delete or search IP device/IPC in the sub-window.

7. Video Matrix Function

Please refer to Chapter 2.3.

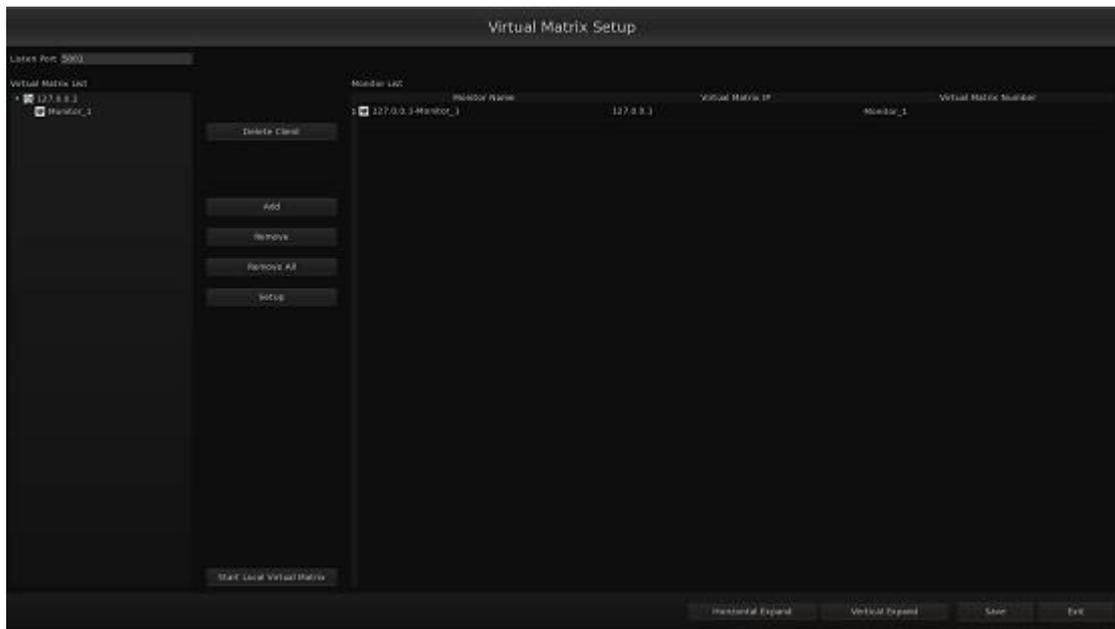
2.3 Virtual Matrix Function

Before using this feature, please enable "Virtual Matrix Function" in System Setting.



2.3.1 Monitor Setup

You can single-right-click to enter the interface of Virtual Matrix Setup in the main interface.



The IP “127.0.0.1” client is called the second monitor. It means dual monitors (includes the main monitor and the second monitor) connected to system. The IP “192.168.0.237” client is IP Matrix machine. The main monitor is current monitor that you can do all functions of system on, and the second monitor of system and all monitors of IP Matrix machine which connect to system are defined as Virtual Matrix monitors.

The IP “127.0.0.1” client is called the second monitor. It means dual monitors (includes the main monitor and the second monitor) connected to system.

Start Local Virtual Matrix ---Click on this button to help system recognize the second monitor.

Horizontal Expand & **Vertical Expand** ---Adjust the second monitor’s image to display more friendly.

Delete Client ---It’s a client just like this **127.0.0.1**, select it and click button **Delete Client** to delete it from Virtual Matrix List.

Add ---Select one monitor from Virtual Matrix List, then click button **Add** to add this monitor to Monitor List (or double click one monitor to add it).

Remove ---Select one monitor from Monitor List, then click button **Remove** to remove it.

Remove All ---click this button to remove all monitors in the Monitor List.

Setup ---Select one monitor from Monitor List, then click button **Setup** to enter the interface of Monitor Setup (or just double click one monitor to enter).

Virtual Matrix Number
Monitor_1 ---You can modify monitor(s)’s name here.

2.3.2 Group Setup

You can set as many as 16 groups for each TV monitor. Select a group from the drop down list to set it, you can define its name and partitions, the changed name will be active after saving

configurations. There are 1/4/9 and 16 partitions modes.

Default Stream Type --It includes “Main Stream” and “Sub Stream”. After you select one default stream type, each camera you dragged to the sub-window would be displayed as the selected stream.

Note:

You can manually change the stream type of each camera by modifying the stream type in each sub-window. This setting will overwrite the “Default Stream Type”.

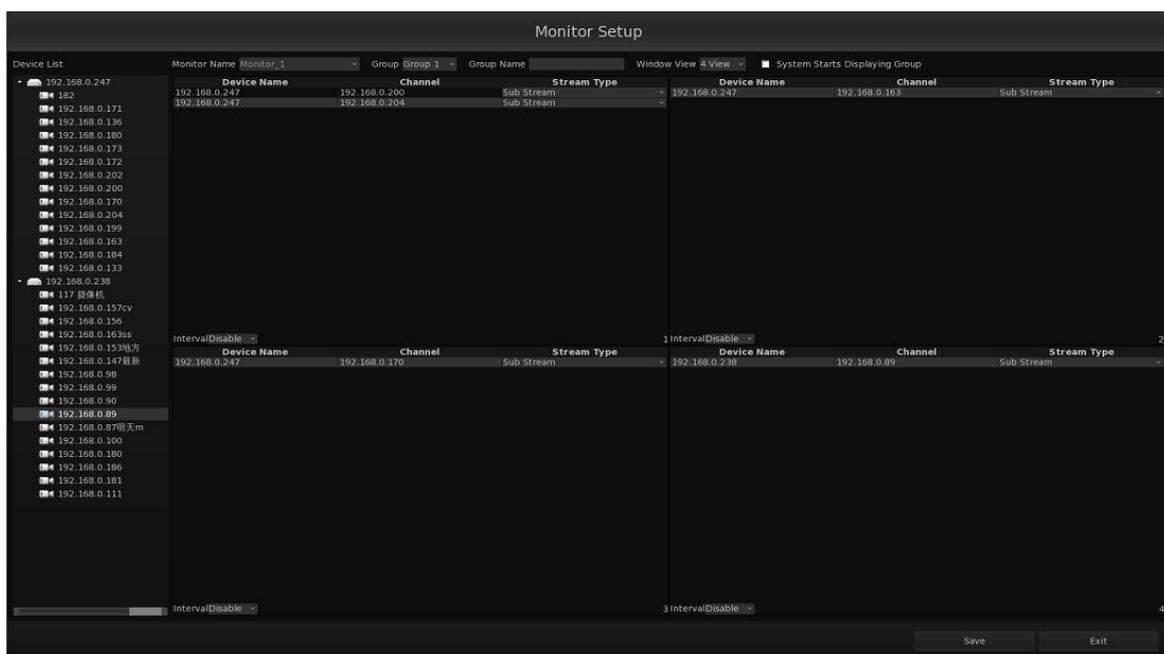
Monitor Name **Monitor_1** -- You can select any monitor to configure camera displaying sequence or switch viewing interval. If there is only one monitor, this option would be not selectable.

Group **Group 1** --Select a group to setup, support maximum 16 groups.

Group Name **Group 1** **Window View** **4 View** -- Define group's name and partitions.

System Start Display Group --Check this checkbox and save it for the system to show next time the system boots up.

IntervalDisable --You can drag multiple cameras into one sub-window for switch viewing, and the switch interval options are disable/5/10/15 and 20 seconds etc



2.3.3 Monitor Control

Select “Virtual Matrix Function>>Open All Monitor” in context menu to view all the monitors connected to the system, you can drag them to anywhere on the main interface, the names of cameras on TV client will be shown in the monitor window. Also you can open only one monitor at a time via selecting it below “Close All Monitor”.

You can adjust the view mode, select cameras or groups to display, and control PTZ on the monitor you opened just now.

View :Click this button to adjust window split mode, including 1/4/6/9/13 and 16 views

mode. And click “restart”, the current TV client will be restarted.

: Click this button to select a group set in Virtual Matrix Setup to display, or click “Close All” to close all images.

Tips:

You can drag cameras from Device List panel or preview interface to monitor window to display.

: Click “PTZ” button to enter PTZ control menu. PTZ can only be controlled when select PTZ camera, it is similar to the operation on PTZ control panel. But you can only call the preset set in channel setting.

: Click “Hide” button to hide monitor window.

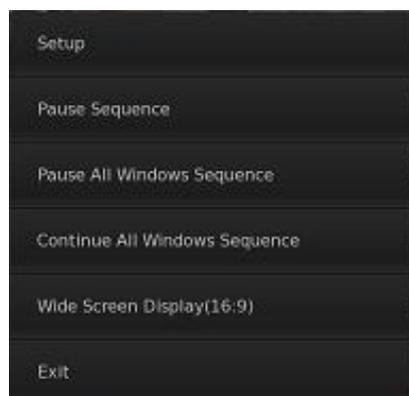
Close Image: Single-right-click on one sub-window of monitor window, and then press “Close Image” to close current video view.

Pause/Continue Sequence: Single-right-click in any sub-window to pop up a sub-menu, then press “Pause Sequence” to stop sequence in that window. After “Pause Sequence” is pressed, it will turn to “Continue Sequence”, when you enter the sub-menu again, press it to continue the sequence in this window.



2.3.4 Operations on TV Client

Right-click on the local TV Client to bring up following menu. You can adjust camera displaying sequence and image displaying mode here.



2.4 Information Panel



This panel shows product's logo, current date and system time and CPU occupancy rate.

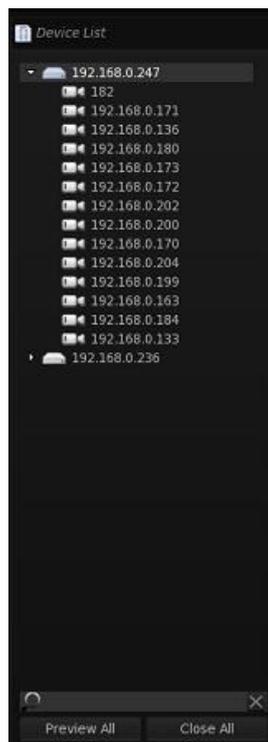
The color of CPU percentage is changing according to its value. Usually, the higher CPU causes the darker color. 0-70% the text color would be 123; 70-80% the text color would be 123; 80-90% the text color would be 123; 90-100% the text color would be 123.

2.5 Control Panel

2.5.1 Device List

All the connected IP devices will be shown in the Device List. You can get detailed connection information when the mouse stops above a device figure.

You can also know the connection status about devices.



Device status:

-  --The IPC is online;
-  --The IPC is offline;
-  --The NVR/DVR is online;
-  --The NVR/DVR is offline.

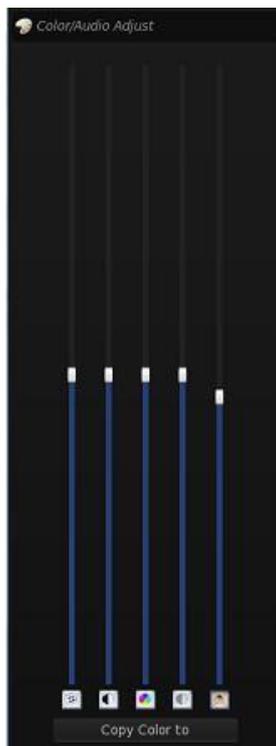
Users can preview any video in the device list by dragging a device/camera to any live view

window. And also you can input device name and channel name in the box  to search the device you want(eg: 247/192.168.0.112).

 -- you can open all connected cameras' sub stream or 9 channels main stream by clicking this button.

 -- you can close all preview cameras by clicking this button.

2.5.2 Color/Audio Adjust



pic2-4-2

The detailed function of each button:

 -- Move slider to adjust the brightness of the image which you select, click this button 

to resume its default value;

 -- Move slider to adjust the contrast of the image which you select, click this button 

to resume its default value;

 -- Move slider to adjust the hue of the image which you select, click this button 

to resume its default value;

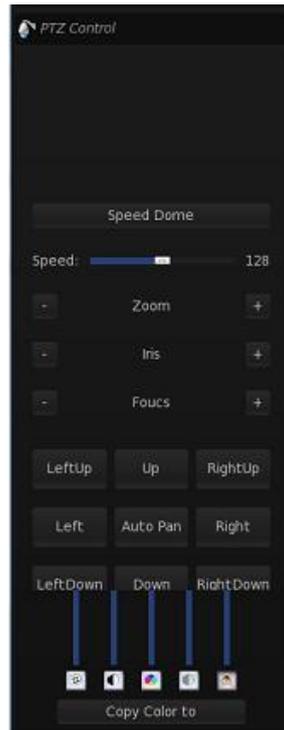
 -- Move slider to adjust the saturation of the image which you select, click this button 

to resume its default value;

 -- Move slider to adjust the volume, click this button  to turn off the audio.

 --Click this button and select cameras to copy the color and audio adjustment to them.

2.5.3 PTZ Control



The detailed function of each button:

Speed Dome

-- Please set presets for PTZ cameras in Channel Setting first, then you can

select a PTZ camera in live view window and click on this button to pop up this menu to call a preset or tour group.



Speed: [Slider] 128

-- Move the slider to adjust PTZ speed. It ranges from 1 to 128, the bigger number the faster speed.

Zoom [-] [+]

-- Zoom in and zoom out.

Iris [-] [+]

-- Override the PTZ camera's auto-iris and brighten or darken the image.

Focus [-] [+]

-- Adjust focus, normally used for motorized zoom camera. PTZ camera has auto focus function.



-- Direction control by pressing and holding these buttons.

Auto Pan

-- Auto Pan depends on PTZ camera hardware function. Many companies set Auto Pan disabled by default.

2.5.4 DI/DO Control



You can get the name of DI/DO when the mouse stops above the number button.

You can set DI status in Channel Setting. When there is no alarm triggered out, you can press the number button to output alarm forcibly and the button will become blue. Press it again, the output will be closed and the button will become gray.

The status of DI/DO:

-  -- DI/DO port is not in alarm trigger.
-  -- DI/DO port is in alarm trigger.

2.6 Toolbar Panel

Split view

Press  button to set split view mode of the main screen.

System Setting

Press  button to enter the System Setting interface, please refer to Chapter3 for details.

Playback

Press  button to enter Playback sub-menu to search local video/audio data. please refer to Chapter4 for details.

Group view & Setting

Press  button to bring up sub-menu in which you can:① Call pre-stored group;② Save current view into a group;③ Enter Preview Group Setting interface.

Manual Record

Press  button to begin Manual Record for all cameras, the record status will change to  immediately, and press it again to stop Manual Record. Manual Record has priority to overwrite all other system record settings.

Capture

Press  button to grab a picture of a selected camera to local hard disk. You can view and download the captured picture in the Search Images of playback.

Note:

If the size of all the captured pictures exceeds 2G, system would automatically delete half of them to free disk space.

Channel Setting

Press  button to enter Channel Setting window.

Device management

Press  button to enter Device Management sub window.

E-Map

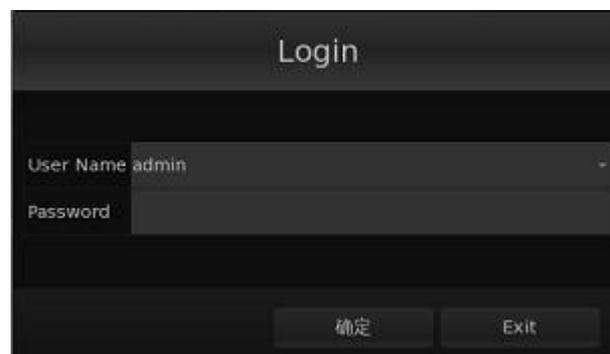
Firstly, make the “E-Map Function” enable in System Setting.

Press  button to enter E-map window

Lock Screen (ON/OFF)

Firstly, make “Local Password” in System Setting enable.

Press  button to prevent unauthorized user to operate system. Press it again, the login dialog box will be displayed as shown below. Input your User ID and password then press OK to unlock it.



Note:

1. Default User ID is “admin”, password is “admin” too.

2. If you disabled the Local Password, the icon  would be hidden in toolbar panel.

Power

Press  button to enter the power management sub-menu as shown blow.



You have three options to choose: Logout, Restart or Shutdown.

Note:

If the buffer of data is being written to the HDD, it will spend a little more time to shut down the system.

2.7 Log Panel

The log panel displays all real-time system log information. You can search all log history in Log Search. You can also set different font color for different log information in the Log Color Setting.

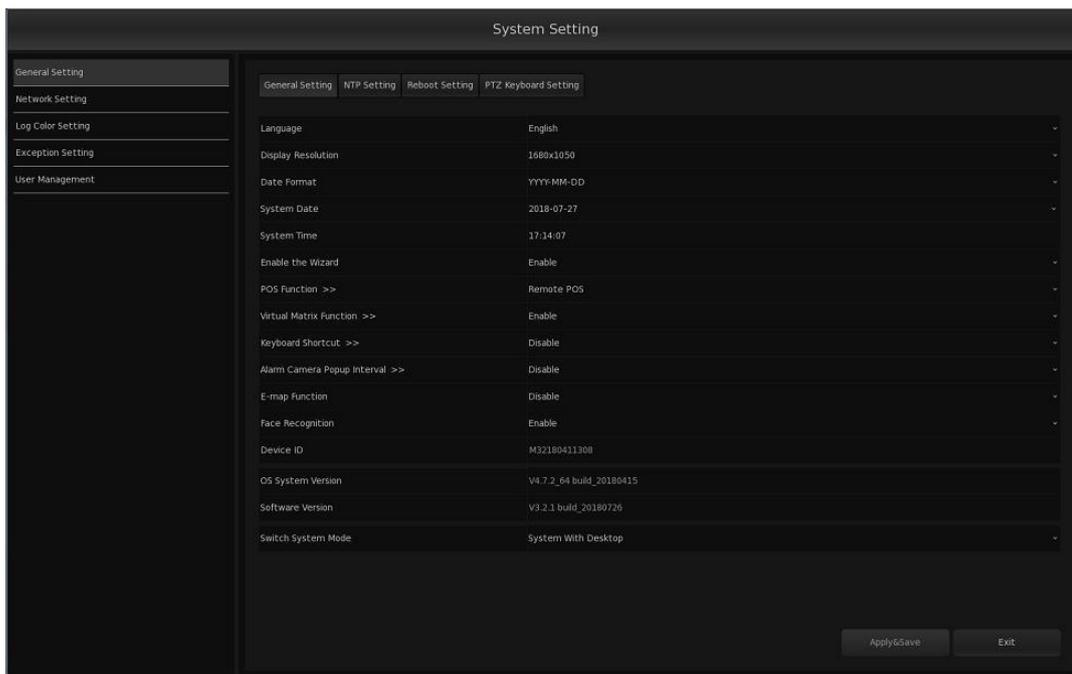
Log Content	Filter Parameter	Device Name	Channel Name	Stream Type	Operator	Other
al Operation	Add Device	192.168.0.236				
al Operation	Add Device	192.168.0.247				
al Operation	Setting					
al Operation	设置					
al Operation	删除设备	192.168.0.236				

Chapter3 System Setting

The System Setting includes 5 parts:General Setting, Network Setting, Log Color Setting , Exception Setting and User Management.

3.1 General Setting

3.1.1 General Setting



【Language】 Set system language.

【 Display Resolution 】 Set system display resolution, normally system will automatically adjust its display resolution according to the monitor's resolution. You can also choose other resolution supported by the monitor in the drop-down box.

【Date Format】Set OSD date format. There are three options: YYYY-MM-DD, MM-DD-YYYY, DD-MM-YYYY.

【System Date】 Display the current system date. You can only change the date in BIOS.

【System Time】 Display the current system time, you can adjust the time here.

【Enable the Wizard】 Enable or disable the wizard when the system starts up.

【POS function】 Disable or enable the POS function to get POS from remote NVSS

【Virtual Matrix Function】 Enable or disable the Virtual Matrix function.

【Keyboard Shortcut】 Turn on or turn off the shortcut function of computer keyboard.

【Alarm Camera Popup Interval】 Setup the time interval for the alarm pop-up cameras.

【Device ID】 Display the ID of System.

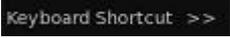
【OS System Version】 Display the system OS version.

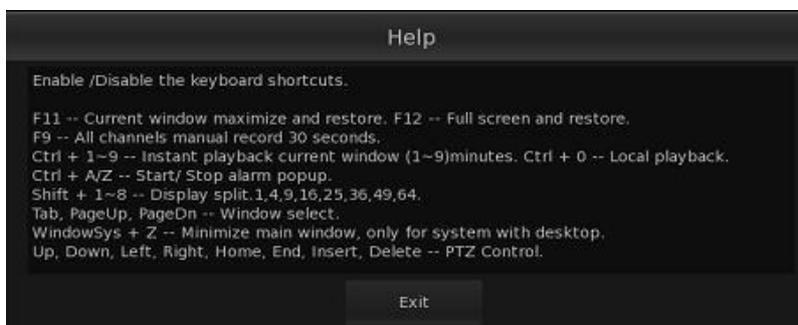
【Software Version】 Display the system software version.

【 Switch System Mode 】 Turn on or turn off the Linux Desktop.For high security system, please turn off Linux Desktop function to prevent operators to do something unrelated with

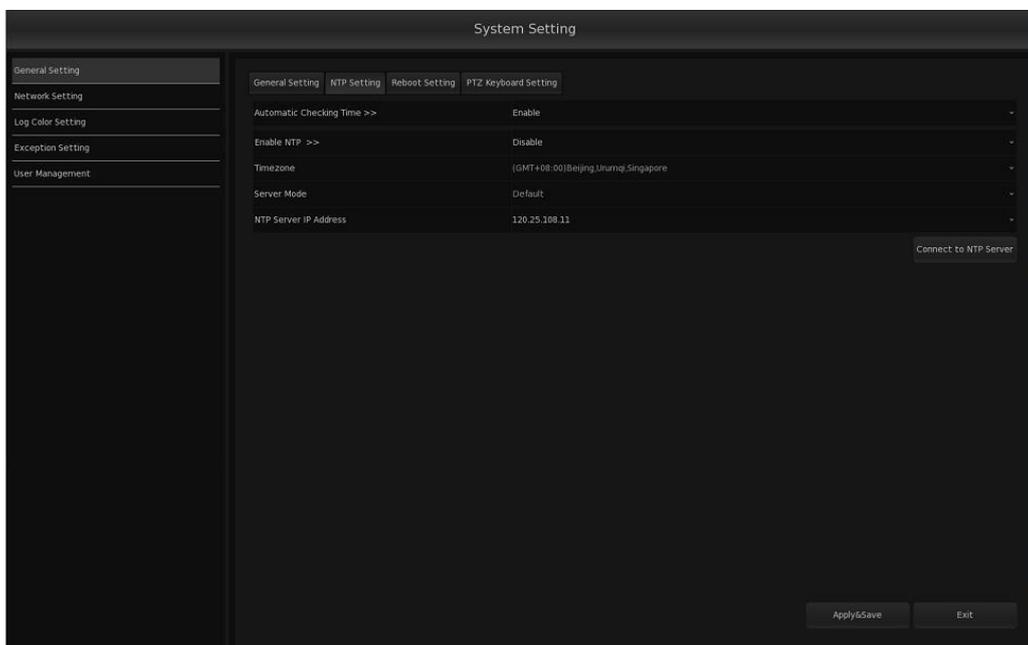
surveillance.

Note:

We add explanations for some functions, double click on  such as , to pop up help information, shown as below.



3.1.2 NTP Setting



【 Automatic Checking Time 】 This function can calibrate the time of all the connected devices.

【 Enable NTP 】 After you enable NTP(Network Time Protocol) feature, please choose correct Time Zone for your system. Normally you don't need to change this setting.

【 Time Zone 】 Select one time zone that you want.

【 Server Mode 】 Two kind of modes: Default and Customize.

【 NTP Server 】 The default NTP server IP address is 128.138.141.172, you can also set other NTP server addresses after you select "custom " mode in server mode.

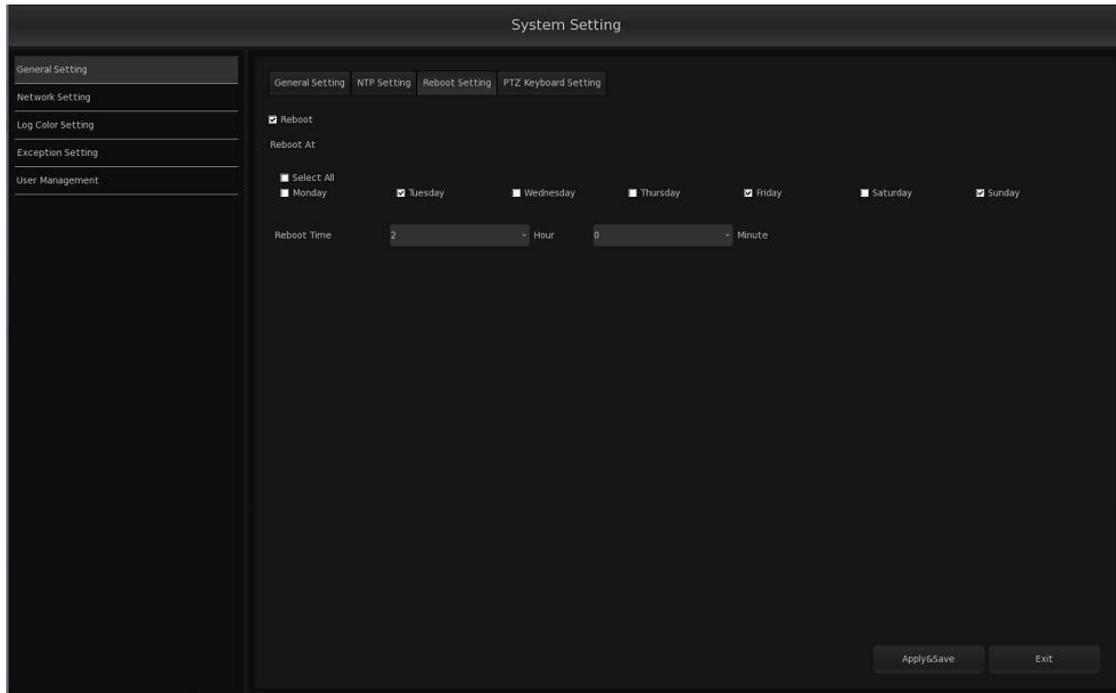
3.1.3 Reboot Setting

Setting 1-2 times reboot per week is necessary to free RAM resource, it will be helpful to keep system more stable for long time working.

【 Reboot 】 Check on Reboot checkbox to enable reboot function.

【 Reboot At 】 Set auto-reboot date here.

【Reboot Time】 Set auto-reboot time here.



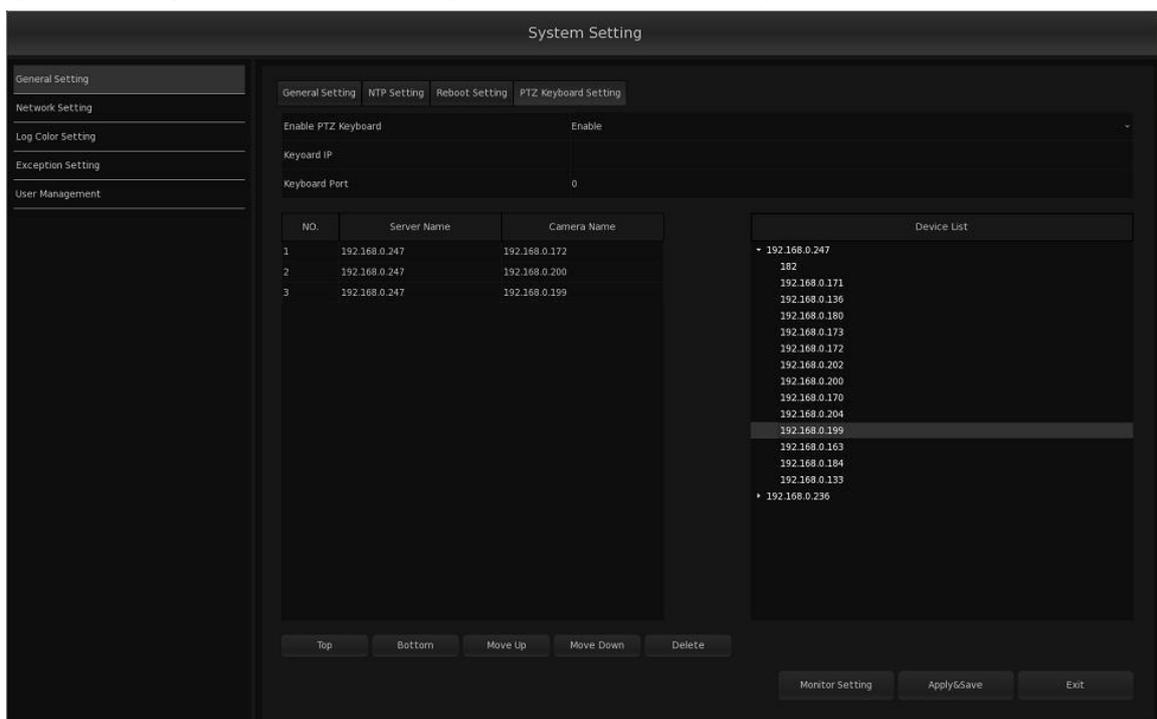
3.1.4 PTZ Keyboard

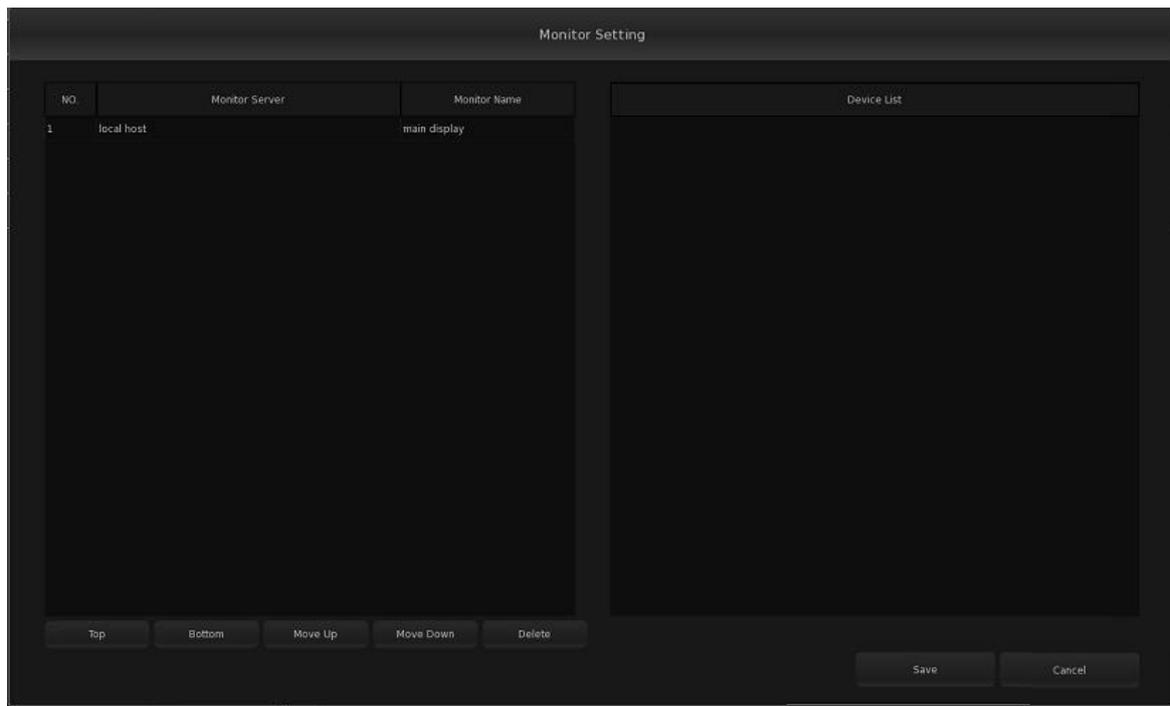
【Enable PTZ Keyboard】 Set Enable to turn on the PTZ keyboard function.

【Keyboard IP】 Input the IP address of IP keyboard.

【 Keyboard Port 】 Input keyboard port number. After finishing these settings, the IP address of system can be searched and displayed on the screen of IP keyboard.

Double click the device name from Device List to add it into left panel which lists cameras that will be controlled by the IP Keyboard. Click button “Monitor Setting” to enter Monitor Setting interface, you can adjust monitors display sequence and modify monitor’s name.





Operations on IP Keyboard:

1. **ESC**: Return to the previous interface.

2. **SETUP**: Press the button to get into system setting of the keyboard. There are Network Mode, Sound, Language, Password and Default. You can only use the joystick to choose options.

Network Mode: It includes two options(Static and DHCP) that you can choose through the joystick .

Sound: You can choose whether open the sound of the keyboard or not.

Language: Set IP Keyboard language.

Password: Set keyboard's password.

Default: Click to restore your keyboard settings to default.

3. **Inquiry**: You can view the client list by pressing the button.

4. **Lock**: Press the button to lock keyboard system. Press it again to input the password to unlock it.

5. **Single**: Current window maximize and restore.

6. **Full**: Full screen and restore.

7. **Views**: Press the button and input a number for split views, press the button "OK" to take effect.

8. **CAM**: Press the button and then input camera number set in the System(PTZ Keyboard Setting), it will show the camera with single view.

9. **Win+/Win-**: Press the button to select a window on the monitor.

10. **Group**: Press the button and then input group number set in the System-->Virtual Matrix Setup to show the group.

11. **MON**: Press the button and then input the monitor number(you can view the number in the PTZ Keyboard Setting-->Monitor Setting in System), then you can control the monitor you choose.

13. **Title**: Press the button to show/hide all video title.

14. **REC.**: Press the button to make all record types change to manual record. Press it again to restore.

15. **Grab**: Press the button to grab.(it only works on the software decode)

16. **Tours**: Please select the PTZ camera and then press the button to input the Tour Group number

set in the System.

17. Alarm On: Press the button to Enable the alarm camera popup.

18. Alarm Off: Press the button to Disable the alarm camera popup.

19. Inst Play: Press the button to input the number(1-9,represents 1min-9min),and then current window will be instantly played back. If you input “0”,it will get into local playback. Press the “Stop” button to exit playback.

20. Set Preset: Please select a PTZ camera first. Press the button and then input number to set a preset.

21. Clear Preset: Please select a PTZ camera first. Press the button and then input number to clear the preset.

22. Call Preset: Please select a PTZ camera first. Press the button and then input number to call the preset.

23. Focus+, Focus-:Auto-focus setup of the PTZ camera overrides, adjusts to focus the image.

24. Zoom in, Zoom out: Zoom function of the PTZ camera control.

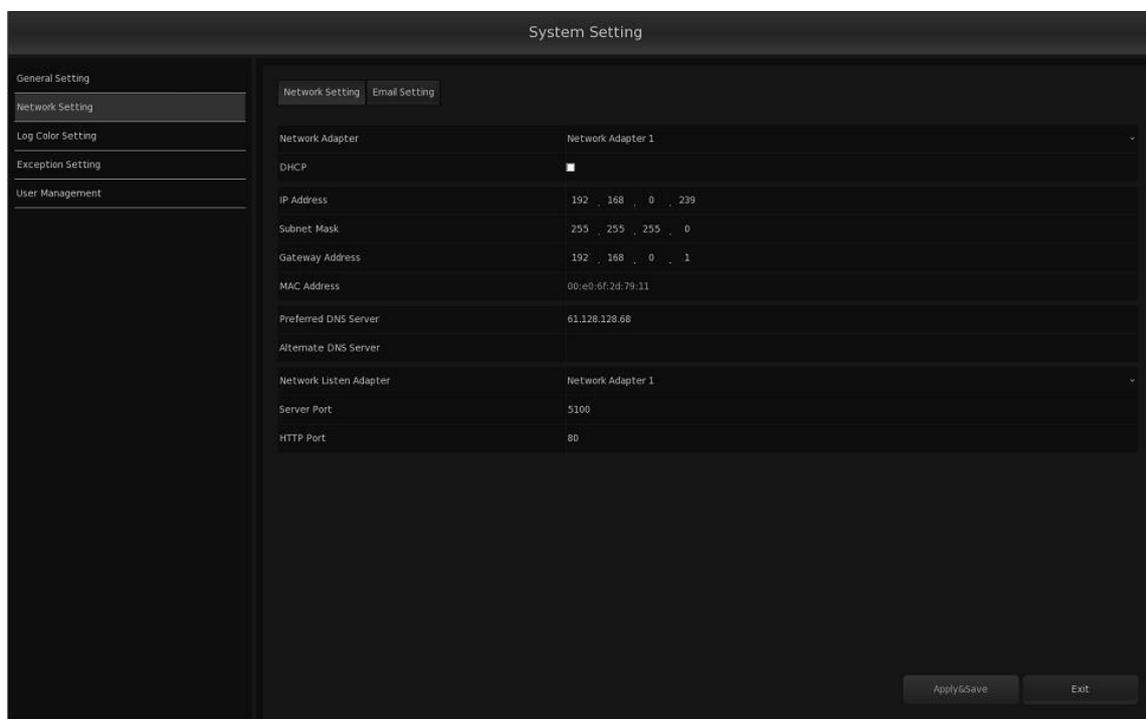
25. Iris+,Iris-:Overrides the PTZ cameras auto-iris and brighten or darken the Image.

26. Auto Pan, Wiper, Relay: It can not work now, please wait for the function update.....

27. Joystick:Please select a PTZ camera first. You can control direction by rocking the joystick.

3.2 Network Setting

3.2.1 Network Setting



【 Network Card Working mode 】 Independent Working Mode:Each network interface works as normal. The Network Card Binding Mode: all the network card are bound with the same one IP address.A prepared network card will replace the wrong network card to continue working.

【 Network Adapter 】 There are multiple network adapters on the motherboard, please choose network adapter one by one to configure.

【IP Address】 Please input static IP address here according to your local network configuration.

【Mask Address】 Please input the subnet mask here.

【Gateway Address】 Please input the default gateway here. For your attention: Only the “Network Listen Adapter” could be input Gateway Address.

【MAC Address】 Display the adapter MAC address.

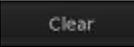
【Preferred DNS Server】 Please input first DNS Server here if the System is connecting to WAN.

【Alternate DNS Server】 Second DNS server here.

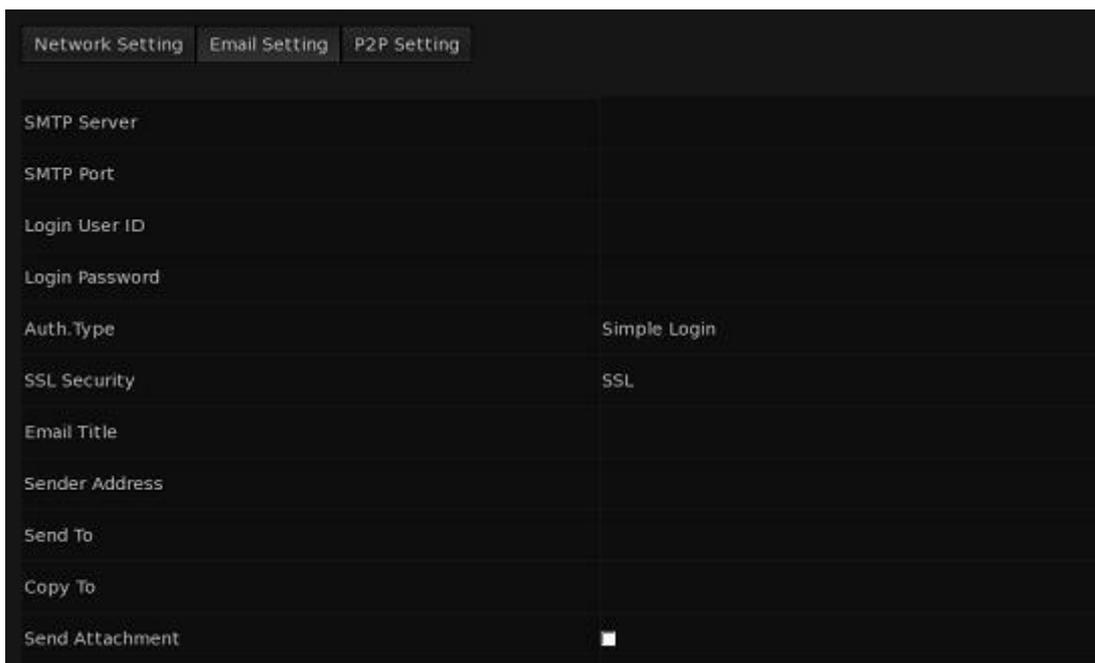
【Network Listening Adapter】 Please choose the network adapter which can be connected by clients.

【Server Port】 Display the data port of the system, you can modify it here.

【HTTP Port】 Display the http port of the system, you can modify it here.

---There will be a button  showing up in the above interface and the interface of network setting in the **Guide** after you changed the motherboard of the SSD. Before configuring network information, please click it to clear the old network information. It won't show up unless you change another motherboard for the same SSD.

3.2.2 Email Setting



【SMTP Server】 SMTP server address, e.g.: mail.jstHybridNDVR.com.

【SMTP Port】 SMTP listening port for connect request.

【Login User ID】 The ID of Email box.

【Login Password】 The password of Email box.

【Auth. Type】 Login Email box, operator should select SMTP authentic type. Or select “simple login”.

【SSL Security】 Security protocol for Email box.

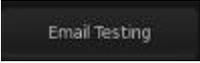
【Email Title】 Enter title of the Email to be sent.

【Sender Address】 Enter email address of sender. It should be the same with Login User ID.

【Send To】 Set the address of receiver.

【Copy To】 Set another address of receiver.

【 Send Attachment 】 Check on to enable attachment sent with Email.

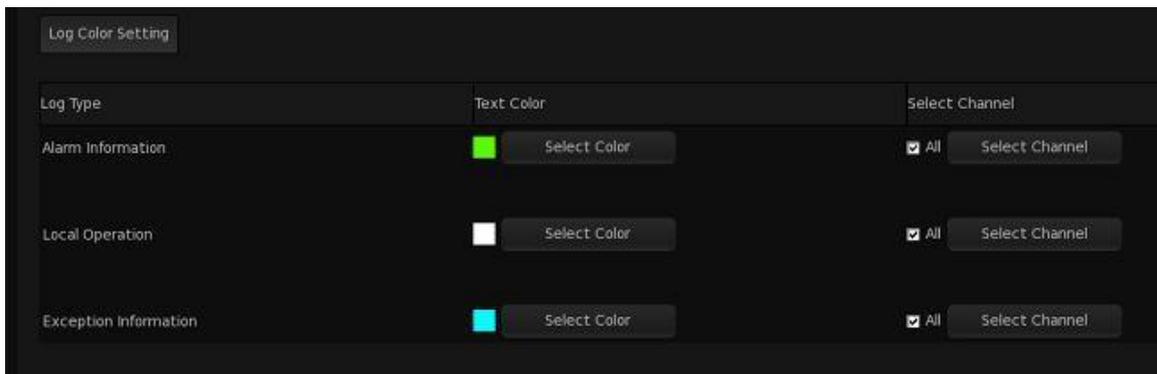
When the setup is finished, user can press  to test the function.

3.3 Log Color Setting

Log Color means system log font color, please follow blow interface to choose the color you like.

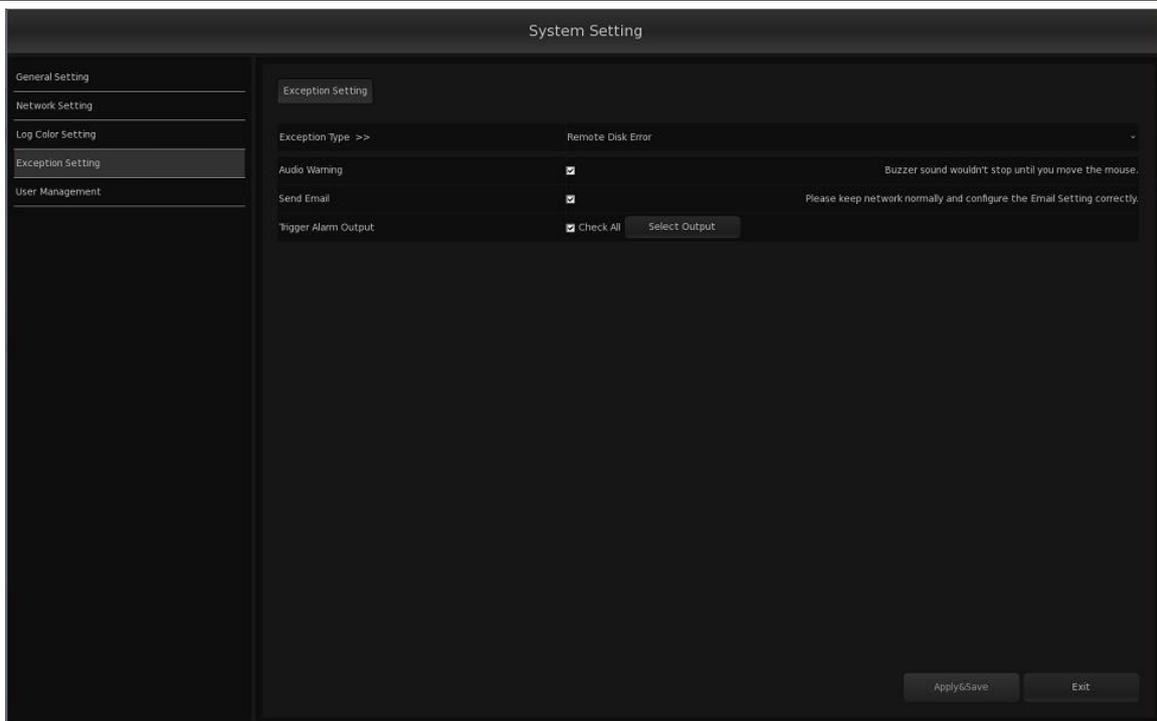
Tips:

Selecting corresponding log type and cameras is one of the necessary conditions to output Motion Alarm log, Sensor Alarm log and Video Analysis Alarm log.

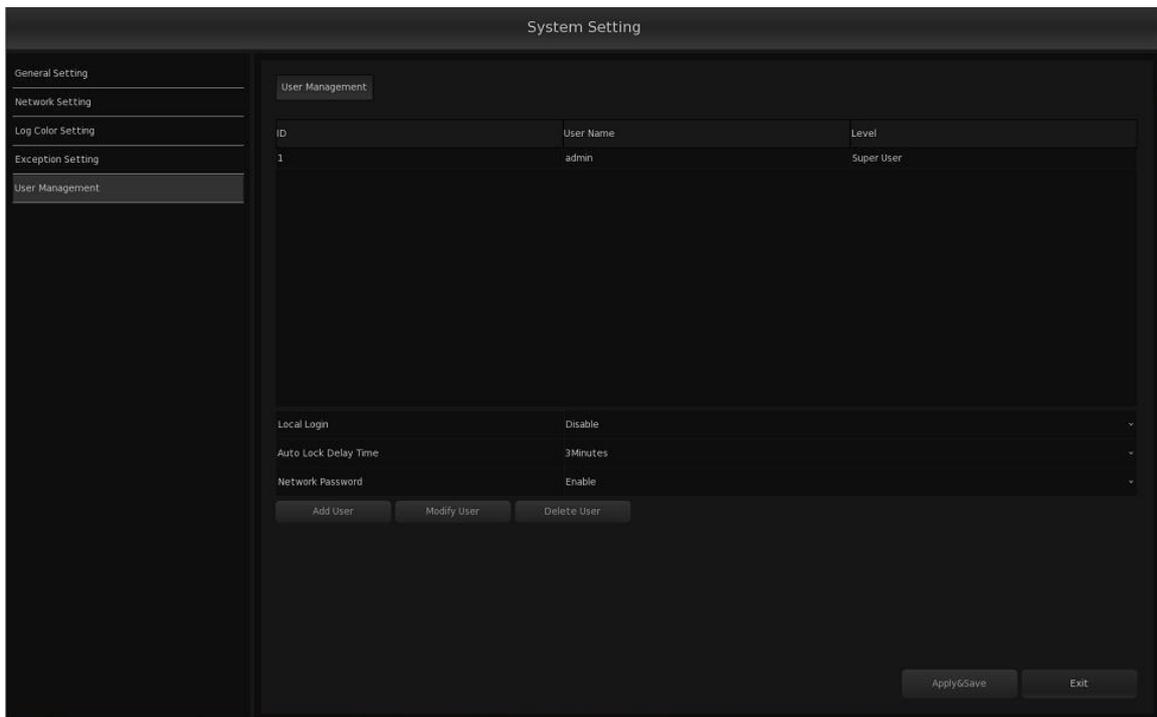


3.4 Exception Setting

Set system how to take action when exception occurs. There are two types of corresponding action: ① Audio Warning; ② Send Email. The system exceptions include Remote Disk Error, Remote Disk Full, Remote Device Disconnect, Remote Camera Disconnected, Local Reboot Exception.. Please follow the blow interface to do setup.



3.5 User Management



【ID】 List the number of users.

【User Name】 Show all user names.

【Auth. Level】 Show the user type.

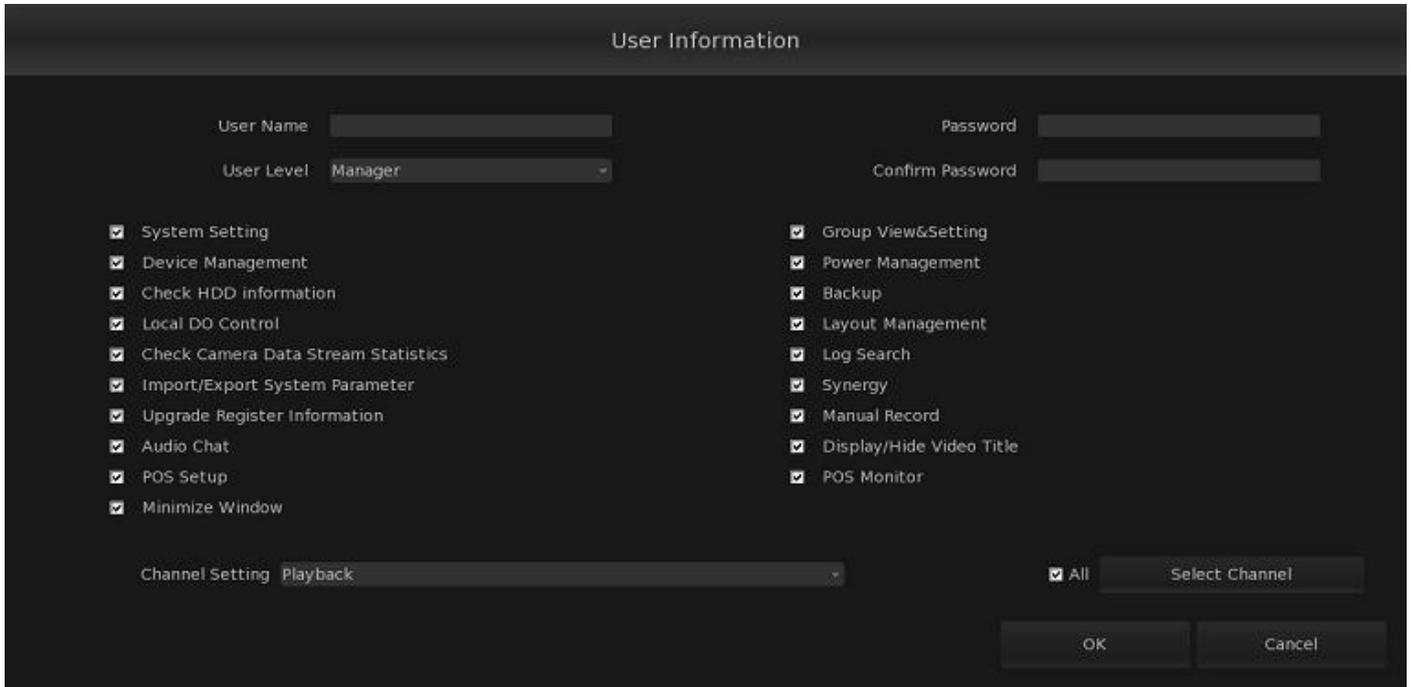
【 Local Password 】 Enable or disable User Management function. Selecting Enable will activate the lock button in the main interface.

【Lock Screen Delay Time】 Select “Disable” to disable the automatically lock screen function, or you can select 3,6,9,12,15 minutes interval to lock the system automatically after nobody

operates on the system.

【Network Password】When you enable this function, remote access client must pass system authentication.

【Add New User】 Click  icon to add new user.it will pop up “User Information” interface, as shown blow.



In the User Information window, please input the user ID and password then select its user level type.Please follow the screen to check/uncheck the general user rights for the new user.

For cameras permissions,there are 5 types of operation permissions:①playback, ②capture picture ,③channel setting ,④preview video , ⑤PTZ control. Please pick one type of Channel Setting permission then click on button  to assign this permission to corresponding camera(s).

【Modify】 Select a user from user list, then click  button to modify it.

【Delete】 Select a user from user list, then click  button to delete it.

Note:

Only the Super User has the right to add or delete a user, the it also has the right to manage the password for each user.

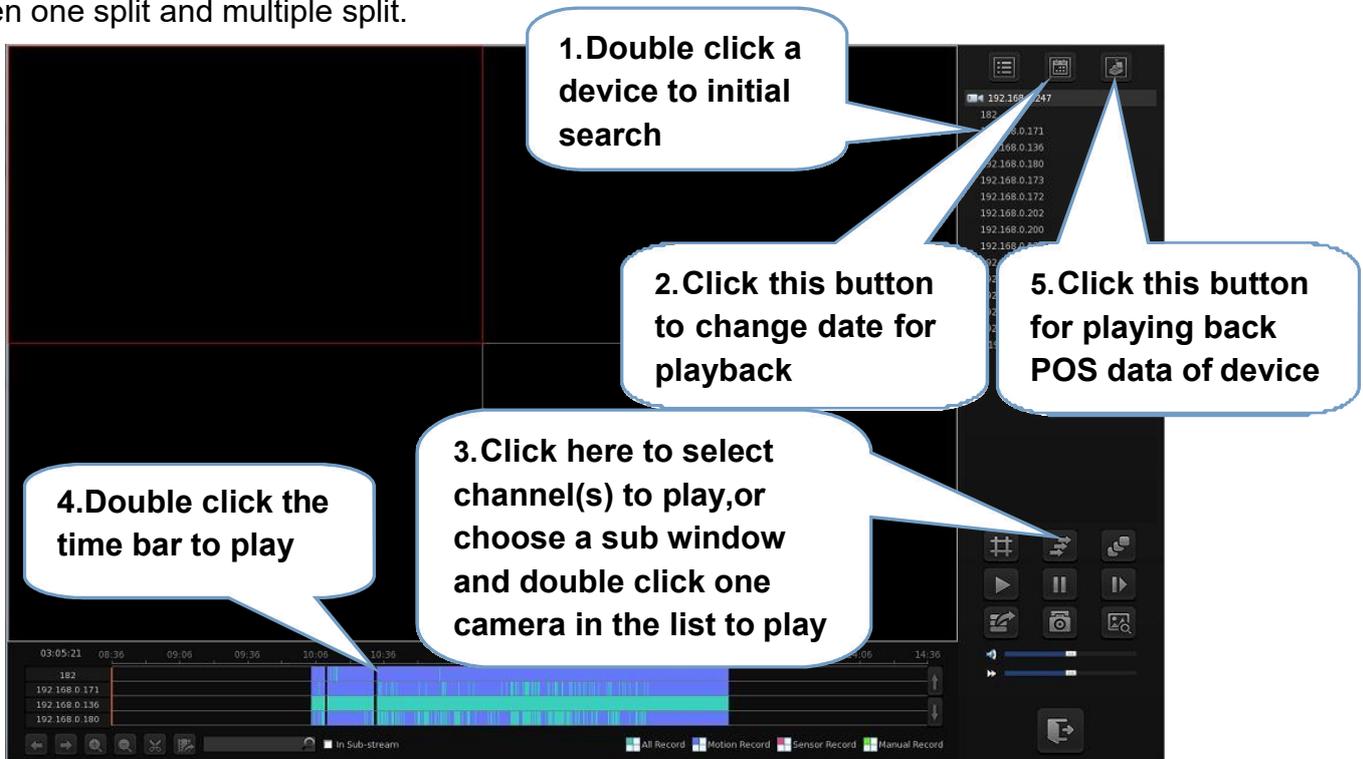
Chapter4 Remote Playback

Press the icon  on the Toolbar Panel to enter the playback interface. The default split view is four window views.

In the process of playback, the first step is to double click a device to connect, then it will pop up a dialog box to select a period of time for today(double click to select the whole day; right-click to cancel the selected period).Or you can click  to bring up calendar to change date.

Tips:

1. When the mouse moves close to,or stops at an icon,a short description tip about the button's meaning will show up immediately.
2. Right click the picture to switch full screen viewing mode.Double click one image to switch between one split and multiple split.



  ---Click these buttons to zoom in / zoom out the time bar.You also can scroll the mouse wheel to zoom in / zoom out the time bar too.

  ---Click these buttons to move the time bar slices.

---Input camera name for fast search and play.

 ---Click this button to start a video clip when the camera is playing back(only for highlighted channel),click on it again to stop the video clip.

 ---After finish the video clip,click on this button to save the file,then It will bring up Backup

interface, refer to 4.1 Backup.



---Click these buttons to show other channels.



---Press this button to set split viewing mode of playback windows, there are 1/ 4/9/16 splits;



---Press this button to play all cameras in current split view. If the cameras number exceeds the split view number, you should be asked for choosing..



--- Press this button to close all playing video and bring up the calendar panel for searching other date;



--- click this button to go back 1 minute, right click this button to choose how many minutes you want to go back.



--- click this button to go forward 1 minute, right click this button to choose how many minutes you want to go forward.



-- press this button to pause, press it again to play;



-- press this button to play next frame;



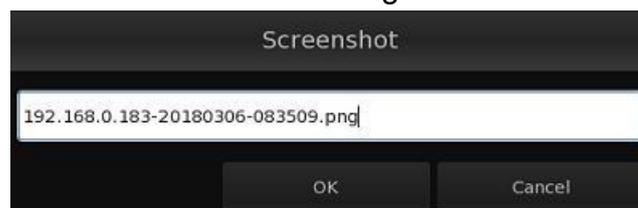
-- Adjust playing speed. Click the  button to resume normal playing speed;



-- Adjust the audio. Click the  button to close the audio.



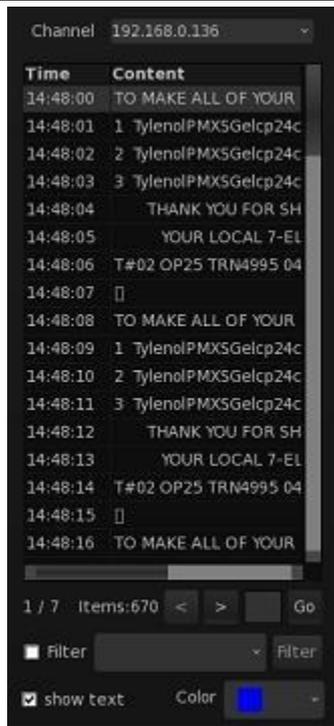
--- Press this button to grab a picture, when a picture is grabbed, there will be a dialog popped up to ask for a file name. The size of the image is resolution of the video.



4.1 Remote POS Playback



Click  to enter remote pos playback , you will see the interface shown blow.



You can choose the channel you want to play by clicking , choose the channel and double click the pos data, then you will preview the pos data in the video window you choose, you can input keywords into  to filter the pos data and you can choose “show text” to show the pos data in the video window. User can change the color of POS in playback here .

Note:

If there is no pos data in the video you searched for, the icon  will become disabled and not clickable.

4.2 Backup



-- Press this button to enter the backup interface

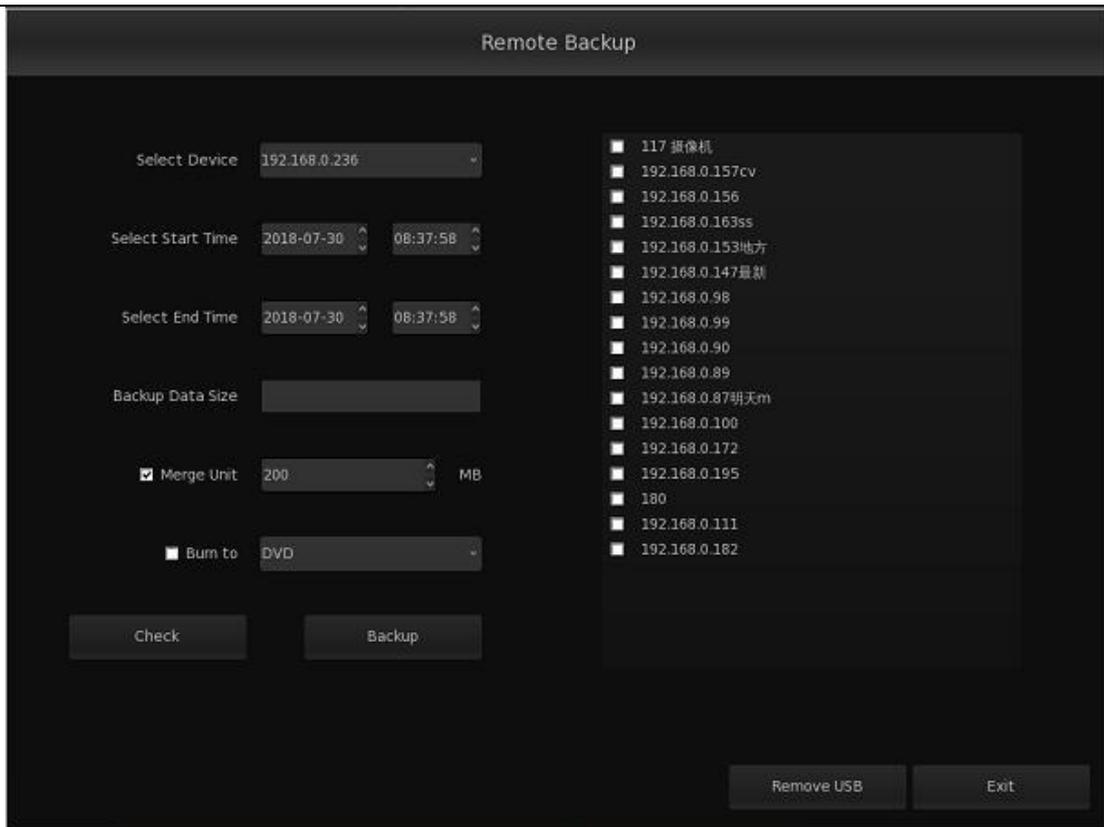
Before you enter Backup interface, please make sure you have plugged in the USB stick with enough free space.

【Select Device】 Select a backup device and then check the checkbox to select camera(s).

【Select Start Time】 【Select End Time】 Select the beginning time and end time of the video to be backed up.

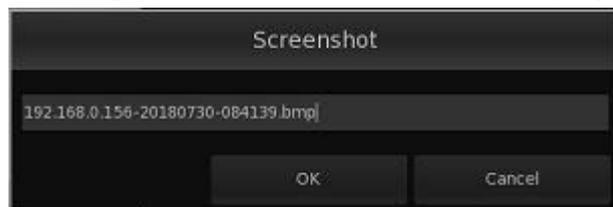
【Backup Data Size】 Show the file size info(MB). Please click Check button to update file size after you modify any camera or any backup time.

【Merge Unite】 Set the size for each file to be backed up. You can set it to be 200M to 999M.



4.3 Capture Picture and View

Press  to grab a picture, when a picture is grabbed, there will be a dialog pop up to ask for a file name. The size of the image is resolution of the video be played.



Click on the button  to enter the window of Picture View, as shown below. If you want to download or copy captured image, please use a USB stick.

 -- Select the channel which you want to view the grabbed picture in the drop list. Then all grabbed images of selected channel will be listed on the left side. You can double click the image name to display it on the right side.

 -- Click this button to uninstall your flash disk.

 -- Click this button to copy all the pictures in the list to the flash disk.

 -- Click this button to copy the selected pictures to the flash disk.

Delete All

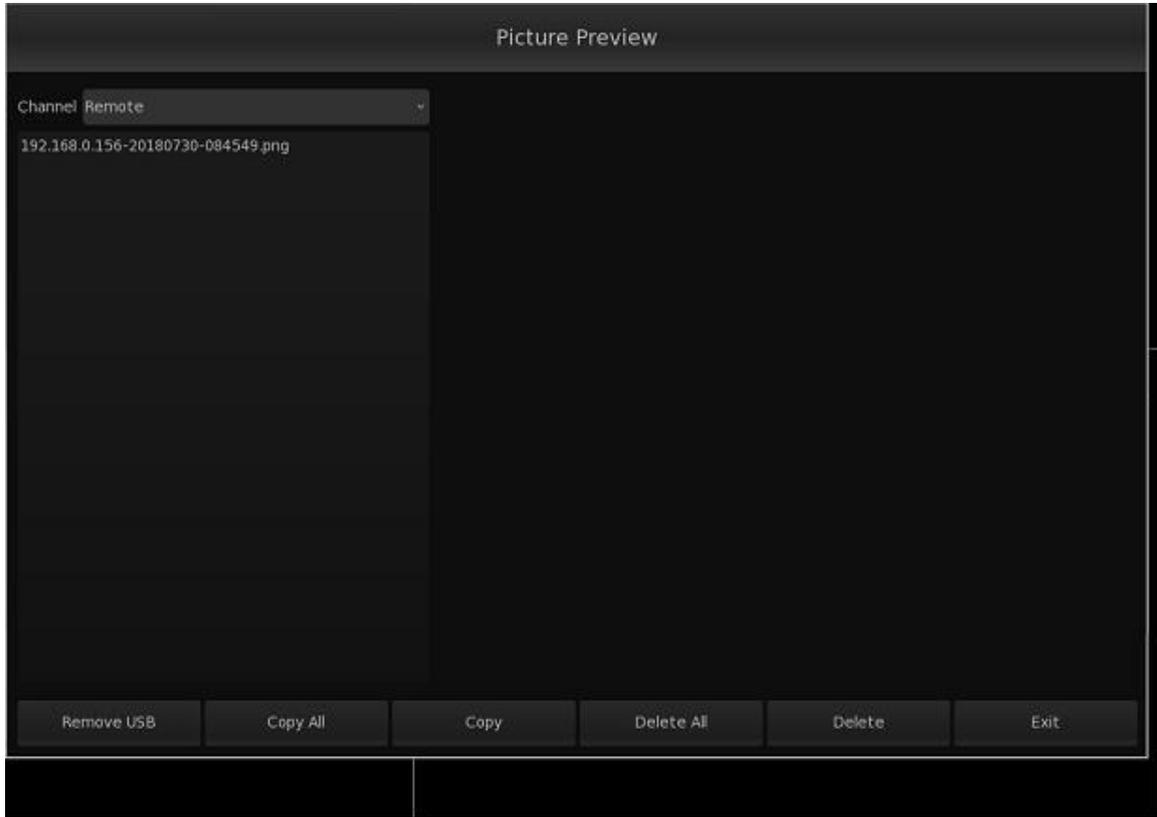
-- Click this button to delete all pictures in the list.

Delete

-- Click this button to delete the selected pictures.

Exit

-- Click this button to exit the Picture View.



Chapter5 Channel Setting

The Channel Setting includes 7 sections: ① Display Setting, ② Video Setting, ③ Motion Detection, ④ Privacy Mask, ⑤ Alarm Input Setting, ⑥ PTZ Setting and ⑦ Linkage Setting.

For your attention:

Not all models of IP camera fully support the configuration in this section due to the firmware version of IP camera might mismatch the software version of system. If you get warning message “Device can’t support this function” or the settings you have saved still don’t take effect, please run a web client to log in the camera to configure parameters.

5.1 Display Setting

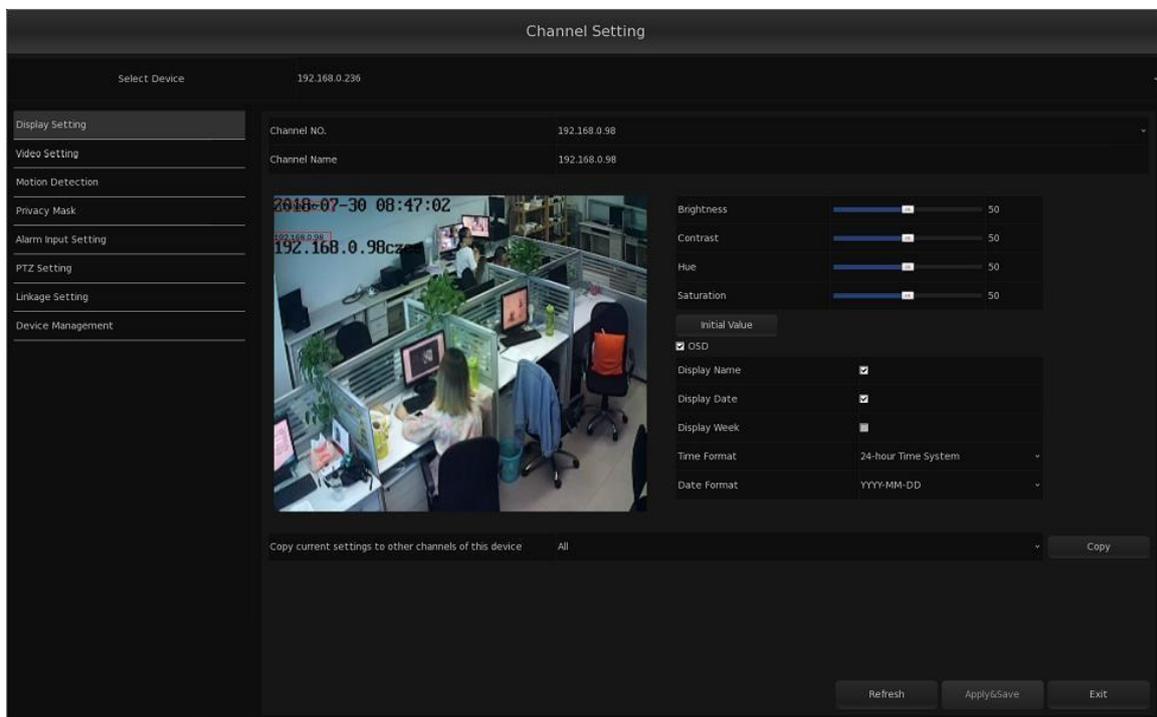
In this interface, you can configure IP camera’s image parameters and OSD info, please follow the screen to do settings.

For your attention:

1). If the selected device is an IP device, please select a IP camera from Channel NO. and then do settings.

2) You can modify the channel name of IP camera in Channel Name bar.

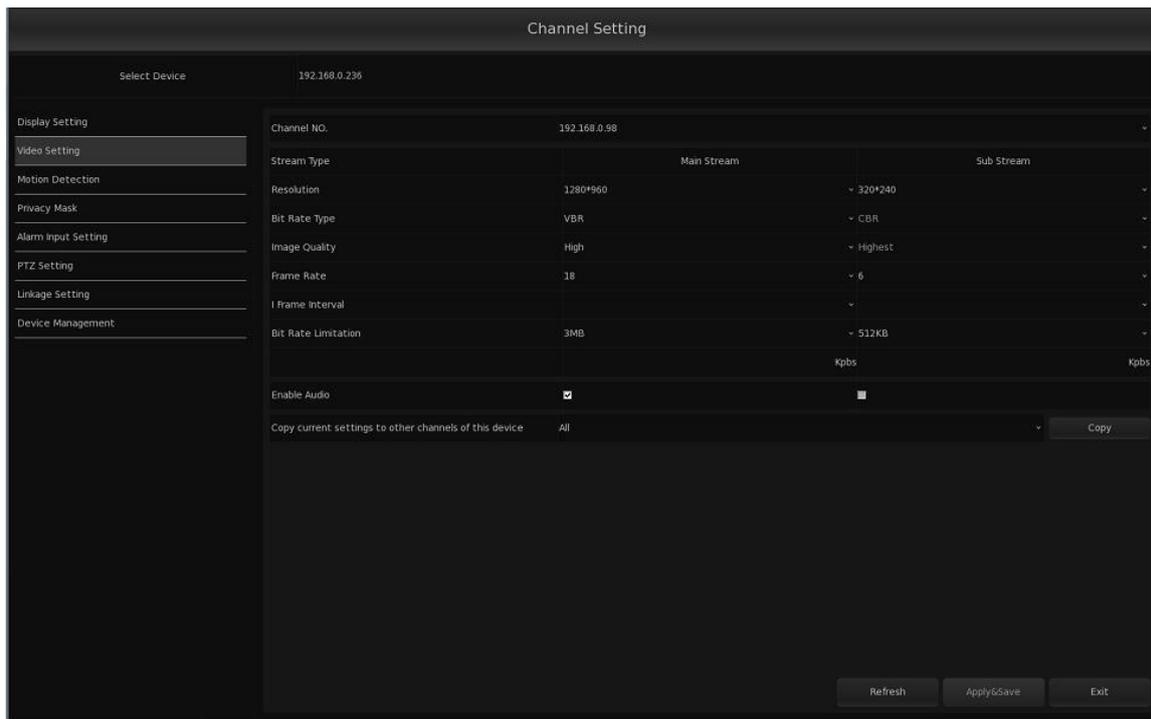
3) The channel name of DVR/NVR can’t be modified here. You can modify it in Device Management.



5.2 Video Setting

Please refer to camera specifications and local network bandwidth to configure the Video

Setting.



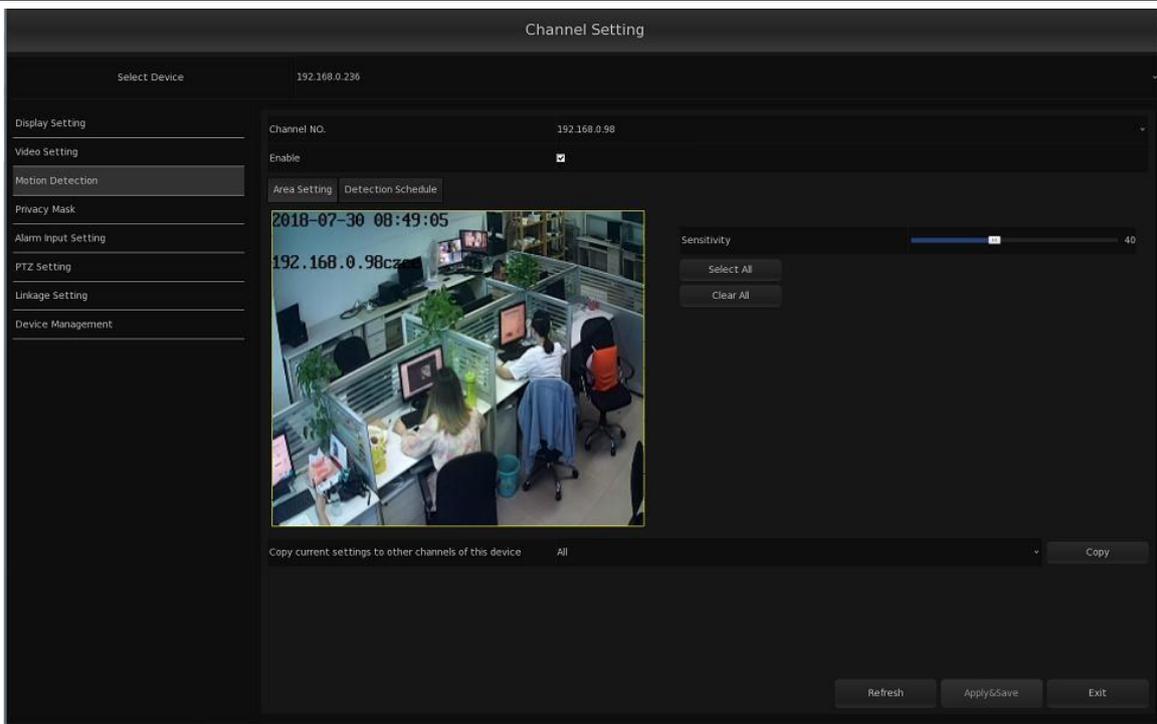
5.3 Motion Detection

Check the checkbox in front of Enable to enable the motion detection function, then you can set the detection area and schedule.

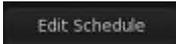
5.3.1 Area Setting

Hold down the left mouse button and draw a rectangular zone or multiple zones on the image to set detection area. You can also set the whole area by pressing **Select All** button, or clear the area(s) you set by pressing **Clear All** button.

Move the slider to adjust sensitivity, from left to right is low to high. For some models of IP camera, motion detection can only be set in IE web client.

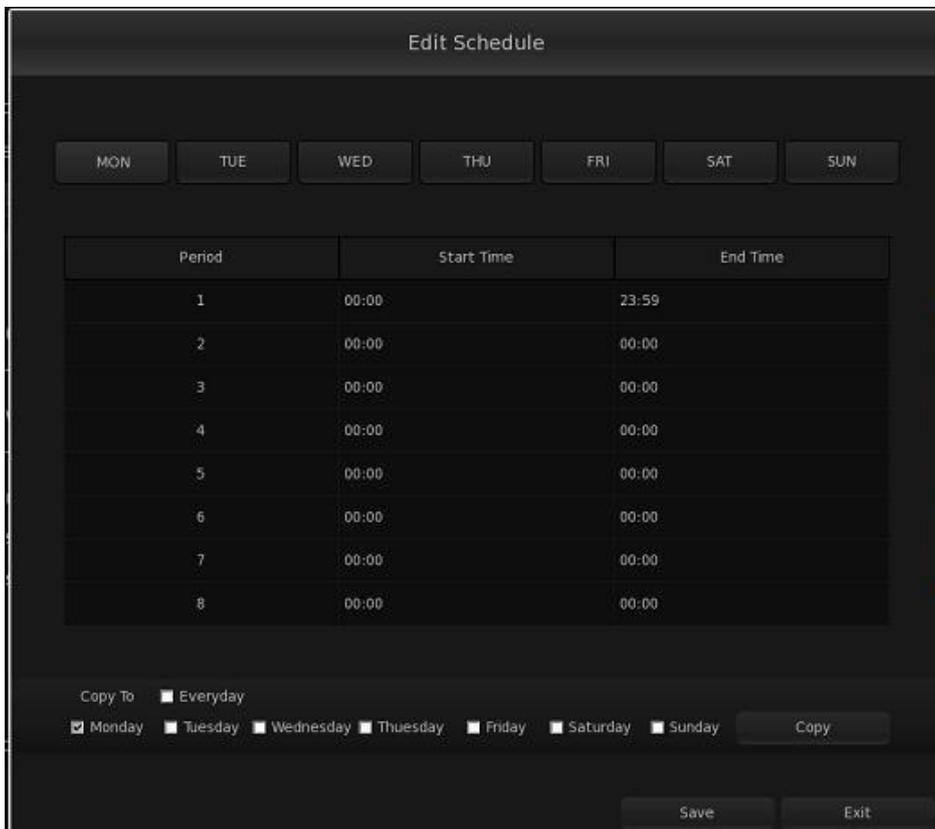


5.3.2 Detection Schedule

Press the button  to bring up “Edit Schedule” sub-window to setup motion detection working time table, as shown below.

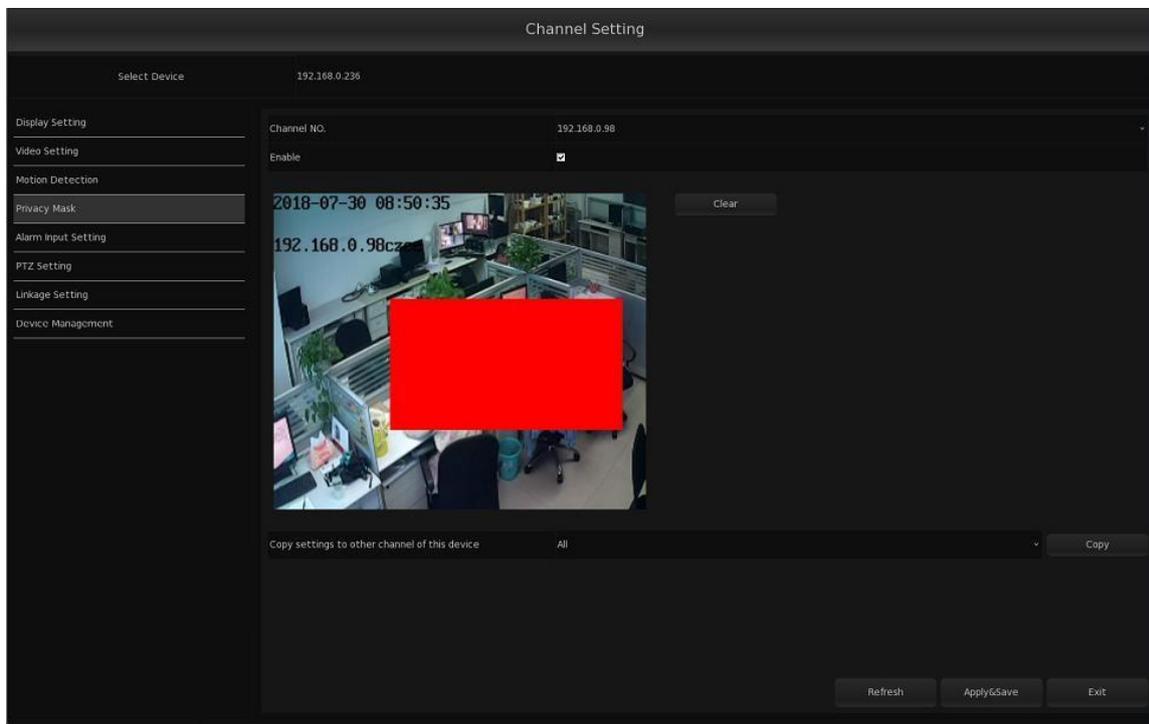
Tips:

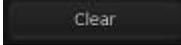
Each time segment should not be overlapped.



5.4 Privacy Mask

Click the check box of Enable to enable the Privacy Mask function. Users are allowed to setup several four-sided privacy mask zones that cannot be viewed by the operator. The privacy mask can prevent certain surveillance areas to be viewed or recorded.



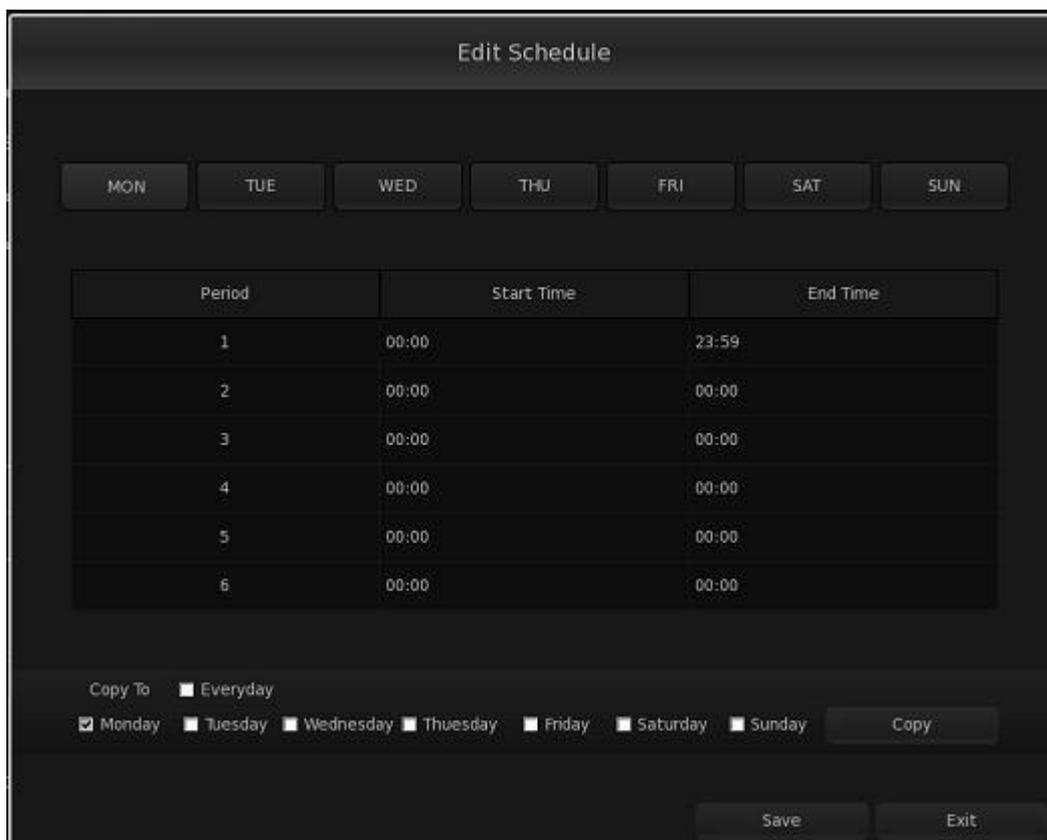
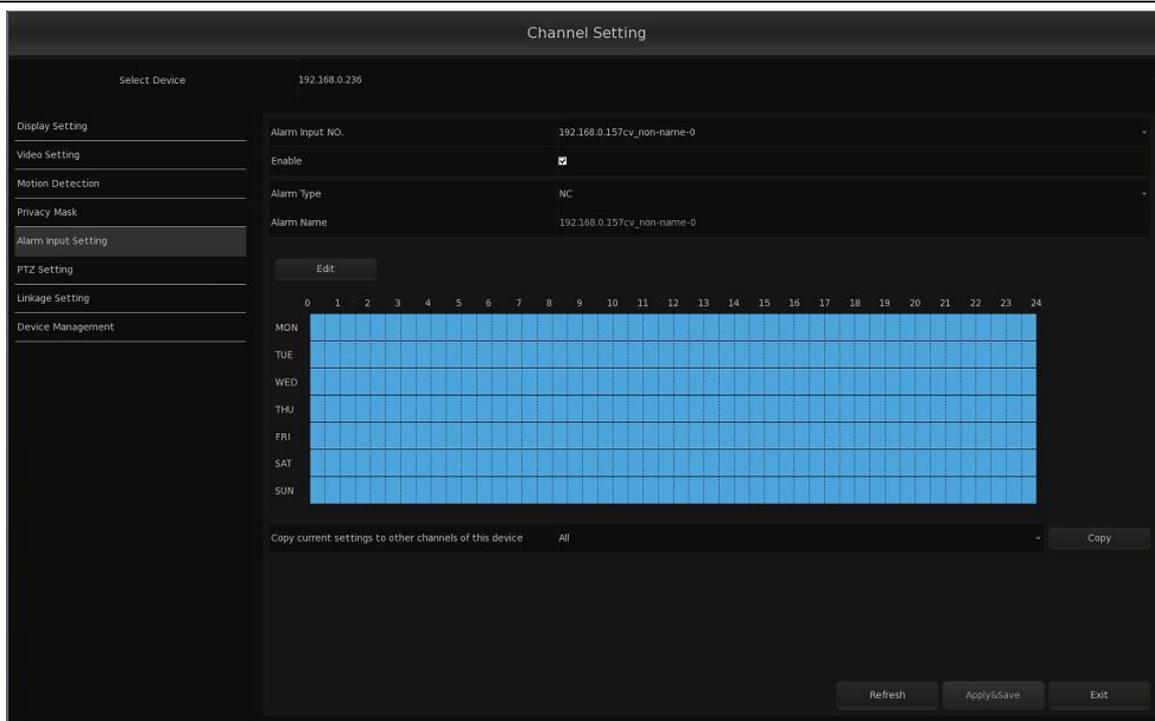
Operations: Hold down the left mouse button and drag a rectangular zone or multiple zones on the image you would like to hide. You can also clear the zone(s) by pressing  button.

5.5 Alarm Input Setting

The system will automatically detect the alarm in/out port for each IP device/IP camera. If alarm feature is not available for the selected device, a warning message "Device cannot support this function!" will pop up. The alarm type means sensor type, NC=Normal Close, NO=Normal Open. After choosing correct sensor type, please click on button "Edit" to set the sensor working time table, see picture below.

Tips:

The time of each period should not be overlapped.



5.6 PTZ Setting

Before you configure the PTZ setting, please make sure that the PTZ camera can be controlled in the Control Panel of main interface. If not (for some cameras), maybe you should log into the PTZ camera by IE web client to configure correct protocol and baud rate.

The PTZ preset saves in 2 modes Call Preset and Save Preset. Only those presets saved in

Call Preset mode can be executed call. The Save Preset mode is used for special purpose such as to implement PTZ system reserved feature.

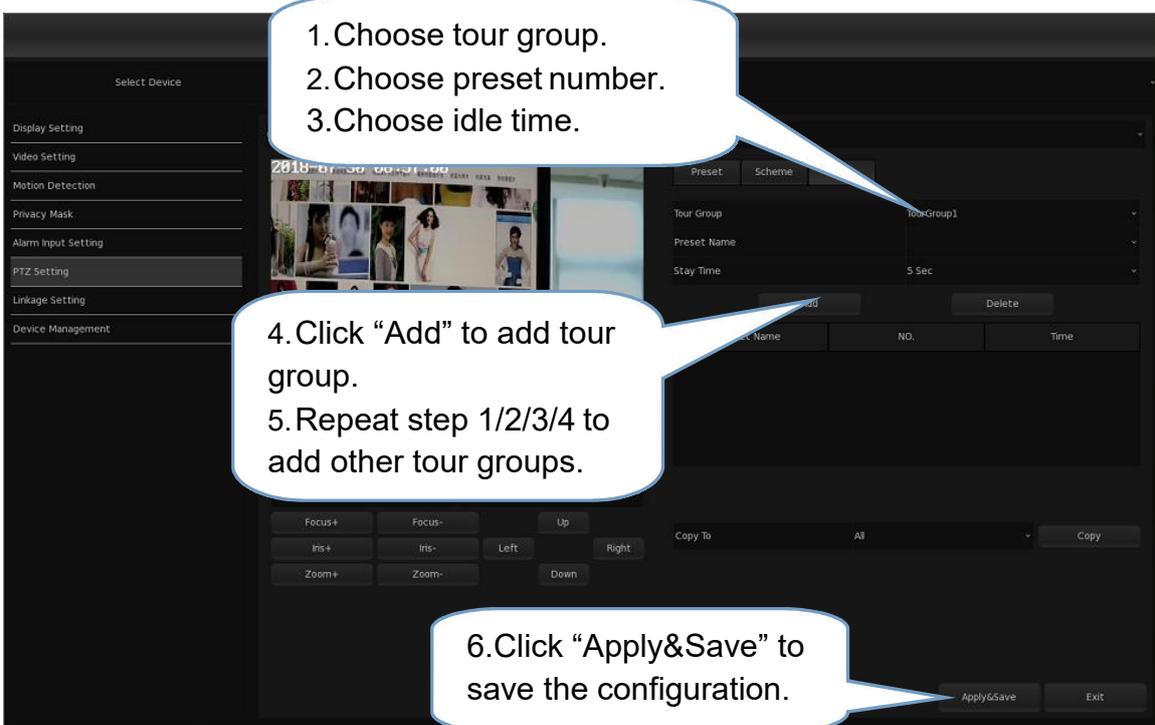
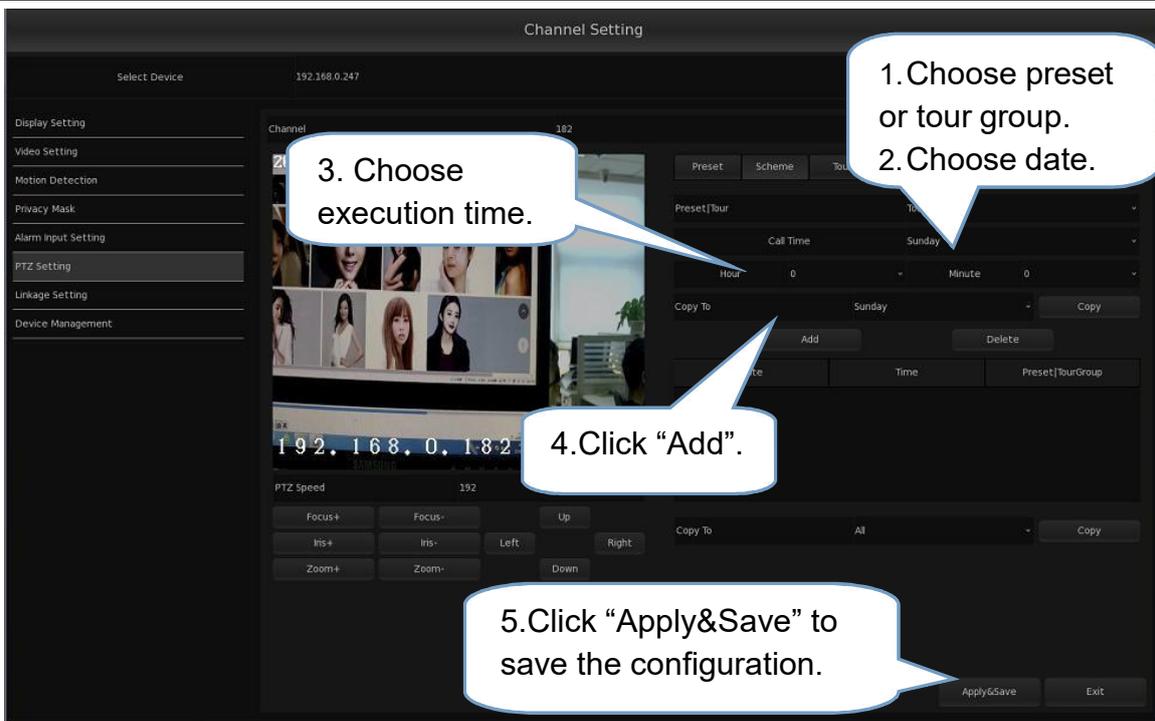
Scheme:

The Scheme means system will automatically call the preset or a tour group according to a scheduled time table. When the system time reach, the PTZ camera will auto move to preset position or run a preset tour. If you want add a tour into a scheme, please setup tour at first.

Tour:

Tour means you can put different preset position in a sequential group, each preset position could be defined a staying time. When a tour is running, the PTZ camera will continuously move between preset positions according to the sequence and time table saved in the group. You can save up to 8 tour groups.

The screenshot shows a PTZ camera configuration interface. On the left is a sidebar menu with options: Display Setting, Video Setting, Motion Detection, Privacy Mask, Alarm Input Setting, PTZ Setting (highlighted), Linkage Setting, and Device Management. The main area is divided into a video preview window and a control panel. The video preview shows a desk with a computer and a chair, with a timestamp '2018-07-30 08:52:16' and IP address '192.168.0.98cz'. Below the video is a PTZ Speed slider set to 192 and a control panel with buttons for Focus+, Focus-, Up, Left, Right, Down, Zoom+, and Zoom-. To the right of the video is a form for adding a preset. It has tabs for 'Preset', 'Scheme', and 'Tour'. The 'Preset' tab is active, showing fields for 'Preset Name', 'Preset NO.', and 'Mode'. Below these fields are buttons for 'Add', 'Modify', 'Delete', and 'Call'. At the bottom right of the interface are buttons for 'Apply&Save' and 'Exit'. Five callout boxes provide instructions: 1. Set PTZ speed. 2. Set preset's position and zoom/focus/iris to move the camera to aim position. 3. Set preset name, number and mode. 4. Click "Add" to finish one preset. Repeat step 2/3/4 to add more presets. 5. Click "Apply&Save" to save the configuration.



5.7 Linkage Setup

Linkage Setting is used for alarm-out feature configuration. Through alarm linkage setting, every camera's alarm signal could be used to trigger multiple alarm-out ports and multiple PTZ cameras to call preset.

5.7.1 Motion Alarm

【Select Device】 / 【Channel NO.】 If the Select Device is a DVR/NVR/DVS(IP Server), the channel NO would be selectable from drop-down list. If the Select Device is a IP camera, the

Channel NO would be equaled to the selected device.

【Enable】 Check on to enable the motion alarm linkage function for this camera.

【Policy】 Three handle policies will be available to correspond the alarm as follows:

【Audio Warning】 Indicate the alarm with sound;

【Send Email】 Send an email alert when the alarm is triggered

【Output Log】 Write system log.

Note:

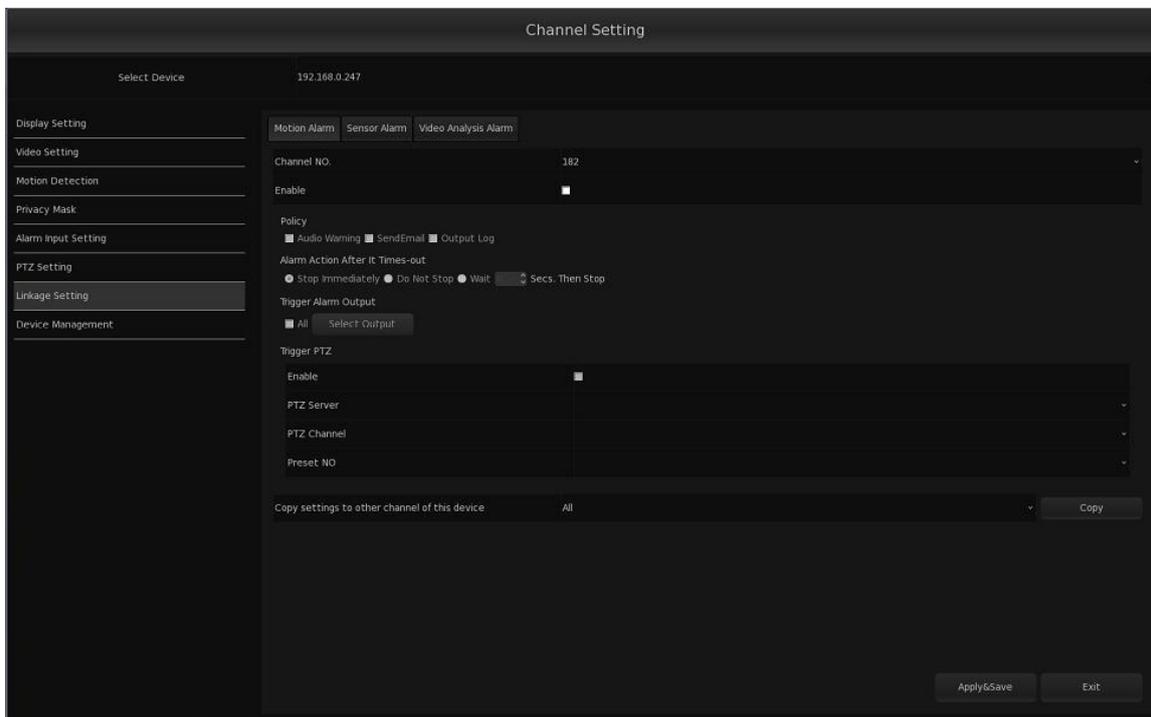
It won't output motion alarm log in log panel until you check "Output Log" as well as checking the corresponding channels in "**System setting—Log Color Setting—Alarm Information**".

【Trigger Alarm Output】 Choose which alarm-out port(s) to be triggered by above camera.

【Trigger PTZ】 You can enable this function to trigger a PTZ camera to call a special preset when there is alarm input.

【PTZ Server】 / 【PTZ Channel】 If the **PTZ Server** is a DVR/NVR/DVS(IP Server), the **PTZ Channel** would be selectable from dropdown list. If the **PTZ Server** is a IP camera, the **PTZ Channel** would be equaled to the selected device.

【Preset NO.】 Select the aim preset of the PTZ channel you selected.



Alarm Out Setting		
Server Name	Alarm Out Name	Alarm Out Linkage
Local	ALM_OUT_RLY1	<input checked="" type="checkbox"/>
	ALM_OUT_RLY2	<input checked="" type="checkbox"/>
	182_non-name-0	<input checked="" type="checkbox"/>
	192.168.0.171_non-name-0	<input checked="" type="checkbox"/>
192.168.0.247	192.168.0.172_non-name-0	<input checked="" type="checkbox"/>
	192.168.0.172_non-name-1	<input checked="" type="checkbox"/>
	192.168.0.170_non-name-0	<input checked="" type="checkbox"/>
	192.168.0.163_non-name-0	<input checked="" type="checkbox"/>
	192.168.0.184_non-name-0	<input checked="" type="checkbox"/>
	192.168.0.133_non-name-0	<input checked="" type="checkbox"/>
	192.168.0.157cv_non-name-0	<input checked="" type="checkbox"/>
	192.168.0.157cv_non-name-1	<input checked="" type="checkbox"/>
	192.168.0.157cv_non-name-2	<input checked="" type="checkbox"/>
	192.168.0.156_non-name-0	<input checked="" type="checkbox"/>
	192.168.0.163ss_non-name-0	<input checked="" type="checkbox"/>

5.7.2 Sensor Alarm

In the Sensor Alarm interface, the configuration steps is similar to above Motion Alarm configuration except one more choice--**Trigger Record Camera** It means you can select camera(s) to record when alarm is triggered.

The screenshot shows the 'Channel Setting' window for a device at IP 192.168.0.247. The 'Sensor Alarm' tab is selected. The configuration includes:

- Alarm Input NO.:** 182_non-name-0
- Enable:**
- Policy:** Audio Warning SendEmail Output Log
- Alarm Action After it Times-out:** Stop Immediately Do Not Stop Wait 0 Secs. Then Stop
- Trigger Alarm Output:** All
- Trigger Record Camera:** All
- Trigger PTZ:** Enable
- PTZ Server:** [Dropdown]
- PTZ Channel:** [Dropdown]
- Preset NO.:** [Dropdown]
- Copy settings to other channel of this device:** All

Buttons at the bottom include 'Apply&Save' and 'Exit'.

Record Channel Linkage Setting		
Server Name	Channel Name	Trigger Record
192.168.0.247	182	<input checked="" type="checkbox"/>
	192.168.0.171	<input checked="" type="checkbox"/>
	192.168.0.136	<input checked="" type="checkbox"/>
	192.168.0.180	<input checked="" type="checkbox"/>
	192.168.0.173	<input checked="" type="checkbox"/>
	192.168.0.172	<input checked="" type="checkbox"/>
	192.168.0.202	<input checked="" type="checkbox"/>
	192.168.0.200	<input checked="" type="checkbox"/>
	192.168.0.170	<input checked="" type="checkbox"/>
	192.168.0.204	<input checked="" type="checkbox"/>
	192.168.0.199	<input checked="" type="checkbox"/>
	192.168.0.163	<input checked="" type="checkbox"/>
	192.168.0.184	<input checked="" type="checkbox"/>
	192.168.0.133	<input checked="" type="checkbox"/>
	117 摄像机	<input checked="" type="checkbox"/>

5.7.3 Video Analysis Alarm

Before you implement this function, please make sure that the Video Analysis Function is working. The operation in this tag is similar to Motion Alarm tag, please refer to above Motion Alarm setting.

Channel Setting

Select Device
192.168.0.247

- Display Setting
- Video Setting
- Motion Detection
- Privacy Mask
- Alarm Input Setting
- PTZ Setting
- Linkage Setting
- Device Management

Motion Alarm
Sensor Alarm
Video Analysis Alarm

Channel NO. 182

Enable

Policy
 Audio Warning SendEmail Output Log

Alarm Action After It Times-out
 Stop Immediately Do Not Stop Wait Secs. Then Stop

Trigger Alarm Output
 All

Trigger PTZ
 Enable

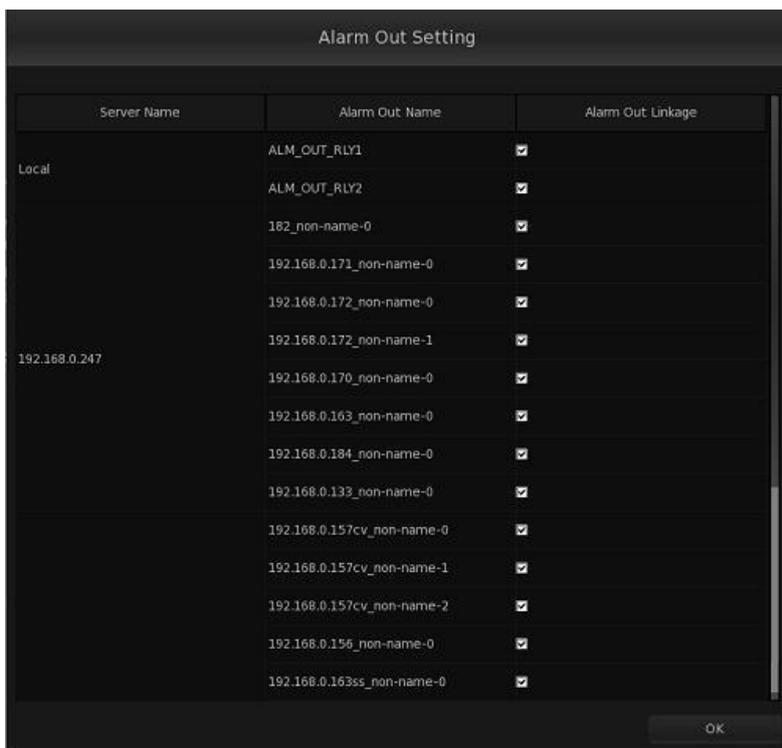
PTZ Server ▼

PTZ Channel ▼

Preset NO ▼

Copy the current settings to other channel of this device All Copy

Apply&Save
Exit

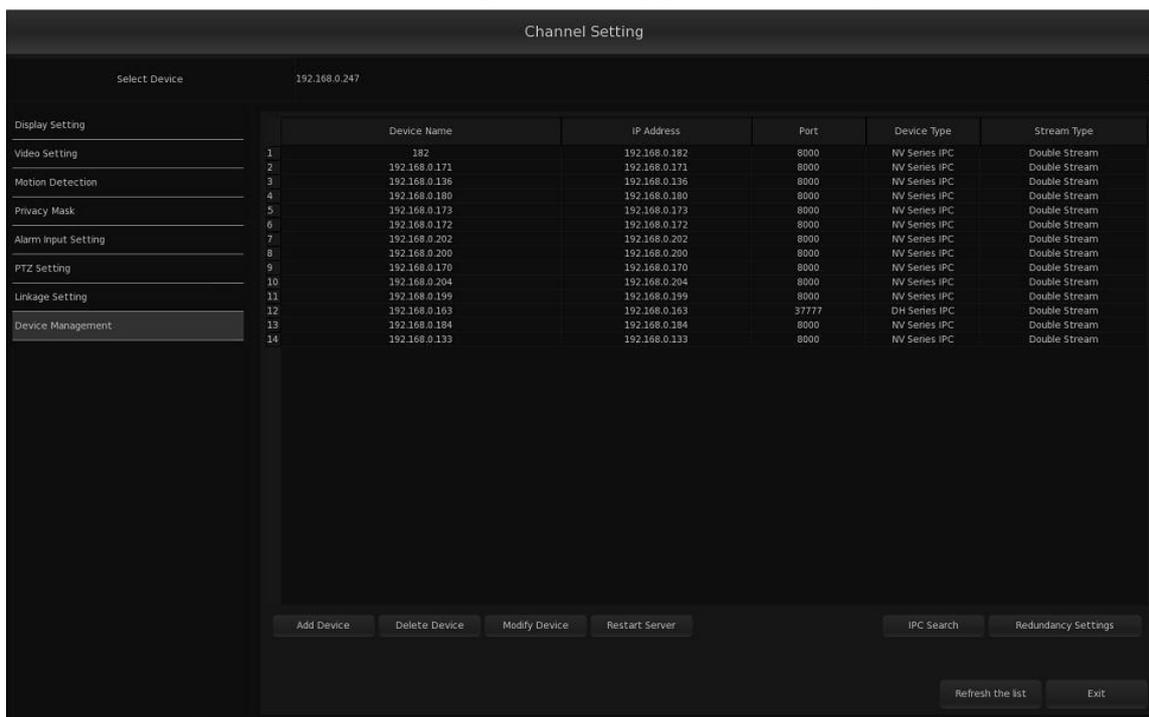


5.8 Device Management

Standing at the user's point of view, to make it easy to manage the devices on the servers, this function can help users add, delete and modify the IP device of server software. It has similar interface and operations like Device Management function in the main interface, please refer to section 2.1.

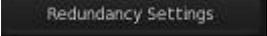
Tips:

Please restart the server after deleting IP device(s) to avoid unexpected error!

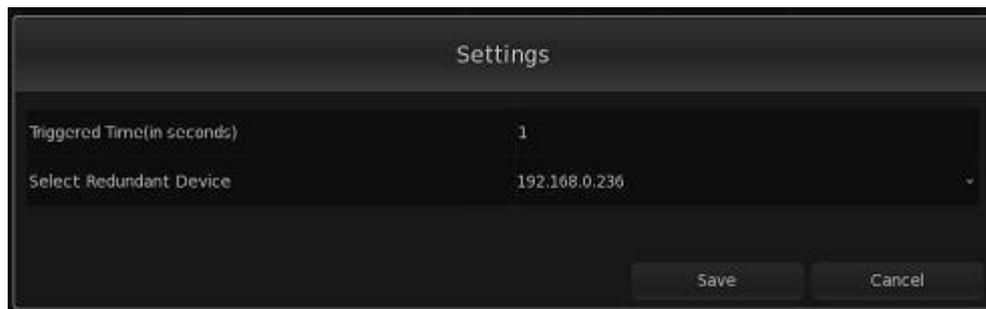


5.8.1 Redundancy Settings

The Redundancy function can help to increase the reliability of the system when the system fails,including power failure,network failure and other reasons.

Click the button  to select redundant device(called device2 here) and triggered time for current device(device 1) you selected for Channel Setting.When device1 is disconnected over the triggered time from management server ,then its device list will be copied to device2 to continue the work.

After device1 is back to normal work and connected to the management server successfully,the cameras copied to device2 will be deleted automatically,and the software of device2 will be killed and then restart.



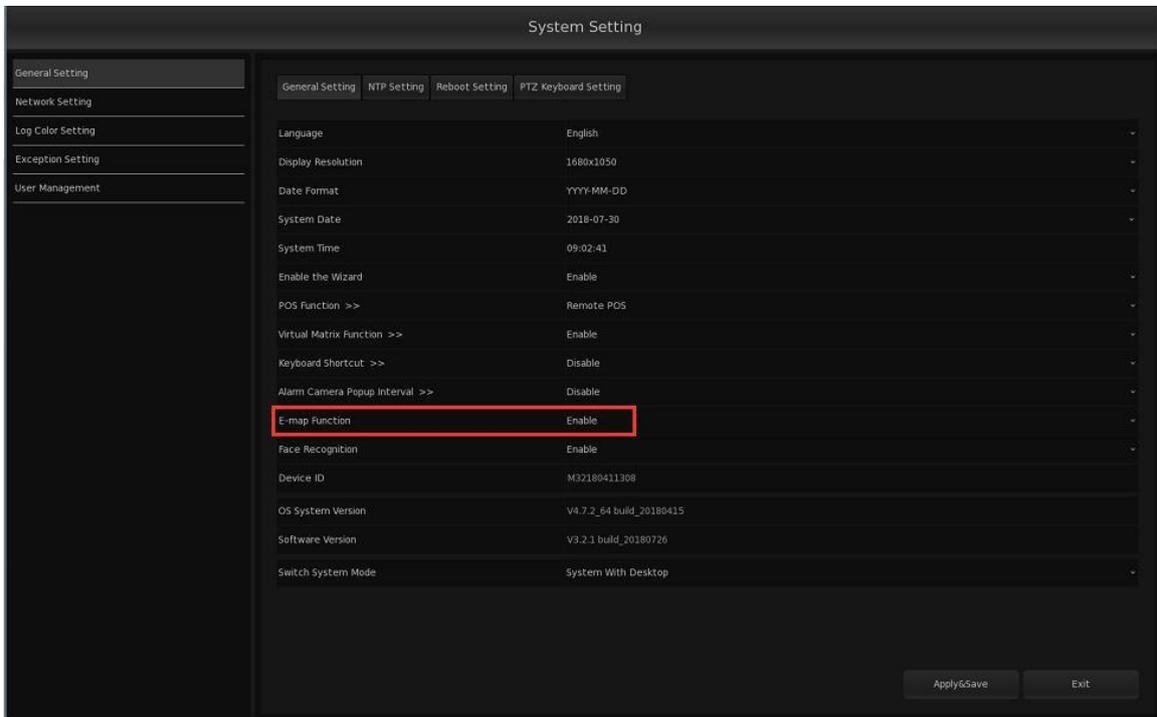
Tips:

- 1.Before Redundancy Settings,please add two systems at least to the managementserver.
- 2.The selected redundant device can't be selected repeatedly.

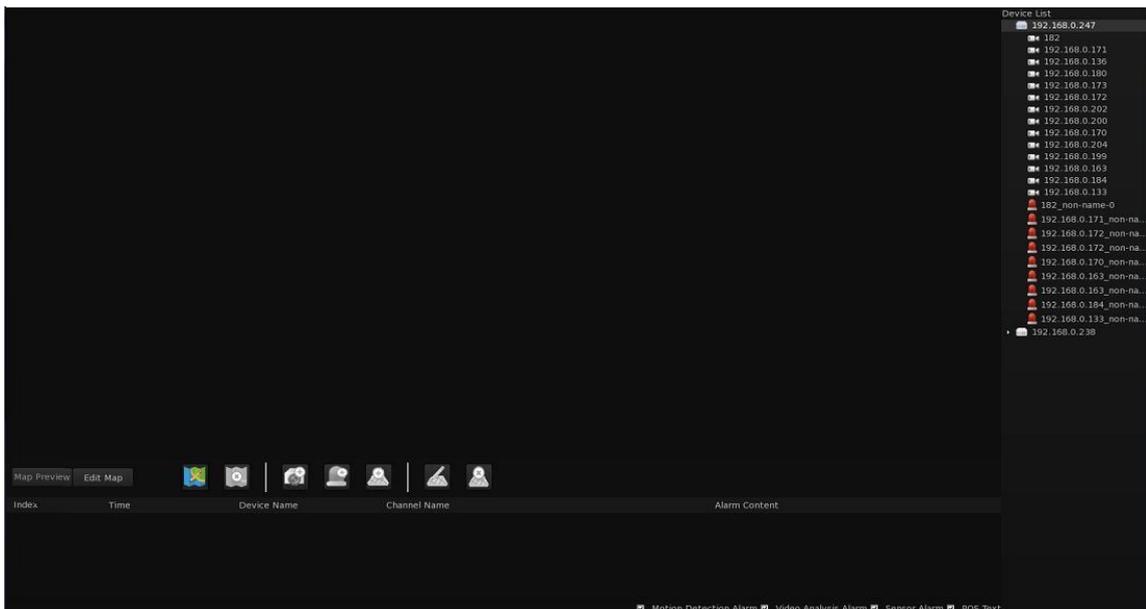
Chapter6 The E-map Function

The E-map function offers users a platform to get a visual overview of the locations and distributions of the installed cameras and alarm input devices. You can get the live view of the cameras on the map, and you will get notification messages from the map when alarm is triggered.

The first step is to enable E-map Function in System Setting.



Secondly, Click the icon  on the Toolbar Panel to enter the E-map interface, see picture blow.



6.1 Add an E-map

For your first time to open E-map function, please add corresponding maps for each device in the **Device List**.

Steps:

1. Choose one device from **Device List** for which you want to add a map;
2. In the mode of **Edit Map** by default, Click the icon  to open E-map info dialog box;
3. Click the button  to select a map file from the local path;
4. Click “OK” to finish the map adding.

Tips:

1. The picture format of the map can only be *.jpg, *.png, *.bmp;
2. Only one map can be added to a device.

After finishing the map adding, the map added will be displayed in the map display area. Scroll the mouse wheel to zoom in/out the map, or click-and-drag the yellow window in the lower-right corner to adjust the map area for view.

Click the button “Edit Map” or “Map Preview” in the E-map toolbar to enter the map editing mode or map preview mode.



---Add a map the first time you open E-map function, or replace added map.



---Delete the current map.



---Add a camera or cameras in batches as the hot spot(s) on the map (or you can click-and-drag the camera from **Device List** to current map directly).



---Add an alarm input sensor as the hot spot on the map (or you can click-and-drag the alarm input sensor from **Device List** to current map directly).



---Add a map as the hot region on the current map.



---Modify the information of the selected hot spot or hot region



---Delete the selected hot spot or hot region.



---Clear the alarm information displayed on the map



---Go back to the parent map.

6.2 The Hot Spot Function

The cameras and alarm inputs can be added on the map and are called the hot spots. You can get the live view by double clicking the camera on the map and check alarm information of the

surveillance area through these hot spots.

6.2.1 Add Hot Spots

There are two methods to add cameras as hot spots:

The steps of method 1:

1. Under the mode of map editing,click the icon  in the E-map toolbar to enter Add Hot Spot dialog box;
2. Check the checkbox to select cameras to be added.
3. Besides,you can double-click the corresponding box to select the name color.
4. Click “OK” to save the settings.The icons of added cameras changed from  to  in the device list.You can click-and-drag cameras icons to move the hot spots to the desired locations.

The steps of method 2:

Click-and-drag the camera icons one by one from the device list to the map directly to add the hot spots.

6.2.2 Modify Hot Spot

In the mode of map editing,there are three ways to modify the information of added hot spots,including changing current hot spot or selecting color: ①you can double-click the camera icons on the map ;②click the icon  in the toolbar panel;③select the hot spot and right-click it,then select  .

6.2.3 Delete Hot Spot

In the mode of map editing,click the icon  in the toolbar panel or right-click the hot spot and then select  to delete the hot spot.

6.2.4 Hot Spot Preview

Steps:

1. Click the button  to enter the mode of map preview;
2. Double-click the icon  on the map or right-click it and select  to get the live view of cameras;
3. If you have set the alarm linkage action for camera hot spots,The icon  will appear and twinkle near the hot spot when there is alarm triggered,click the alarm icon to bring up the alarm type.

6.3 The Hot Region Function

In the E-map function, when you add one map (here called map1) to another map (called map2), the map1 as a hot region on the map2 is called child map and the map2 is the parent map.
 Note: A map can only be added as the hot region for one time.

6.3.1 Add Hot Regions

First, please make sure that there are two maps added at least in the device list.

1. Click the button "Edit Map" to enter map editing mode.

2. select a device, and its map is the parent map

3. click it to add a child map

Index	Time	Device Name	Channel Name	Alarm Content
28	2018/07/30 09:16:08	192.168.0.247	192.168.0.184	Motion Detection Alarm Start
27	2018/07/30 09:16:00	192.168.0.247	192.168.0.180	Motion Detection Alarm Start
26	2018/07/30 09:15:40	192.168.0.247	192.168.0.180	Motion Detection Alarm Stop
25	2018/07/30 09:15:26	192.168.0.247	192.168.0.184	Motion Detection Alarm Stop
24	2018/07/30 09:15:23	192.168.0.247	192.168.0.180	Motion Detection Alarm Start

6.3.2 Modify Hot Regions

1. Click the button "Edit Map" to enter map editing mode.

2. Double click the hot region to bring up the interface of Modify Hot Region

3. Single click a hot region and then click this icon to open Modify Hot Region dialog box; 4. You can select color and modify child map here.

Index	Time	Device Name	Channel Name	Alarm Content
3	2018/07/30 09:24:38	192.168.0.247	192.168.0.184	Motion Detection Alarm Start
2	2018/07/30 09:24:38	192.168.0.247	192.168.0.180	Motion Detection Alarm Start
1	2018/07/30 09:24:38	192.168.0.238	192.168.0.156	Motion Detection Alarm Start

6.3.3 Preview Hot Regions

1. Click the button "Map Preview" to enter map preview mode.

2. Click the hot region icon to go to the linked child map.

3. You can click the  to go back to the parent map after you entered the child map.

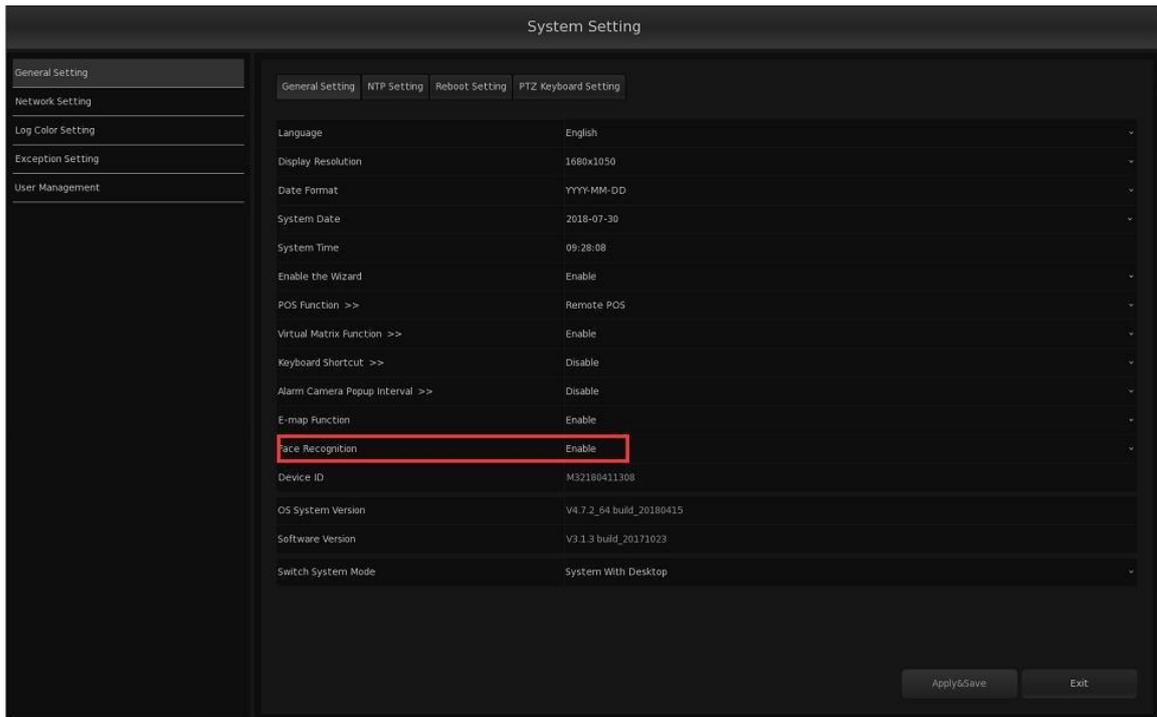
Index	Time	Device Name	Channel Name	Alarm Content
11	2018/07/30 09:27:10	192.168.0.247	192.168.0.180	Motion Detection Alarm Start
10	2018/07/30 09:27:08	192.168.0.247	192.168.0.180	Motion Detection Alarm Stop
9	2018/07/30 09:26:52	192.168.0.247	192.168.0.184	Motion Detection Alarm Start
8	2018/07/30 09:26:47	192.168.0.247	192.168.0.184	Motion Detection Alarm Stop
7	2018/07/30 09:26:45	192.168.0.247	192.168.0.180	Motion Detection Alarm Start

Chapter 7 Face Recognition

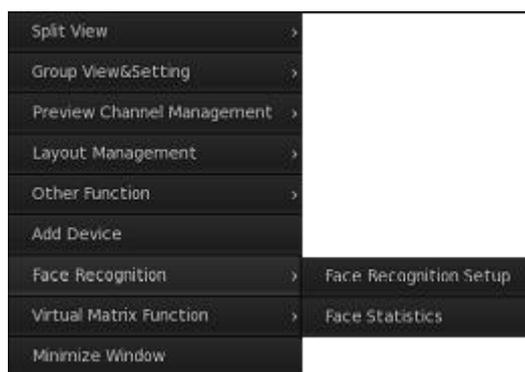
7.1 Face Recognition Setup

User can add / modify / delete face information in Black /White List of local machine and connected NVSS

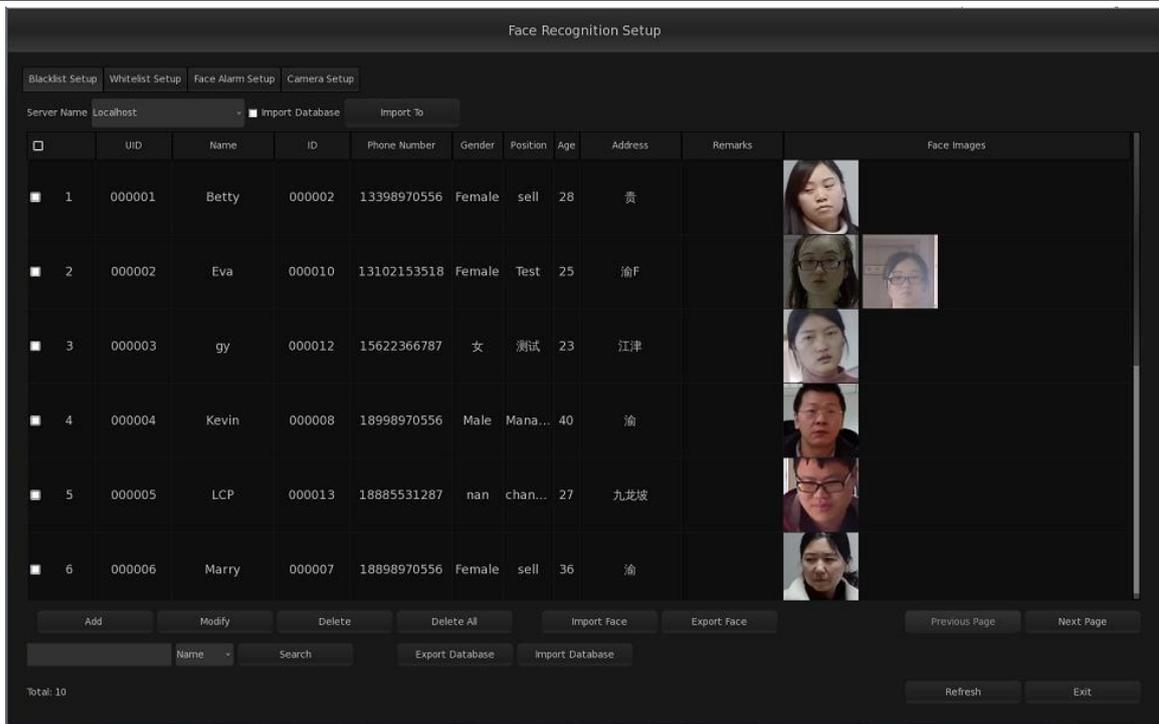
The first step is to enable Face Recognition in System Setting, it needs 16 license to enable this function.



Then right click mouse on the main interface, select Face recognition>Face recognition setup.



7.1.1 Black /white List Setup



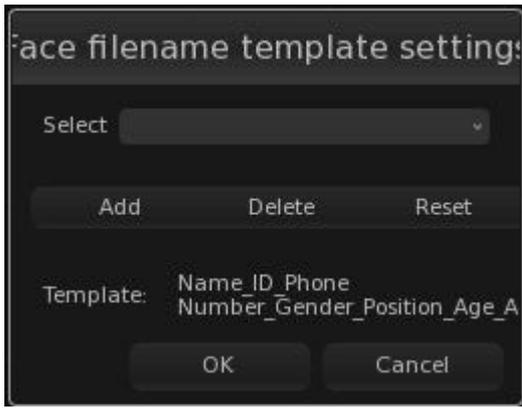
There are five ways to add faces into black / white list.

The first way is add face manually. User can click **Add** on the Black List Setup / White List Setup interface to add faces to database manually, user can select a picture from Desktop directory, Catchpic directory and USB. Desktop means the captured picture on desktop, Catchpic means all the captured picture in software.

If you want to detect a face on the picture of USB, insert USB to NVSS, then click **Open USB** to get the picture from USB. Double click a picture to show picture in the face detection zone, click **Face Detection** to detect the faces on this picture, detected faces will be list on the middle window, user must input name here **Name YDQ**, you can also input some other informations here **ID**, **Phone Number**, **Gender**, **Position**, **Age**,

then click **Add** to add this face to the right window **Images**, also you can click **Delete** to delete the face you have added on the right window, then click **Save** to save faces to black list, NVSS support to add multiple faces for a UID.

The second way is to add face automatically. Click **Import Face** to choose a format of pictures'



name here , name information will always be the first. There are ID, gender, age, position, phone number, address, remarks for user to combine randomly. Click **Add** to add a kind of information, click **Delete** to delete the information you just added. Click **Reset** to clear all information. This picture can be .png, .jpg, .bmp. then select a directory from NVSS or USB to add faces with all informations. It will input all information of corresponding face into face list according to pictures' name. there will pop up a information to let you know the importing has been finished , click **Export Face** to export face pictures to USB.

Notice:

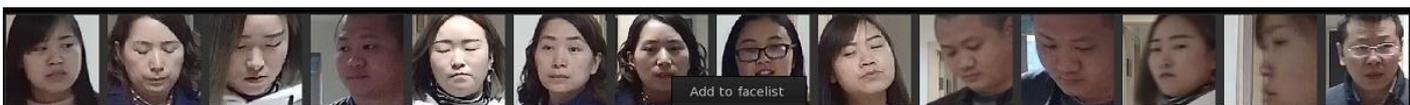
1. All the face pictures must be named with name information as first words, use ' _ ' between words when you try to import face pictures
2. Make sure the format of face picture's name is with same format you set on NVSS
3. Select some information you want when you export faces, will shield those words your don't want on the name of face pictures

The third way is to import face database file. When you want to build another new NVSS systems, you can insert a USB to old NVSS, then export face database file to USB by click **Export Database** , wait several minutes to make sure the file has been exported completely.

Insert USB to new NVSS system, then click **Import Database** , new NVSS will recognise face database file automatically and start to import, all the face information will be imported into new NVSS, it will restart after finished.

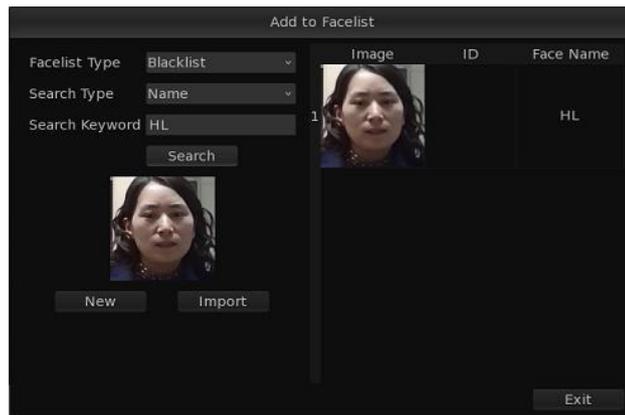
Notice: **Export Face** is used to export face pictures to USB, **Export Database** is used to export face database file which can only be used in NVSS to USB.

The fourth way is to add face from live view, right click on the captured face which is shown on the bottom of live view.

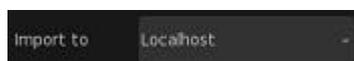
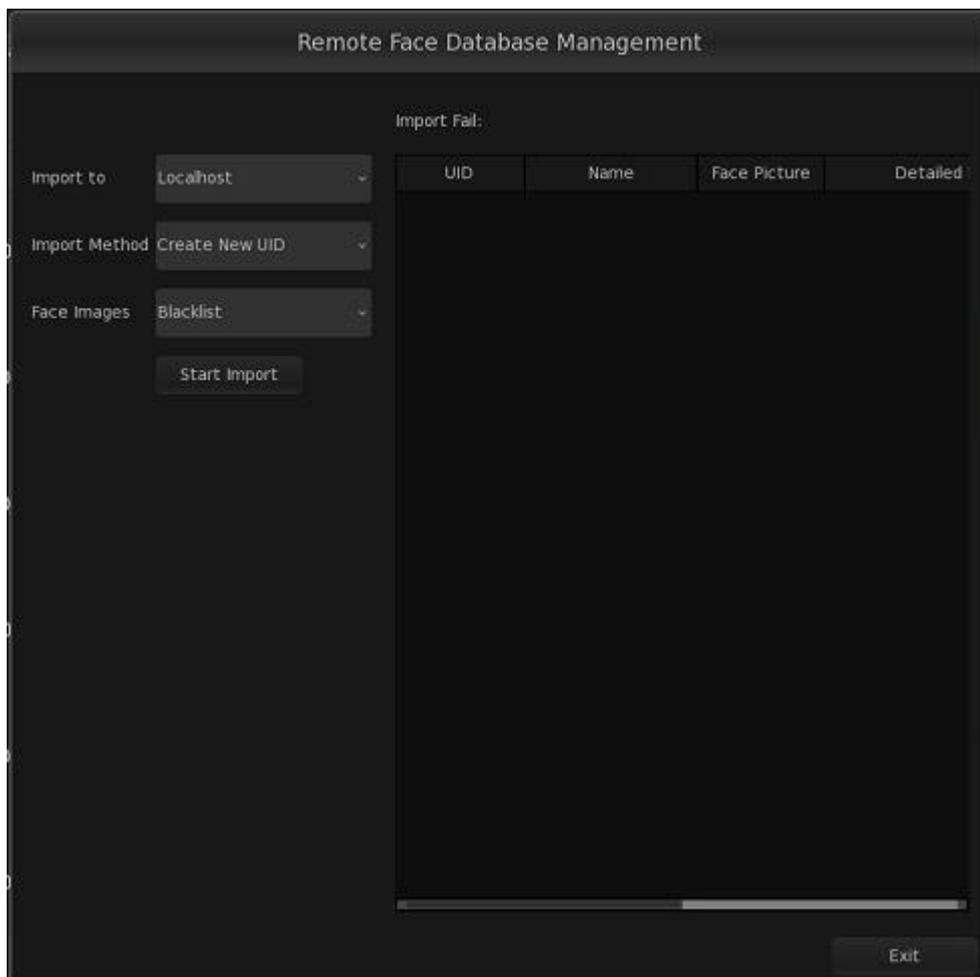


It will pop up a window to add current face to black / white list, input name or ID, then click **Search** , it will show a existing face information of black / white list, click **Import** to add this face to an exist person. Also User can click **New** to add a new face with new UID. Interface is as

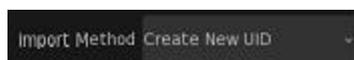
follows.



The fifth way is to import face pictures or face database from storage server. Firstly, select a storage server here , then select several face pictures, click , also user can select face database here , then click , it will show the interface as follows.

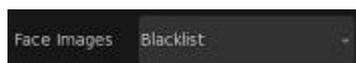


-- Import face pictures or face database to local machine



-- Creat new UID means adding face with new UID base on existing face

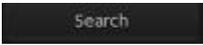
list, exported face picture will be a new face information. Merge by UID means that face pictures will be merged with the same UID face information in existing face list.

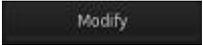


-- Import face pictures or face database to black / white list.

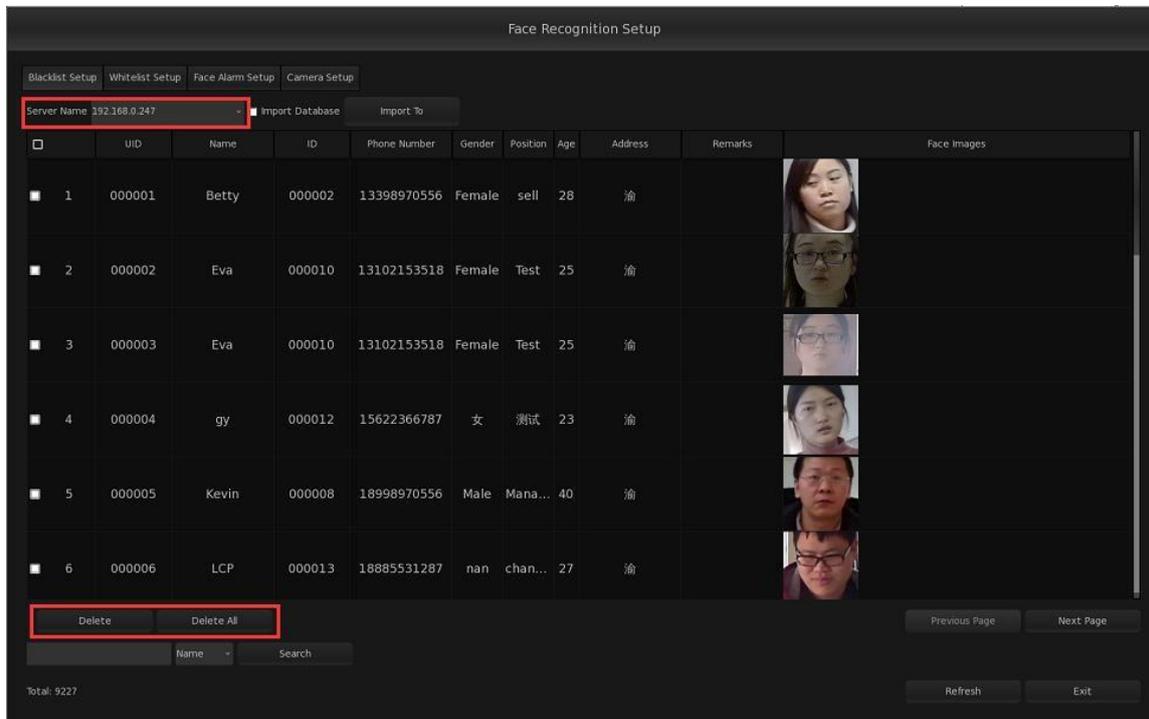
Finally, click  to start import, the one which is failed to import will be listed on the left window. Then go back to main interface of face list to click refresh .

Notice:

1. Face pictures or face database can be imported between NVMS and storage server, but can't be imported between storage server and storage server
2. If user choose several face pictures and select import face database at the same time, it will import face database.
3. If user doesn't input information here   in black / white list, then click , it will show the first page of black / white list

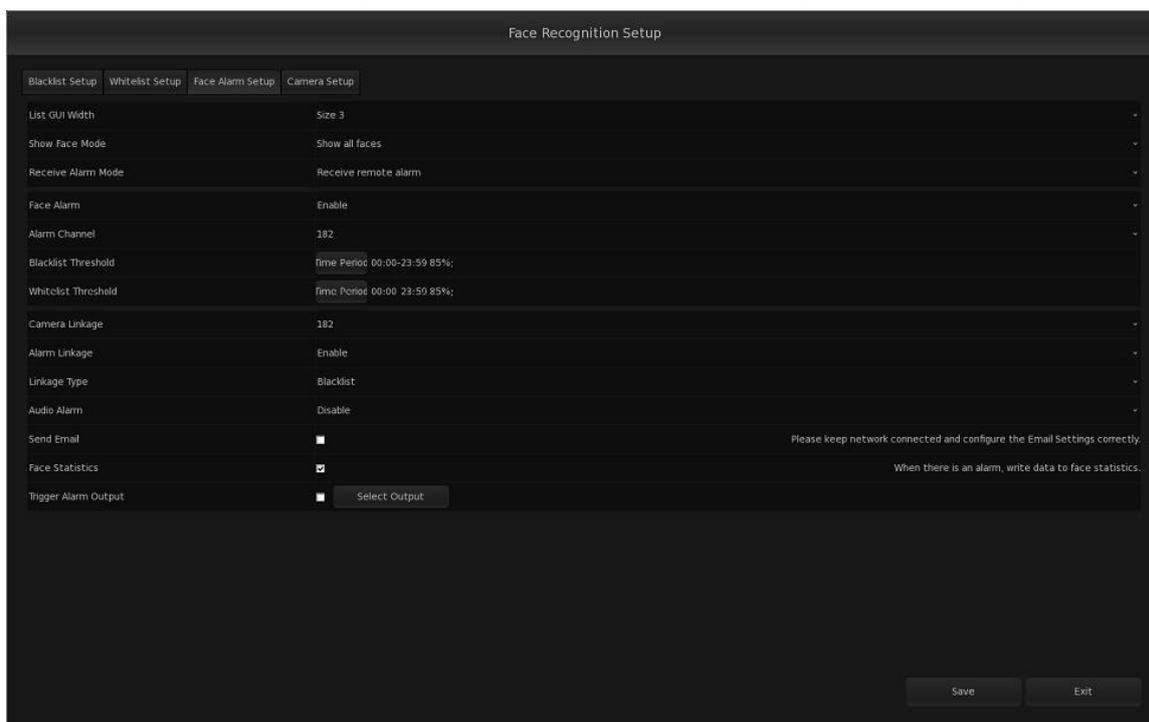
User can click  to modify all the information of a face except UID. Click Click

 to delete the information of a face, also you can click  to delete all the face informations of black list. Also NVMS supports to delete and import face pictures from storage server as the following picture.



7.1.2 Face Alarm Setup

It includes face picture setting, camera filter threshold setting, camera linkage alarm.



Face Picture Expand -- It is used to set the face picture, user can set it to be 20%, 30%, 40%, 50%, 60%. The percent is more higher, then the face picture will be shown with more background.

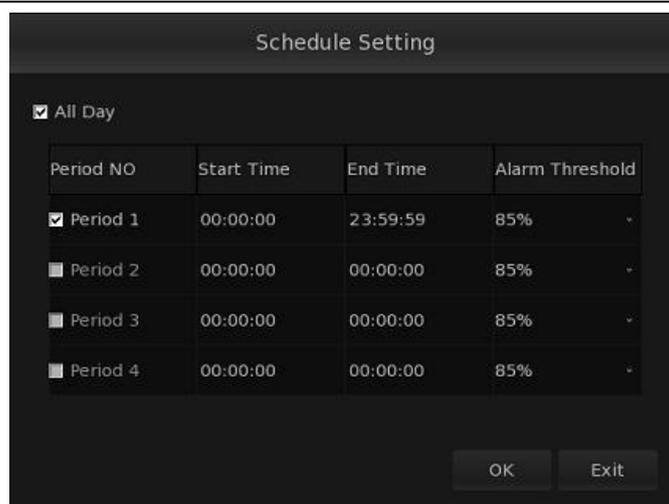
List GUI Width --It is used to define the width of alarm monitors, there are size 1, size 2, size 3, size 4, size 5. Size5 is the widest, size1 is the narrowest.

Alarm Filter Time -- If there is a person stay at the front of a face detection camera all the time, NVSS will alarm again after the time you set here. User can set from 5s to 60s. If the one disappear from the live view of cameras and back again in this period time, then it will still alarm.

Show Face Mode --Set the faces which is shown on live view, when you select 'show all faces', it will show all the captured faces. when you select 'only show stranger faces, then it would only show the faces didn't recognize by NVSS.

Blacklist Threshold --If captured face and black list face have a higher similarity than the one you set here, black list alarm monitor will show information of this face. Similarity of 85% is the one we suggest to set, click **Period** to set several period time with different threshold.

Whitelist Threshold --If captured face and black list face have a higher similarity than the one you set here, white list alarm monitor will show information of this face, Similarity of 85% is the one we suggest to set, click **Period** to set several period time with different threshold, it will pop up a window as follows.



Linkage Type --User can choose to set black list, white list and stranger separately

Audio Alarm --User can choose audio here for each linkage type. NVSS support to add audio customerly, copy video to path ' /usr/jstnvr/Alarm Sound ', need to make sure the format of audio is .wav

Send Email --Send email when there is alarm.

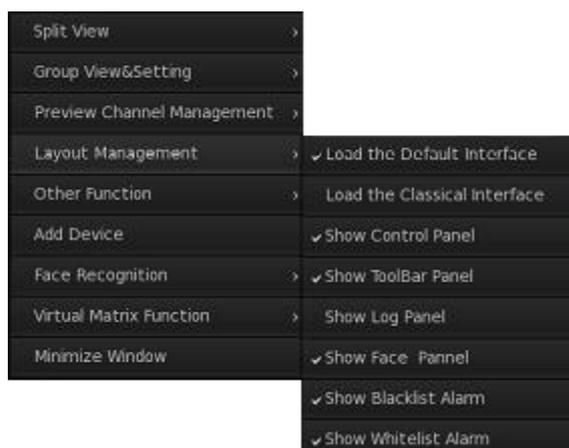
Face Statistics --Write face alarm information to face statistics.

Push Alarm Message -- Push alarm message to APP

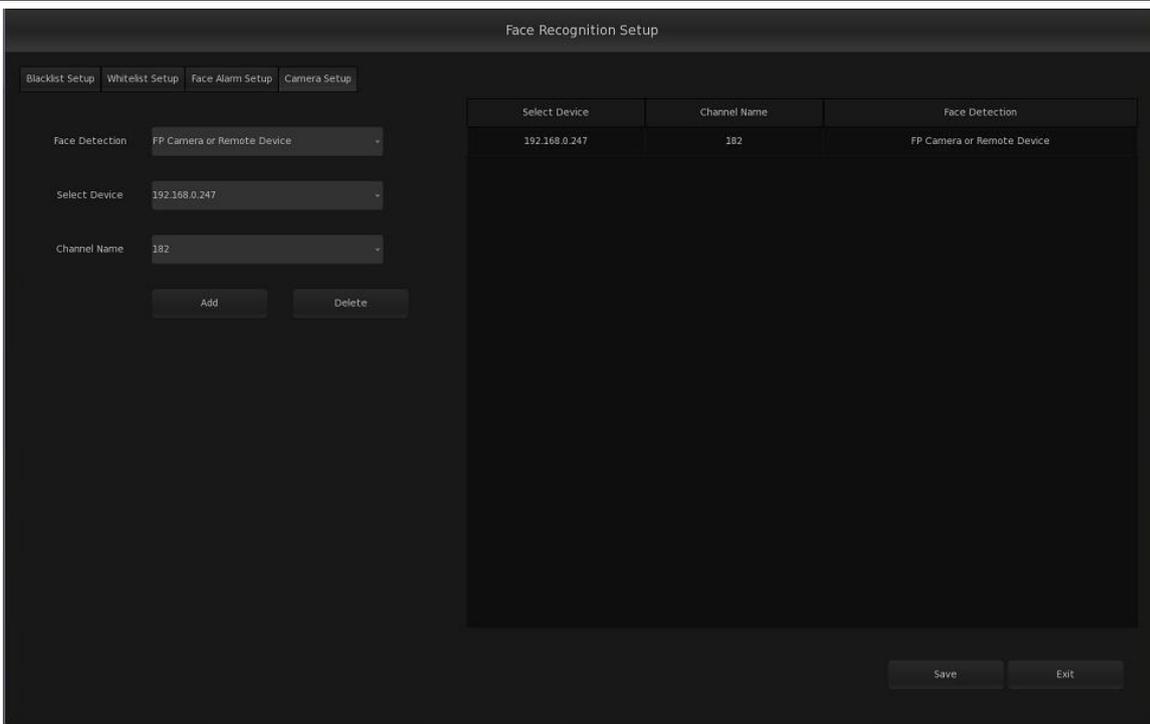
Trigger Alarm Output --Support to choose device to show alarm as DO, there is a alarm out delay time which used to set to close DO.

Notice:

If you want to show the face matching result of black / white list, need to select on the layout management. Right click on the main interface, you will see as follows.



7.1.3 Camera Setup



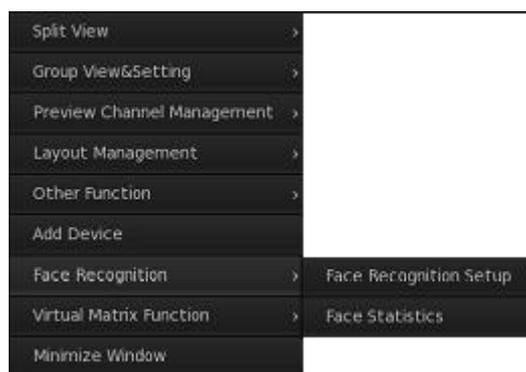
Face Detection FP Camera or Remote Device --Select the device type to detect faces.

Select Device 192.168.0.247 --Select a device

Channel Name 182 --Select a camera on remote storage server to detect face, this camera must be the one to capture face on storage server.

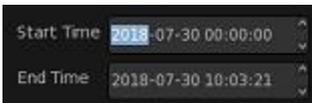
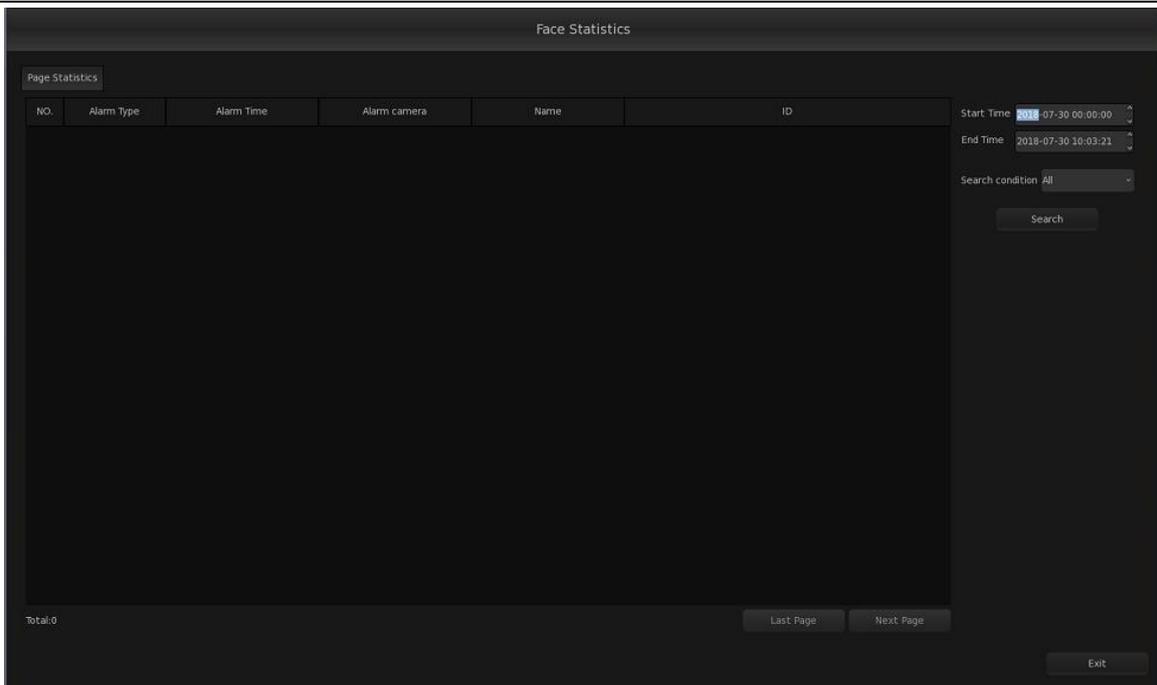
7.2 Face Statistics

Right click on the main interface, select face recognition>Face statistics



Face alarm statistics is used to induct face alarm information. Check the following interface.

1. Check the information of a exist person in face list which can be used to do staff attendance
2. Check the visitors flowrate in a period time, used in some super market.
3. Check visitors in and out of the situation, used in residential quarters



--Select a period of time to search here



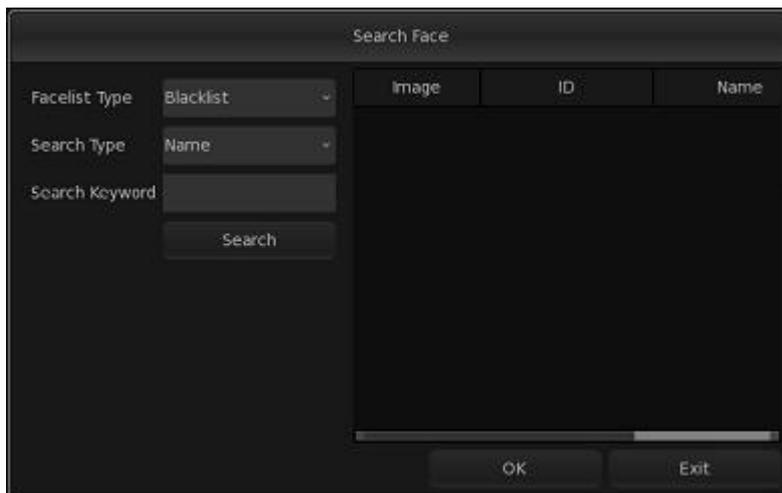
--Select a search condition here

All: It will search all the information about face alarm

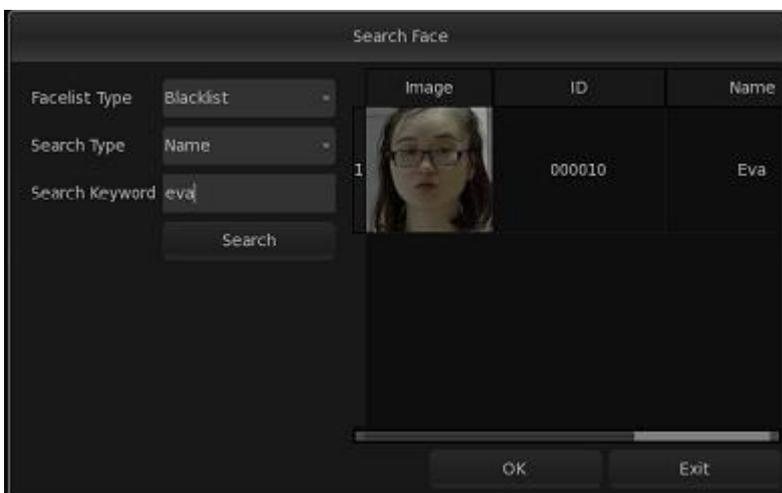
Designated Face: Search face alarm information of an existing face in black / white list. It will show as following picture when you select designated face,



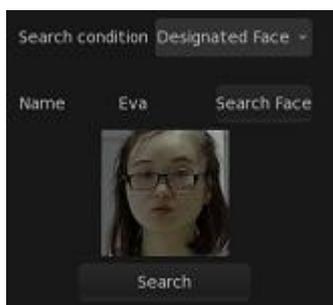
Click **Search Face**, it will pop up the following interface

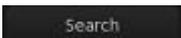


Input a ID or name of black / white list, then click  to show the face information on the right window as following picture.



Select it, then click , this face picture will be shown on the face statistics main interface as follows.



Then click , it will be shown as follows.

Click to view your appointments and tasks

Face Statistics

Page Statistics

NO.	Alarm Type	Alarm Time	Alarm camera	Name	ID
1	Blacklist	2018-07-30 08:40:25	182	Eva	000010
2	Blacklist	2018-07-30 08:45:02	182	Eva	000010
3	Blacklist	2018-07-30 08:53:30	182	Eva	000010
4	Blacklist	2018-07-30 08:55:22	182	Eva	000010
5	Blacklist	2018-07-30 09:15:57	182	Eva	000010
6	Blacklist	2018-07-30 09:19:23	182	Eva	000010
7	Blacklist	2018-07-30 09:24:48	182	Eva	000010
8	Blacklist	2018-07-30 09:27:33	182	Eva	000010
9	Blacklist	2018-07-30 09:36:33	182	Eva	000010
10	Blacklist	2018-07-30 09:52:46	182	Eva	000010

Total:10

Start Time: 2018-07-30 00:00:00
End Time: 2018-07-30 10:07:20
Search condition: Designated Face
Name: Eva Search Face

Search

Last Page Next Page Exit

Other condition: It will show two options as follows, you can search face alarm information according to alarm type or channel.

Search condition: Other condition

Alarm Type: Blacklist Alarm

Channel: 182

Search

There are three options which are black list alarm, white list alarm and stranger alarm for alarm

Alarm Type

- Blacklist Alarm
- Whitelist Alarm
- Stranger Alarm

type

Click to view your appointments and tasks

Face Statistics

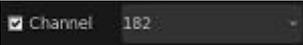
Page Statistics

NO.	Alarm Type	Alarm Time	Alarm camera	Name	ID
59	Blacklist	2018-07-30 07:10:07	182	2018-07-23 101648	
60	Blacklist	2018-07-30 07:10:07	182	2018-07-23 095840	
61	Blacklist	2018-07-30 07:10:07	182	2018-07-23 095845	
62	Blacklist	2018-07-30 07:10:09	182	2018-07-23 095847	
63	Blacklist	2018-07-30 07:10:09	182	2018-07-23 100441	
64	Blacklist	2018-07-30 07:10:10	182	2018-07-17 102142	
65	Blacklist	2018-07-30 07:10:11	182	张培培	0000000000000000155
66	Blacklist	2018-07-30 07:10:12	182	2018-07-23 095853	
67	Blacklist	2018-07-30 07:10:14	182	2018-07-23 102229	
68	Blacklist	2018-07-30 07:10:15	182	2018-07-23 095853	
69	Blacklist	2018-07-30 07:10:15	182	2018-07-23 095859	
70	Blacklist	2018-07-30 07:10:18	182	2018-07-23 095850	
71	Blacklist	2018-07-30 07:10:21	182	2018-07-23 095358	
72	Blacklist	2018-07-30 07:10:24	182	2018-07-23 095848	
73	Blacklist	2018-07-30 07:10:25	182	2018-07-23 100441	
74	Blacklist	2018-07-30 07:10:25	182	2018-07-23 095845	
75	Blacklist	2018-07-30 07:10:25	182	2018-07-23 095410	
76	Blacklist	2018-07-30 07:10:28	182	2018-07-23 101648	
77	Blacklist	2018-07-30 07:10:28	182	2018-07-23 095853	
78	Blacklist	2018-07-30 07:10:29	182	2018-07-23 095906	
79	Blacklist	2018-07-30 07:10:29	182	2018-07-23 095846	

Total:6137

Start Time: 2018-07-30 00:00:00
End Time: 2018-07-30 10:07:20
Search condition: Other condition
 Alarm Type: Blacklist Alarm
 Channel
Search

Last Page Next Page Exit

When you select a channel here , it will be shown as follows.

Click to view your appointments and tasks

Face Statistics

Page Statistics

NO.	Alarm Type	Alarm Time	Alarm camera	Name	ID
80	Blackdst	2018-07-30 07:10:29	182	2018-07-23 095846	
81	Blackdst	2018-07-30 07:10:29	182	2018-07-23 095807	
82	Blackdst	2018-07-30 07:10:29	182	2018-07-23 100436	
83	Blackdst	2018-07-30 07:10:30	182	2018-07-23 095847	
84	Blackdst	2018-07-30 07:10:30	182	2018-07-23 095840	
85	Stranger	2018-07-30 07:10:30	182		
86	Blackdst	2018-07-30 07:10:34	182	2018-07-23 095910	
87	Blackdst	2018-07-30 07:10:35	182	2018-07-23 095835	
88	Blackdst	2018-07-30 07:10:35	182	2018-07-23 095432	
89	Blackdst	2018-07-30 07:10:38	182	2018-07-23 095427	
90	Blackdst	2018-07-30 07:10:38	182	2018-07-23 095833	
91	Blackdst	2018-07-30 07:10:39	182	2018-07-23 095428	
92	Blackdst	2018-07-30 07:10:41	182	2018-07-23 095423	
93	Blackdst	2018-07-30 07:10:43	182	2018-07-23 095424	
94	Blackdst	2018-07-30 07:10:44	182	2018-07-23 095418	
95	Stranger	2018-07-30 07:10:44	182		
96	Blackdst	2018-07-30 07:10:47	182	2018-07-23 095407	
97	Blackdst	2018-07-30 07:10:47	182	2018-07-23 101237	
98	Blackdst	2018-07-30 07:10:47	182	2018-07-23 095812	
99	Blackdst	2018-07-30 07:10:48	182	2018-07-23 095414	
100	Blackdst	2018-07-30 07:10:48	182	2018-07-23 100322	

Total:6711

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Exit

Start Time 2018-07-30 00:00:00
End Time 2018-07-30 10:12:56
Search condition Other condition
Alarm Type
 Channel 182
Search

Also you can search with two options at the same time. It will be shown as follows

Click to view your appointments and tasks

Face Statistics

Page Statistics

NO.	Alarm Type	Alarm Time	Alarm camera	Name	ID
1	Whitelist	2018-07-30 08:40:25	182	Eva	000010
2	Whitelist	2018-07-30 08:41:56	182	赵旭	000005
3	Whitelist	2018-07-30 08:45:02	182	Eva	000010
4	Whitelist	2018-07-30 08:53:05	182	赵旭	000005
5	Whitelist	2018-07-30 08:53:30	182	Eva	000010
6	Whitelist	2018-07-30 08:55:22	182	Eva	000010
7	Whitelist	2018-07-30 09:07:19	182	高建雄	000004
8	Whitelist	2018-07-30 09:15:57	182	Eva	000010
9	Whitelist	2018-07-30 09:19:23	182	Eva	000010
10	Whitelist	2018-07-30 09:24:48	182	Eva	000010
11	Whitelist	2018-07-30 09:27:33	182	Eva	000010
12	Whitelist	2018-07-30 09:36:33	182	Eva	000010
13	Whitelist	2018-07-30 09:52:46	182	Eva	000010

Total:13

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Exit

Start Time 2018-07-30 00:00:00
End Time 2018-07-30 10:12:56
Search condition Other condition
 Alarm Type Whitelist Alarm
 Channel 182
Search