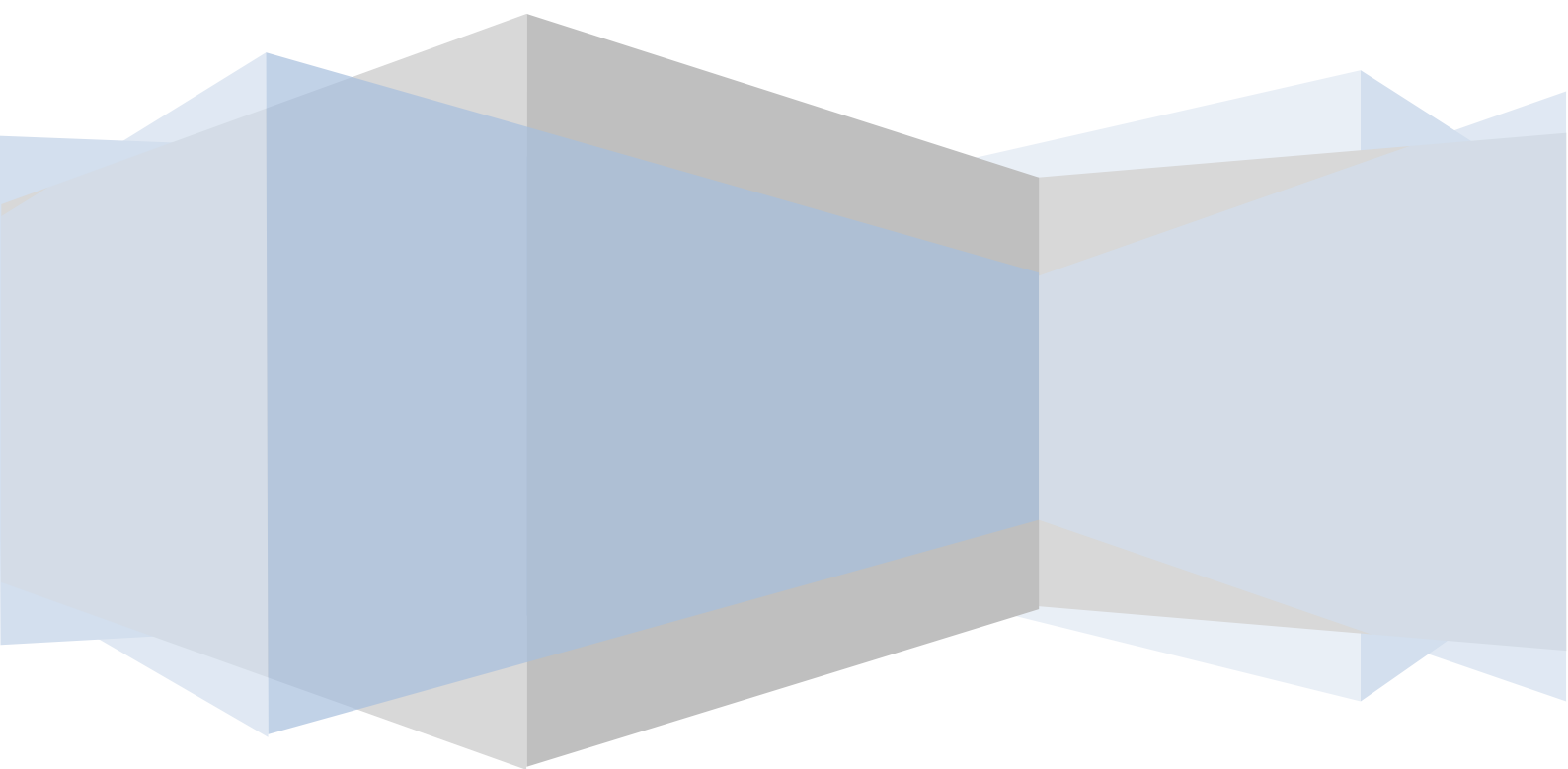


CMS

User Manual



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1 Software Introduction

In this chapter, you will read a detailed introduction of the operation environment, install & uninstall of this software.

1.1 Summary

CMS is a monitoring client which is specially designed for network video surveillance. After the network video monitoring system is well built, the super administrator can control the video input signal devices, such as cameras, domes, etc., to achieve live monitor, video record and backup by configuring the video parameters and viewing the live in the control panel. Users can choose the menu to control video surveillance system in the control panel.

The main functions of the control panel include live view, playback, E-map, device management, group and scheme settings, user account and permission, local log, basic configuration and alarm management.

1.2 Operation Environment

1) Operating System Requirement:

System	Recommendation
Windows XP	Windows XP professional version (32bit), direct 9.0c. Microsoft YaHei font need to be installed.
Windows 7	Windows 7 (32bit/64bit , support SP1) , Direct 11.0 or above
Windows 8	Windows 8 (32bit/64bit) , Direct 11.0 or above

2) Hardware Requirement:

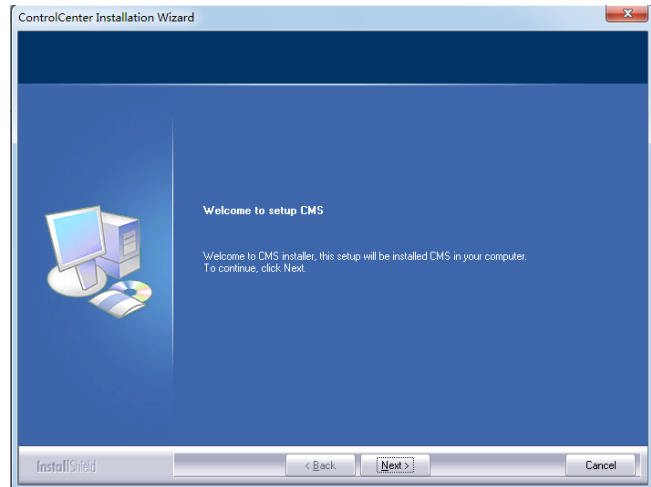
Item	Recommendation
CPU	Intel Core Dou , 2.6GHz or higher
Memory	2GB or above
HDD	250GB or above
Graphics Card	Independent graphics card; 512M graphics memory or higher

3) When running CMS, you need to ensure that all the running antivirus software and firewall are closed, so that the program of the CMS can be installed.

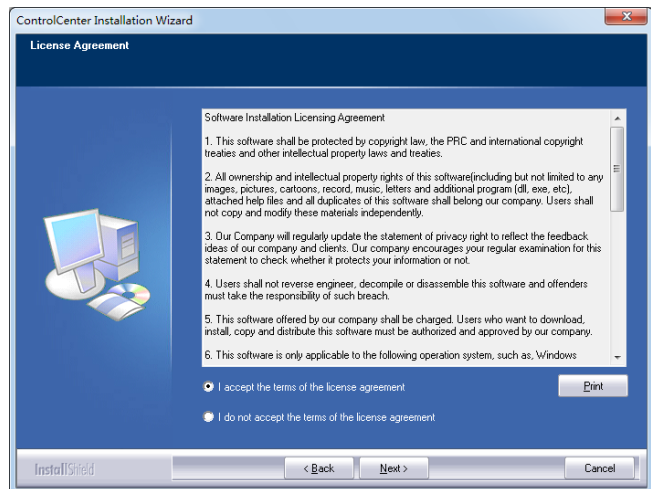
1.3 Install and Uninstall

1.3.1 Install the Software

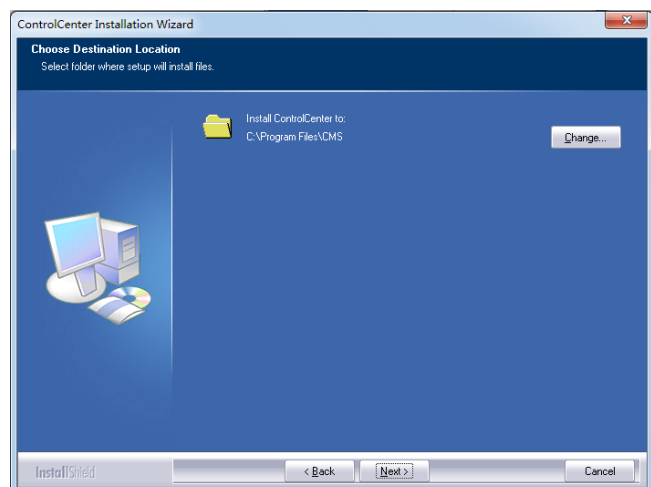
Double click “setup.exe” to enter the Installation Wizard. Click **【Next】** to install.



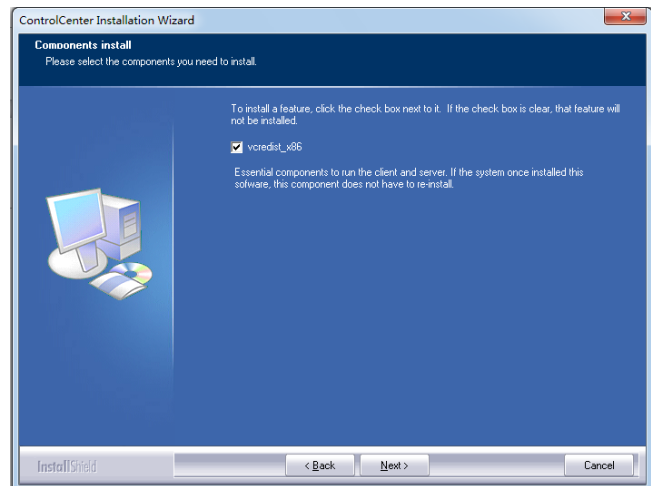
Select “I accept the terms of the license agreement” and click **【Next】** to continue.



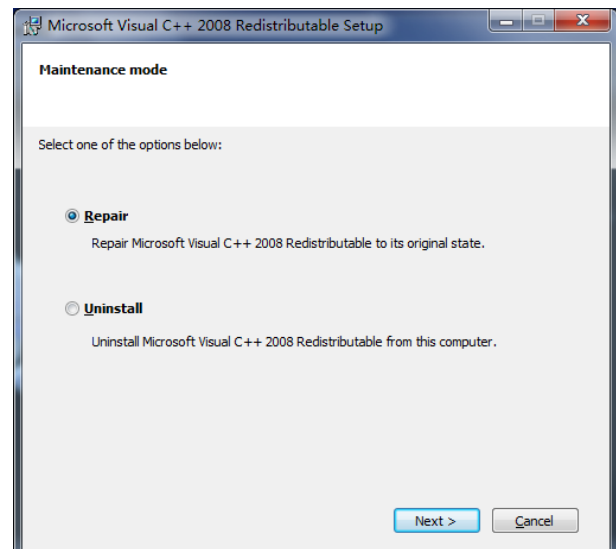
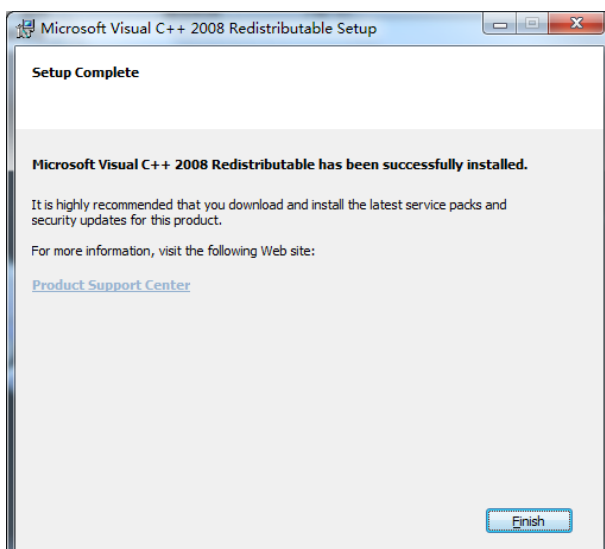
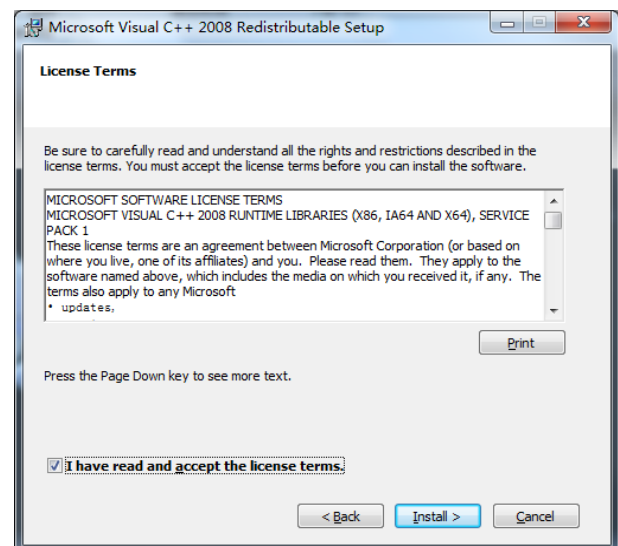
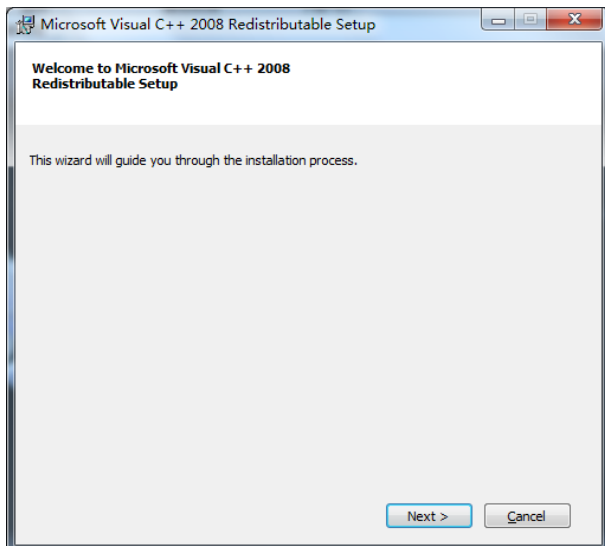
Click **【Change】** button to change the directory to save the program files. Click **【Next】** to continue.



Check “vcredist_x86” and click【Next】to install this plug-in.

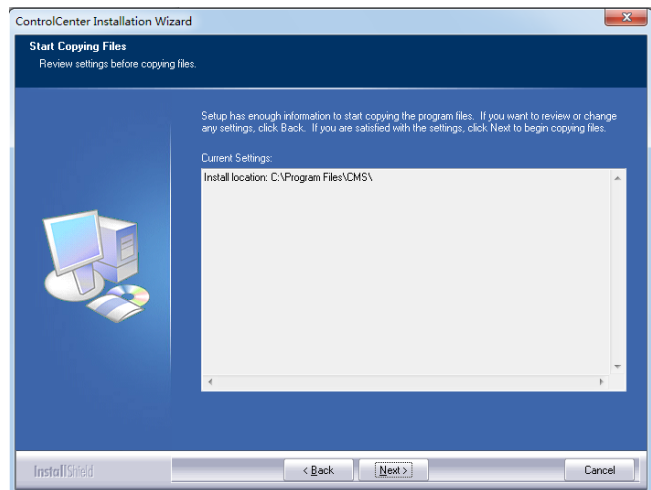


Click【Next】; check “I have read and accept the license terms” and click【Install】to start installation of vcredist_x86; then click 【Finish】 to complete installation. Please refer to the below pictures.

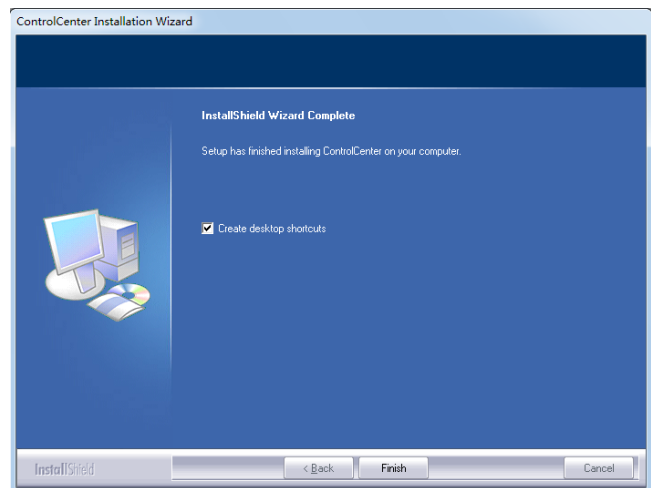


Note: If the above plug-in has been installed, please click 【Repair】 and click 【Next】 to repair software. Click 【Finish】 button to finish repairing.

Click **【Next】** to continue.



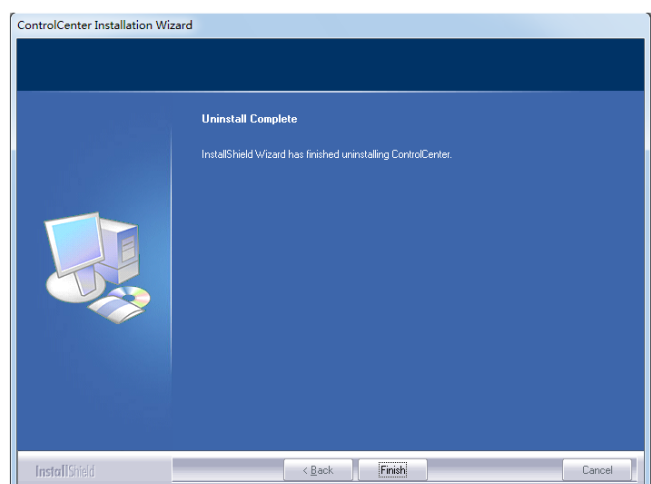
At last, check “Create desktop shortcuts”, and then click **【 Finish 】** button to complete installation.



1.3.2 Uninstall the Software

Click “Start” at the bottom of the desktop to find the shortcut of CMS; then click “Uninstall” to pop up a dialog window; click **【Yes】** to uninstall the software.

At last, click **【Finish】** button to finish uninstall .

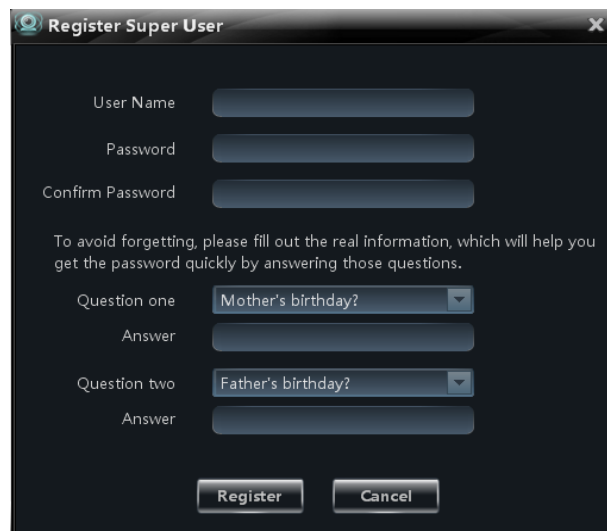


2 Login Software

2.1 Login

First time to login:

- ① For the first time to run the CMS, you need to register a super administrator. You shall self-define the username and password.
- ② To avoid forgetting the password, you can set some questions to help you find the password quickly.
- ③ After you input your user name, password and set the questions and answers, click **【Register】** to register the super administrator.



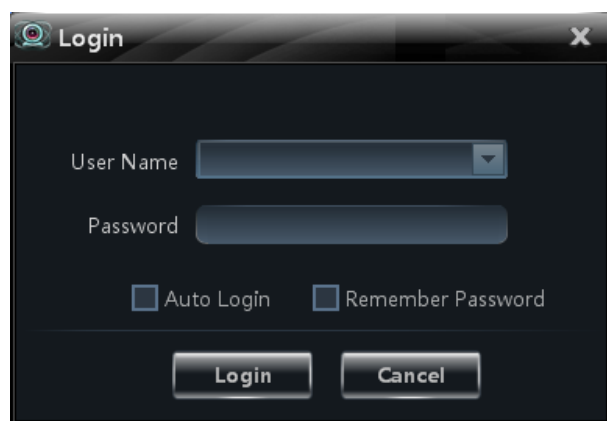
The 'Register Super User' dialog box contains the following fields and controls:

- User Name: text input field
- Password: text input field
- Confirm Password: text input field
- Instructions: "To avoid forgetting, please fill out the real information, which will help you get the password quickly by answering those questions."
- Question one: dropdown menu (selected: "Mother's birthday?")
- Answer: text input field
- Question two: dropdown menu (selected: "Father's birthday?")
- Answer: text input field
- Buttons: "Register" and "Cancel"

Input the username and password created by you.
Click **【Login】** to enter into the software.

If checking "Remember Password", there will be no need to input password when you log in next time.

If checking "Auto Login", it will automatically log in as current user next time.

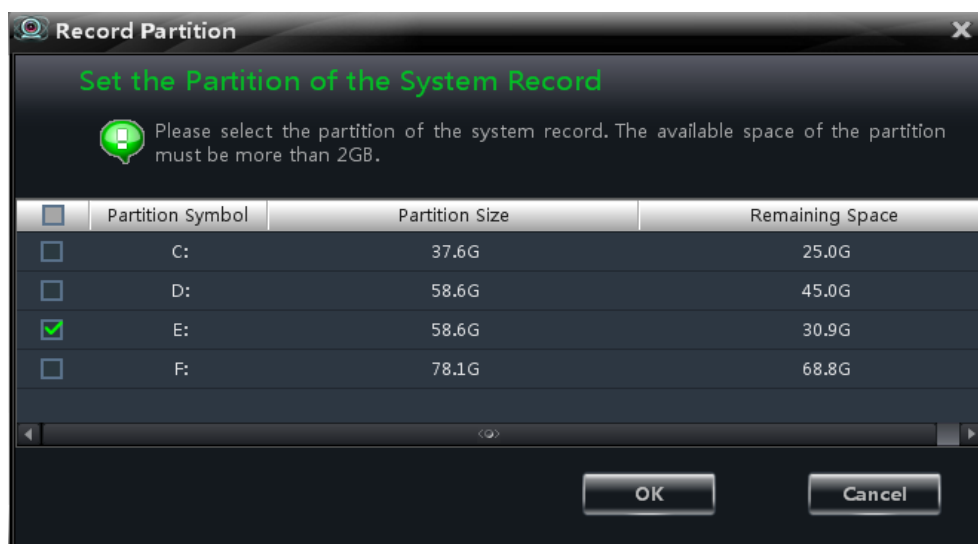


The 'Login' dialog box contains the following fields and controls:

- User Name: dropdown menu
- Password: text input field
- Auto Login: checkbox
- Remember Password: checkbox
- Buttons: "Login" and "Cancel"

Successful login for first time:

After successful login, a window will pop up. Check the partition for storing record files and click **【OK】** to save the settings.



The 'Record Partition' dialog box displays the following information:

Set the Partition of the System Record

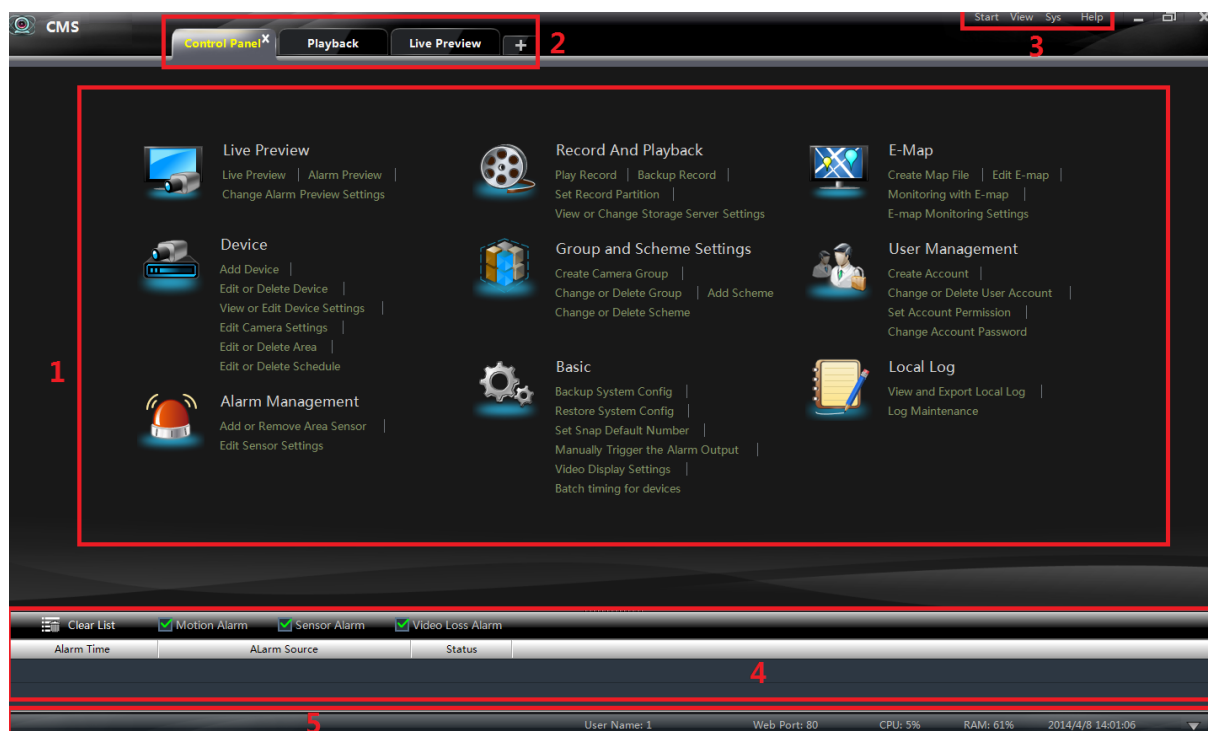
Please select the partition of the system record. The available space of the partition must be more than 2GB.

<input type="checkbox"/>	Partition Symbol	Partition Size	Remaining Space
<input type="checkbox"/>	C:	37.6G	25.0G
<input type="checkbox"/>	D:	58.6G	45.0G
<input checked="" type="checkbox"/>	E:	58.6G	30.9G
<input type="checkbox"/>	F:	78.1G	68.8G

Buttons: "OK" and "Cancel"

2.2 Control Panel Instruction

The control panel of CMS is shown as below:












There are five areas in the main interface of this software. The descriptions of each area are as follows :

Area	Description	Area	Description
1	Function Area	2	Tab Bar—to display the operated functions
3	Menu Bar	4	Alarm Information List
5	Status information list		





Description of Menu Bar

Menu	Description
Start	Export the control panel, live preview, playback tab and lock or exit the client.
View	Export the live preview, control panel, local log, E-map, alarm preview, playback, user account and permission, basic configuration and device management and organize the live view.
System	Including lock client , broadcast to device, switch user, import or export configuration, etc.
Help	View user manual and software version.


Descriptions of Function Module

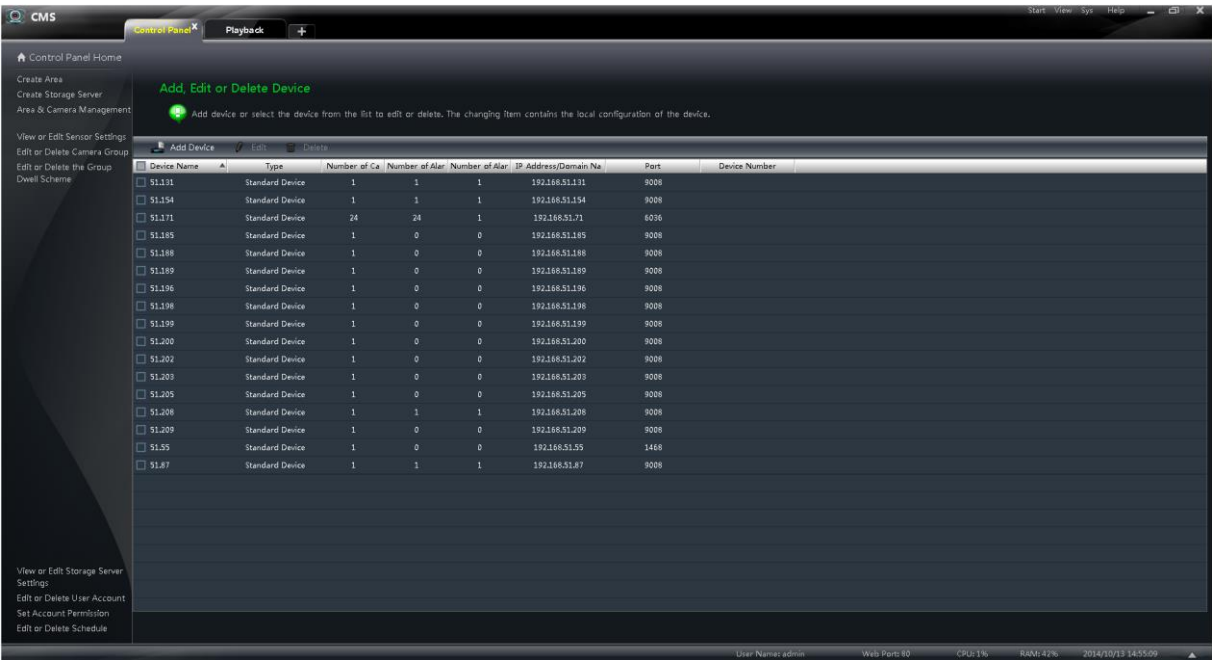
Menu	Description
	Live Preview: To view live images and record, snap, control PTZ, etc.
	Playback: To remotely play the local record.
	E-map: To manage and display maps, hot zones and hot spots. To operate E-maps – zoom in/out e-maps, view hot zones and hot spots, display alarm information on the map.
	Device Management: To create, modify or delete areas, devices and cameras.
	Group and Scheme Settings: To create, modify or delete camera groups and schemes.
	User Account and Permission: To add, modify, delete user and user permission.
	Local Log: To search, view and backup local log.
	Basic Configuration: To setup record partition and path, system startup and maintenance & backup and restoration.
	Alarm Management: To add or remove the sensor of the area; To setup alarm trigger and modify the area of the sensor.

Descriptions of Other Buttons

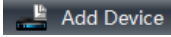
Button	Description
	Click to hide the window.
	Click to zoom in/out the window.
	Click to exit the window.
	Click to extend or shrink the window (eg. Extend or shrink the list of alarm information list).

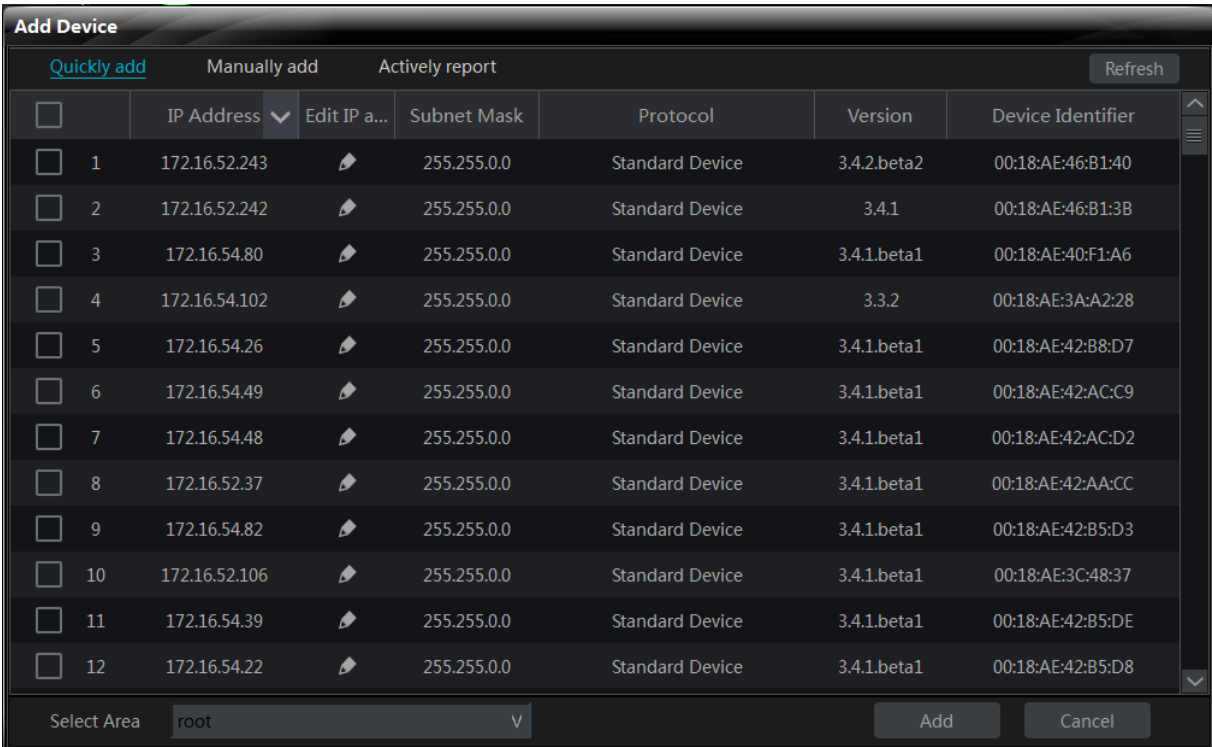
3 Device Management

In the control panel, click  icon to enter the device management interface.



3.1 Add Device










The “Add Device” interface will pop up after clicking  button. The CMS system will search the online device automatically in the same LAN network. Users can enter into “Manually Add” interface to add third party devices.




3.1.1 Quickly Add

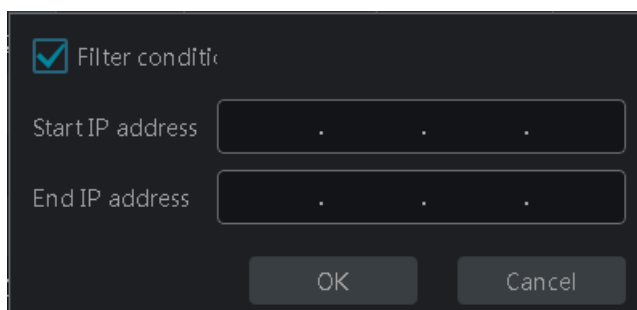
The “Quickly Add” interface is shown before. In this interface, user can click the **Refresh** button on the right top corner to quickly refresh the online device in the same LAN network.

➤ The positive sequence or negative sequence display of online device list


Click **Version** or **Device Identifier** title bar or the remaining area except  in the  title bar (Clicking  will check all the device in the device list), the icon  or  will shown.  means the device in the device list is shown in positive sequence;  means the device in the device list is shown in negative sequence.  or  will not shown if user click **IP Address/Domain** title bar, but the device list will still display between positive and negative sequence if user click this title bar. By clicking these four title bars, the device list will display in positive sequence or negative sequence according to device number, IP address, version or device identifier.

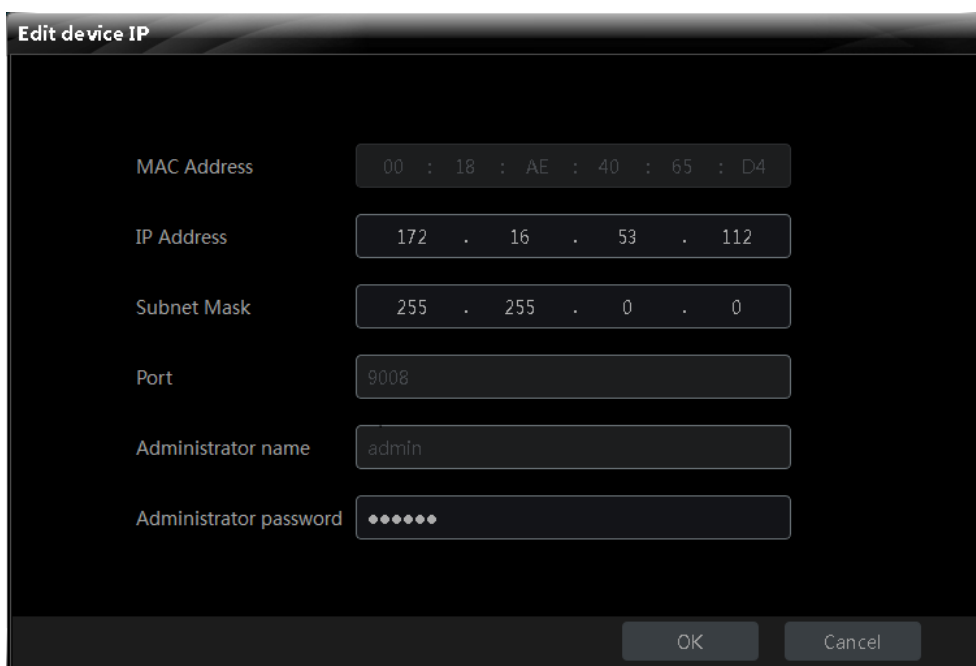
➤ The filter condition display of IP address

Click  icon on the “IP Address / Domain Name” title bar. then check “Filter condition” and input “Start IP address” and “End IP address”, after that the device list will only display the device whose IP is between “Start IP address” and “End IP address”.



➤ The modification of device's IP address

User can modify the IP address of device by clicking  icon. The “Edit device IP” interface is as follows:



Input the “IP Address / Domain”, “Subnet Mask” and “The administrator password” (the password of the device), then click “OK” button to modify the device’s IP address.

Users can select the area of the device on the left down area. If you haven’t created any area before, you can refer to [3.3.1 Area Management](#) to create areas.

3.1.2 Manually Add

Click “Manually add” tag on the “Add Device” interface to switch to “Manually add” interface:

Device name	IP/Domain/Serial number	Port	User name	Password	Protocol	Test link	Main S...	Delete
New Device	0.0.0.0	9008	admin	*****	Standard Device	Test link	<input type="checkbox"/>	

Standard Device
Other Device Ty...
Other Device Ty...
ONVIF

Select Area: root Add Cancel

① In this interface, you can input the “Device name”, “IP / Domain / Serial number”, “Port”, “User name”, “Password” of the device manually and select the “Protocol” according to the device type. Users can choose to use “IP Address”, “Domain name” or “Serial number” to add device. Users can add device which support NAT function by choosing “Serial number” way.

Device name	IP/Domain/Serial number	Port	User name	Password	Protocol	Test link	Main S...	Delete
New Device	IP Address	0.0.0.0	9008	admin	*****	Standard Device	Test link	<input type="checkbox"/>

IP Address
Domain name
Serial number

Select Area: root Add Cancel


IP Address : The IP address of the device.


Domain Name : The domain name of the device.

Serial Number : The MAC address of the device. The MAC address is case-insensitive.

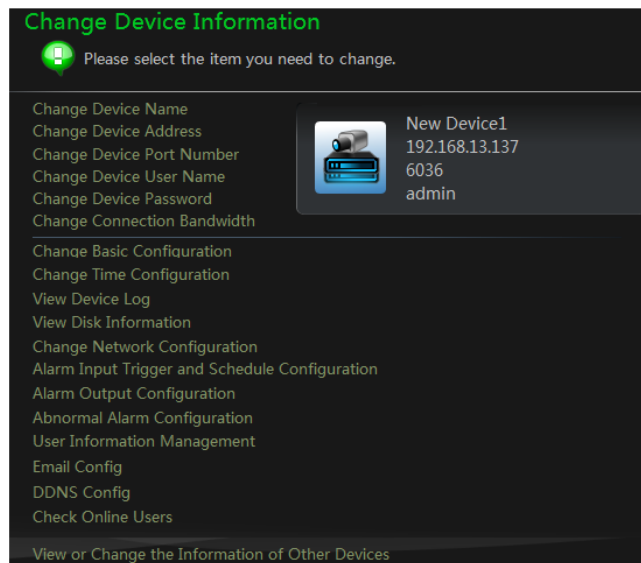
② Click **Test link** button to test the connection of the device. There will be corresponding feedbacks whether successfully connected or not.

3.2 View, Change or Delete Device

Select the added device and click  button to delete the device from the list.

Select the added device and click  to pop up a window.

In this interface, you can change the device name, address, port, etc, or change basic configuration, time configuration, DDNS configuration and Email configuration, etc, you can also query the inline users.



➤ Change the Device Name

Click “*Change Device Name*” to change the name of selected device.



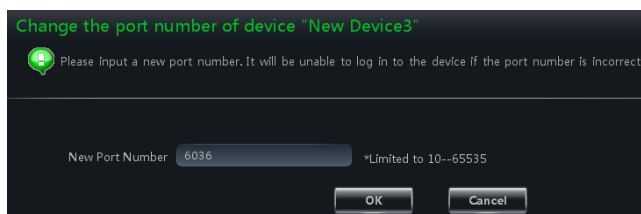
➤ Change Device Address

Click “*Change Device Address*” to change the IP address of selected device.



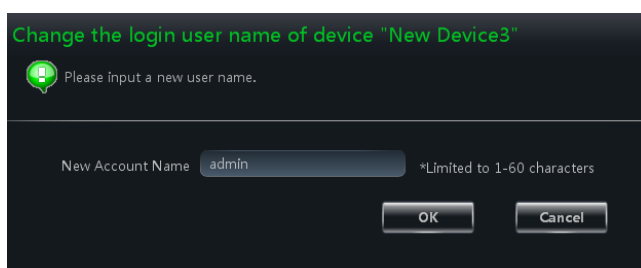
➤ Change Device Port Number

Click “*Change Device Port Number*” to change the port of selected device.



➤ Change Device User Name

Click “*Change Device User Name*” to change the device account name.



➤ Change Device Password

Click “*Change Device Password*” to change device password.

➤ Change Connection Bandwidth

Check “*Use the master stream*” according to the actual situation.

Note: Checking or not checking it will affect the stream choice of live preview.

➤ Change Basic Configuration

Click “*Change Basic Configuration*” to pop up a dialog box. You can change the basic configuration of device and check “Permission Check” or “Record Coverage” according to the actual situation.

➤ Change Time Configuration

Click “*Change Time Configuration*” to enter the interface. Change the time and date if you need.

Check “Sync Time with NTP Server” to synchronize with NTP server.

➤ View Device Log

Click “*View Device Log*” to enter the interface. Choose the type of system logs; enter start time and enter time to search the log information of the device.

➤ View Disk Information

Click “*View Disk Information*” to check the detail information of disk from the list.

Disk Information of Device "New Device1"

View the disk information of the device.

ID	Type	Size[GB]	Status	Property	Source
1	SATA	298.09	Normal	Read and Write	Device

Refresh Back

➤ Change Network Configuration

Click “*Change Network Configuration*” to enter the interface. You can change HTTP port, Server port; network address, etc.

Note: If changing the port and IP address there, the network will disconnect. Then you need to accordingly change the port and IP address of the device connecting the CMS.

Network Configuration of device "New Device2"

Configure the network parameters of the device.

HTTP Port: 80

Server Port: 9008

☒ Static IP Address ☐ Automatically Obtain an IP Address

Network Address: 192 . 168 . 13 . 201

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 13 . 1

Preferred DNS: 192 . 168 . 226 . 1

Alternate DNS Server: 8 . 8 . 8 . 8

Save Cancel

➤ Alarm Input Trigger and Schedule Configuration

Click “*Alarm Input Trigger and Schedule Configuration*” to enter the interface. Select a sensor corresponding to the alarm input; choose a type and holding time for it. You also can set trigger alarm or other configurations.

Alarm Input and Schedule Configuration of the Device "New Device2"

Configure the alarm input and schedule of the device.

Alarm In: SENSOR 17

☒ Alarm

Schedule: Setup

Type: NO

Holding Time(s): 20

Alarm Trigger Configuration

Trigger Alarm: Select Alarm Out

☐ Email

Receive Email Address:

☐ Send Picture

Email Subject:

Email Content:

Save Cancel

➤ Alarm Output Configuration

Click “*Alarm Output Configuration*” to enter the interface. Select an alarm output and holding time; then edit a name for it. You can enable buzzer alarm and set a time for it.

➤ Abnormal Alarm Configuration

Click “*Abnormal Alarm Configuration*” in to enter the interface. Choose the alarm type according to your need. Enable “Buzzer Alarm” and select alarm out.

➤ User Information Management

Click “*User Information Management*” shortcut to enter the interface. You can check the information of user who is logging in the device.

User Name	User Type	Binding MAC Address
admin	Administrator	00:00:00:00:00:00
1	Ordinary User	00:00:00:00:00:00
2	Ordinary User	00:00:00:00:00:00

➤ Email Configuration


Click “Email Configuration” to enter the interface. You can configure the basic parameters of Email.



The screenshot shows the 'Email Configuration of Device "New Device2"' interface. It has a title bar with a green icon and the text 'Set the Email.'. Below the title bar, there are several input fields: 'SMTP Server', 'SMTP Port' (with '25' entered), 'Security Connection' (with a dropdown menu showing 'no'), 'From Email', 'User Name', and 'Password'. Below these fields is a section titled 'Receiver Information' which contains a table with two columns: 'Receiver' and 'Email Address'. At the bottom of the interface are three buttons: 'Add', 'Change', and 'Delete', followed by 'Save' and 'Cancel' buttons.

➤ DDNS Configuration

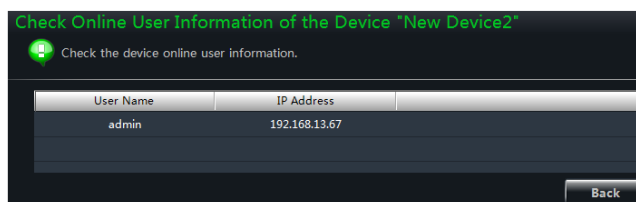
Click “DDNS Configuration” to enter. You can configure the basic parameters of DDNS.



The screenshot shows the 'Change the DDNS Configuration of Device "New Device1"' interface. It has a title bar with a green icon and the text 'Set the basic information of DDNS.'. Below the title bar, there is a checkbox labeled 'Enable DDNS' which is checked. Below the checkbox are several input fields: 'Protocol Type' (with a dropdown menu showing 'www.dvrdydns.com'), 'User Name' (with '20140101tv' entered), 'User Password' (with '*****' entered), 'Confirm' (with '*****' entered), and 'Device Domain' (with 'n8.dvrdydns.com' entered). At the bottom of the interface are two buttons: 'Save' and 'Cancel'.

➤ Check Online Users

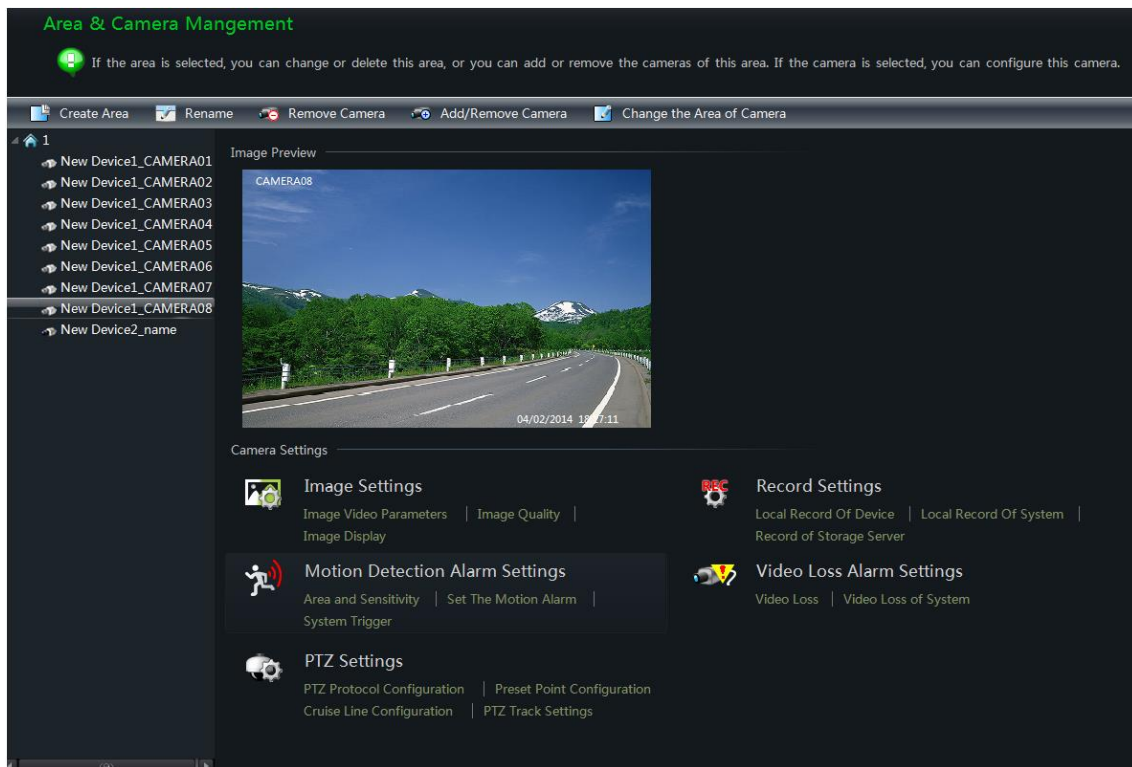
Click “Check Online Users” to enter the interface. In this interface, you can see the number of online users.



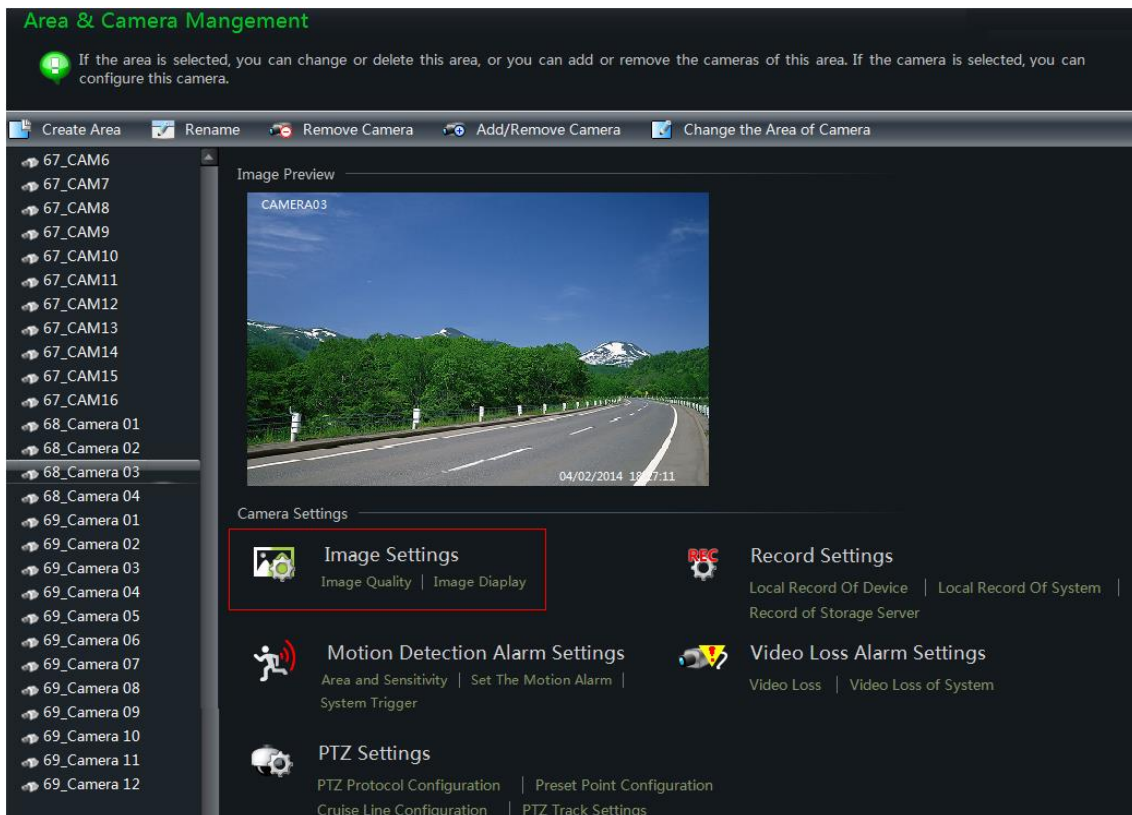
The screenshot shows the 'Check Online User Information of the Device "New Device2"' interface. It has a title bar with a green icon and the text 'Check the device online user information.'. Below the title bar is a table with two columns: 'User Name' and 'IP Address'. The table contains one row with the values 'admin' and '192.168.13.67'. At the bottom right of the interface is a 'Back' button.

3.3 Area and Camera Management


In the control panel, click “**Change Camera Settings**” under Device to enter the interface. You can modify or delete the area and manage the cameras. Select a camera you want to setup as shown on the below figure.



The camera without some functions will not display relative sheets and links. As shown in the following picture.

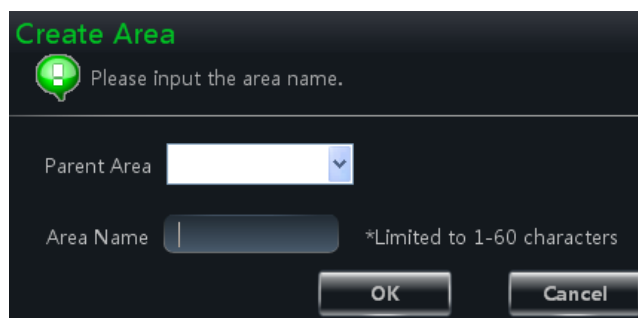


3.3.1 Area Management



Click  button to create area.

Select an area and click  button to change its name.

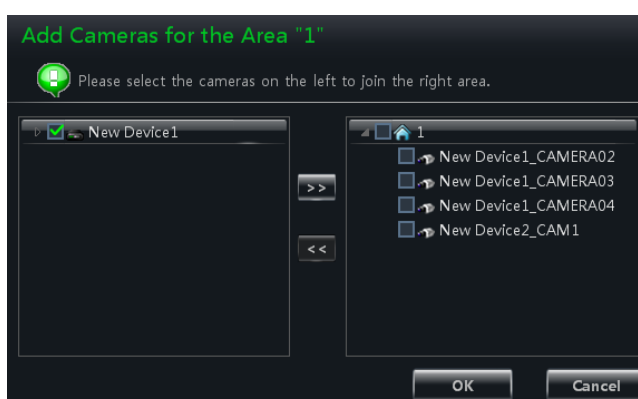
Select an area and click  button to delete it.



Select an area and click  to pop up a window.

- ① Check the camera on the left column and click  button to add the camera to the area.
- ② Check the camera on the right column and click  button to remove the camera from the area.

Select a camera and click  button to modify the area of this camera.



3.3.2 Camera Management

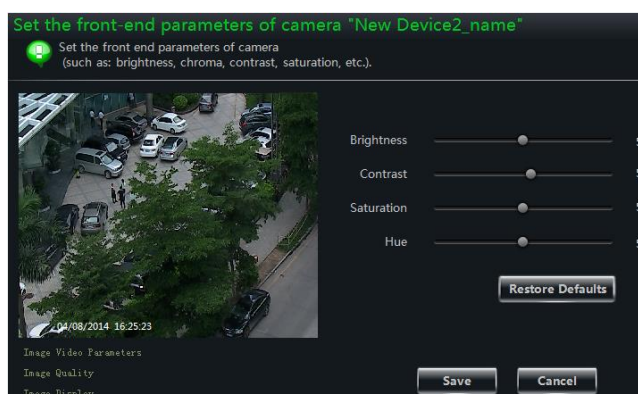
The real-time image will be displayed after selecting a camera. You can setup the parameters of this camera.

➤ Image Settings

Image settings include image video parameter, image quality and image display.

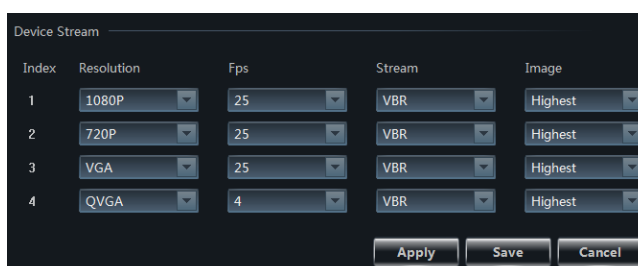
Click ***"Image video parameters"*** to enter the interface.

- ① Adjust the brightness, contrast, saturation and chroma of the image.
- ② Clicking **【Restore Default】** button will restore the above parameters to factory default settings.



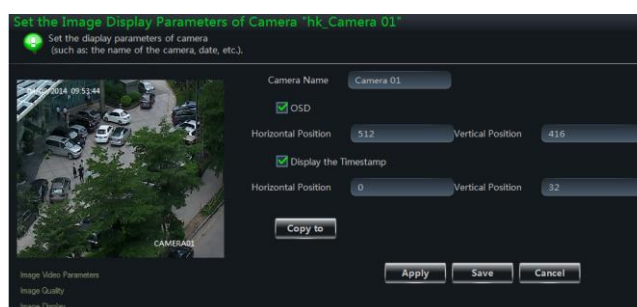
Click ***"Image Quality"*** under Image Settings to enter the interface.

Choose the device stream, resolution, quality, etc. according to practical situation.



Click **“Image Display”** to enter the interface.

- ① Create the camera's name and set up its display position on the OSD including the time stamp.
- ② Click **【Copy to】** button to apply the settings to the selected channel.

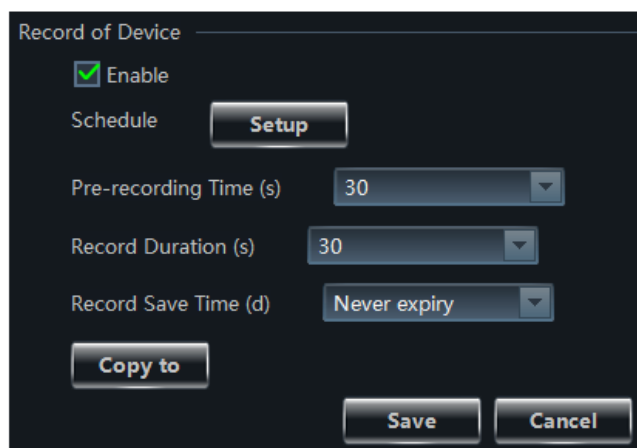


➤ Record Settings

Click **“Record Settings”**, users can set the record of device, the record of system and the record of storage.

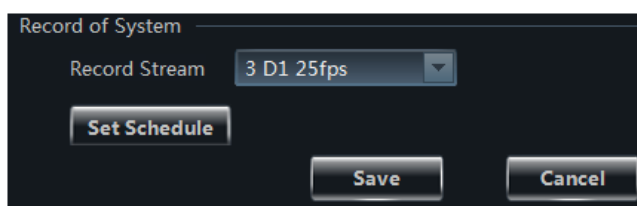
Under the record of device

- ① Choose pre-recording time, duration and record save time.
- ② Click **【Copy to】** button to save the settings to the selected channel.



Under the record of system

You can set schedule and record stream.




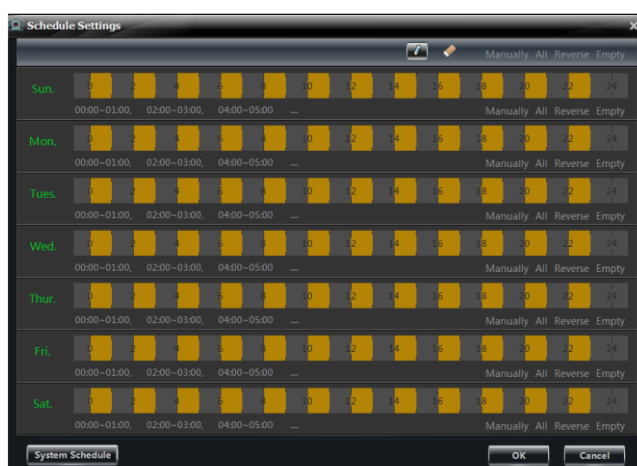
How to set schedule?

The schedule setting between local record of device and local record of system is different.

The schedule setting of local record of device is as follows:



First, you should check the Enable in the Record of Device interface, then click **【Setup】**

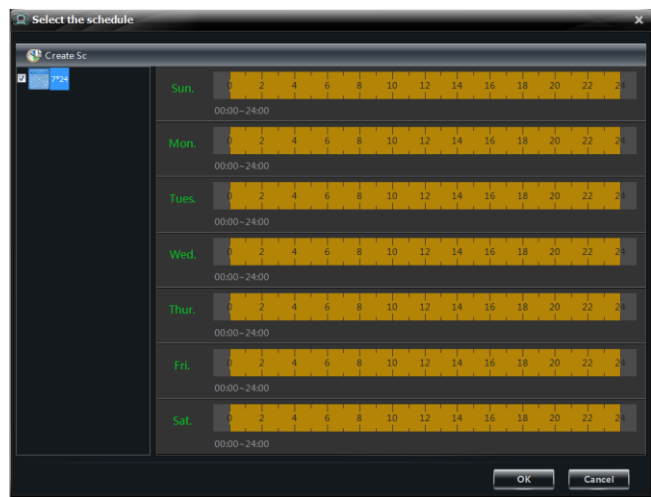
button to pop up a window at right. Click  button to setup schedule or manually input the time.



The schedule setting of local record of system is as follows:

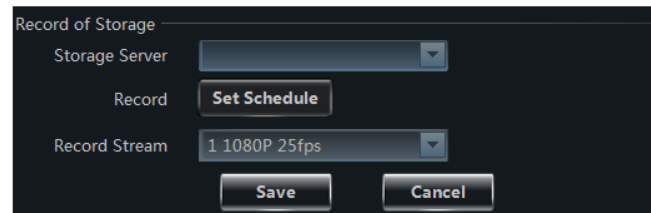
Click **【Set Schedule】** button to pop up the window at right.

- Check “7x24” or “Create Schedule” to set schedule.
- Click  icon and move the cursor to select the time.
- Click  icon to delete the selected time.
- Clicking “Manually” to manually input time
- Click “All” / “reverse” to quickly select the time.
- Click “Empty” to clear all the time.



Under the record of storage

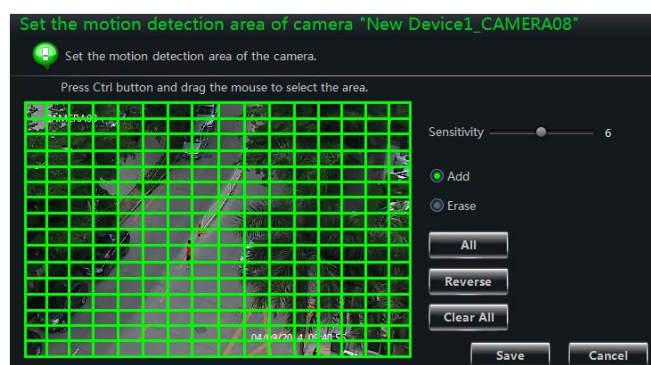
Before we begin the record of storage, please confirm that the right normal storage server which can be used has been added (You can add the storage server by clicking “View or Change Storage Server Settings” in the control panel). Choose a storage server and then setup record schedule and record stream. The schedule setup is the same with the local schedule setup. After setup, you should click **【Save】** button to save the settings.



➤ Motion Detection Alarm Settings

Click “**Area and Sensitivity**” under Motion Detection Alarm Setting to enter the interface.

- ① Drag slide bar to set the sensitivity value. The higher the value is, the more sensitive it is.
- ② Click “Erase”/ “Add”, then hold press “Ctrl” and left click mouse to delete /add the area you want.
- ③ Click **【All】** / **【Reverse】** / **【Clear All】** button to select area or clear all the area quickly.



Click “***Set The Motion Alarm***” under Motion Detection Alarm Setting to enter the motion alarm setting interface as shown at right. User can set motion alarm and linkage configuration.

Note: Please refer to the user manual of the device for device linkage configuration.

The screenshot shows the 'Motion Alarm Setting' interface. At the top, there is a checkbox labeled 'Enable Alarm' which is checked. Below it is a 'Schedule' section with a 'Setup' button. The 'Holding Time(S)' is set to 5. There is a checkbox for 'Buzzer'. Below that are two buttons: 'Trigger Alarm Output' and 'Trigger the Record Channel'. The 'Big Screen Channel' is set to 'Null'. There is a checkbox for 'Email'. The 'Trigger PTZ' section has three dropdown menus: 'Channel' (set to 'Channel1'), 'Type' (set to 'No Trigger'), and 'Number'. At the bottom left is a 'Copy to' button, and at the bottom right are 'Save' and 'Cancel' buttons.

Click “***System Trigger***” under Motion Detection Alarm Setting to enter the interface.

Under the system linkage, check “Trigger to Play Audio File”. If the motion alarm of a certain channel is triggered, there will be given out a sound like “beep”.

Click 【Trigger the Big Screen】 button to select channel. If the motion alarm of the selected channel is triggered, a big picture will pop up on the screen.

The screenshot shows the 'System Linkage' interface. It has a checkbox labeled 'Trigger to Play Audio File'. Below it are two buttons: 'Trigger the Big Screen' and 'Trigger the Record Channel'. To the right of the 'Trigger the Big Screen' button, it says 'Current big screen channel: Null'. At the bottom right are 'Save' and 'Cancel' buttons.

Click 【Trigger the Record Channel】 button to select channel. If the motion alarm of the selected channel is triggered, the channel’s record will be opened automatically.

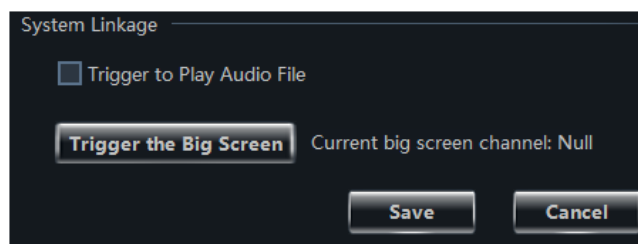
➤ Video Loss Alarm Settings

Click “***Video Loss***” to enter the interface. The steps of configuring video loss are same with the device settings; please refer to the video loss chapter of device user manual.

The screenshot shows the 'Video Loss Alarm Settings' interface. It has a checkbox labeled 'Buzzer' which is checked. Below it is a button labeled 'Trigger Alarm Output'. The 'Big Screen Channel' is set to 'Null'. There is a checkbox for 'Email'. The 'Trigger PTZ' section has three dropdown menus: 'Channel' (set to 'Channel1'), 'Type' (set to 'No Trigger'), and 'Number'. At the bottom left is a 'Copy to' button, and at the bottom right are 'Save' and 'Cancel' buttons.

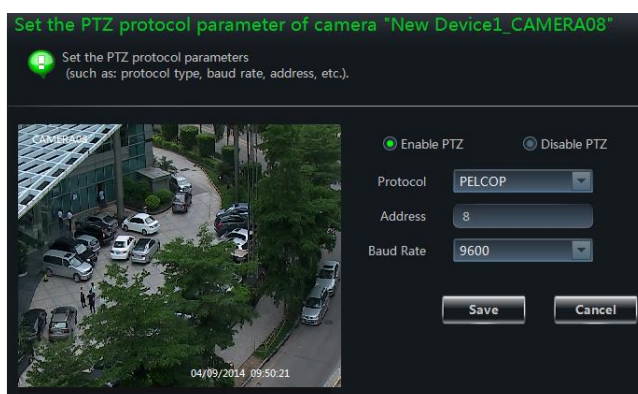
➤ Video Loss of System

Click “**Video Loss of System**” to enter the right window. You can set the video loss of system.

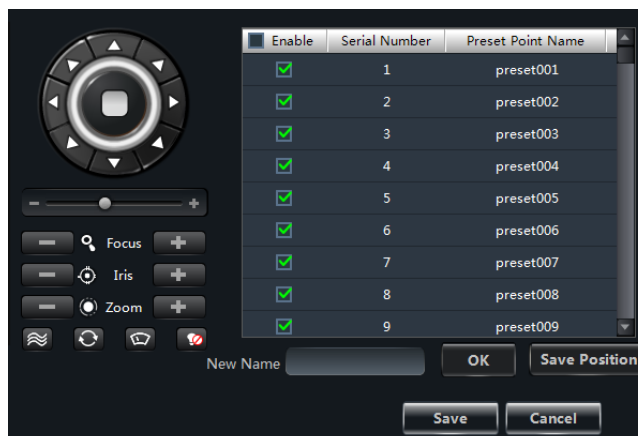


➤ PTZ Settings

Click “**PTZ Protocol Configuration**” under PTZ Settings to enter the interface. You can enable or disable PTZ. From the Protocol and Baud Rate drop-down menu, choose a protocol and a baud rate to associate with the PTZ, and then input the address of the PTZ connecting the software.

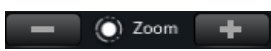








Click “**Preset Point Configuration**” under PTZ Settings to enter the interface. Enable corresponding preset points and create a new name in the “New Name” field by selecting the preset point. Adjust the dome direction, speed, etc by clicking the buttons. Click 【Save Position】 to save the current position of the dome.



The definitions of the buttons are below:

Buttons	Description
	▲ means the dome rotate up; ▲ means the dome rotate up left; ▼ means the dome rotate up right; ▼ means the dome rotate down. ▼ means the dome rotate left down; ▲ means the dome rotate right down; ▲ means the dome rotate left; ▼ means the dome rotate right; ■ means the dome stop rotating
	Drag the slider bar to adjust rotation speed of the dome
	Focus button. Click + button to obtain long focus. Click - button to obtain short focus
	Iris button. Click + button to increase light of the dome. Click - button to decrease light of the dome


	Zoom button. Click  button to zoom in the picture of this camera. click  button to zoom out the picture of this camera
	Track
	Auto Scan
	Wiper button
	Light button

Return to Area and Camera Management interface, and then click “**Cruise Line Configuration**” PTZ Settings. You can add/change/preview/delete curies.



In the Area and Camera Management interface, click “PTZ Track Settings” to see the picture on the right hand. You can set the PTZ track.

➤ Remove camera

In the Area and Camera Management interface, select a camera, click  Remove Camera button to pop up a dialog window, click **【OK】** button to remove the camera.

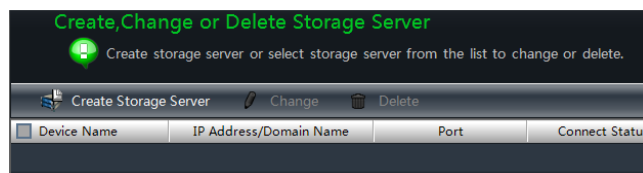


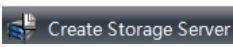

4 Storage Server Management



CMS support the function of storage server. By using storage server, you can store the IPC device image, it does not matter on record storage even if you shut down the storage server.

4.1 Create Storage Server

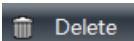
Click “View or Change Storage Server Settings” under Record and Playback in the control panel, you will enter the “Create, Change or Delete Storage Server” interface shown on the right.




Before you begin to create a storage server, you must set the storage server and the CMS software under a same LAN. By clicking  button, you can enter the “Create New Storage Server” interface. The CMS software will search available storage server under the same LAN automatically after you enter this interface. If none storage server is searched after a long time, you can click  button to refresh. The default IP address, username and password of storage server is “192.168.1.200”, “admin” and “123456”. The first time you use the storage server, only if you input the default username and password, you can add this storage server. The IP address, username and password of storage server can be changed, the way to change is in [section 4.2 “Change or Delete the Information of this Storage Server”](#).

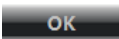
Select any storage server device in the list, the IP address and port number of this storage server will be shown below. The server name, IP address, port number and other information of storage server can be changed, the way to change is in [section 4.2 “Change or Delete the Information of this Storage Server”](#). After you input the default username and password, you can click  button to test the connection. If it is connected successfully, then click  button to add this storage server.

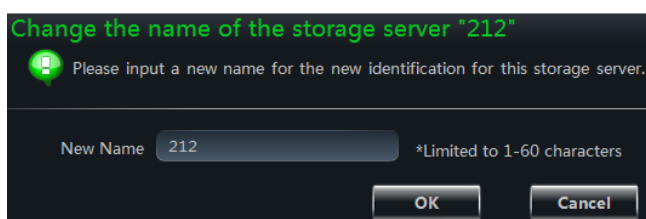
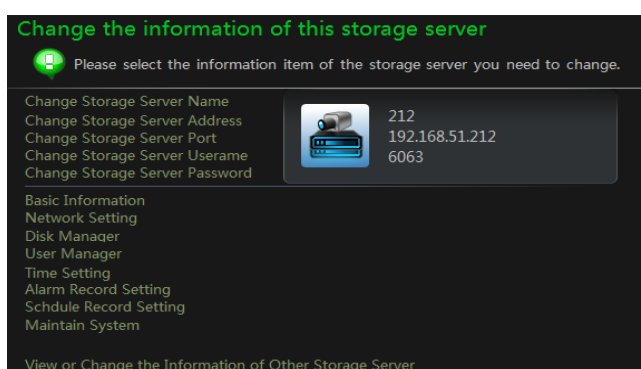
4.2 Change or Delete the Information of Storage Server

Select the storage server you want to delete in the “Create, Change or Delete Storage Server” interface, click  button to remove it from the list.

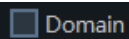
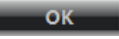
Select the storage server you want to change in the “Create, Change or Delete Storage Server” interface, click  button to enter into “Change the information of this storage server” interface shown on the right, in this interface, you can change the server name, IP address, port number and other information of storage server.

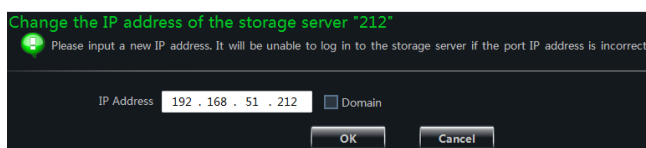
➤ Change Storage Server Name

Select “Change Storage Server Name” in “Change the information of this storage server” interface to change the name of storage server. Input the new name according to the rules and then click  button to save the change.

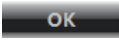


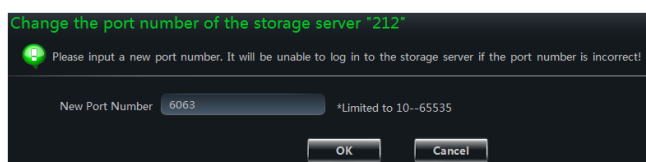
➤ Change Storage Server Address

Select “Change Storage Server Address” in “Change the information of this storage server” interface to change the address of storage server. User must make sure that the IP address changed and the CMS software are in a same LAN. You can also click  to change the domain of storage server and then click  button to save the change.

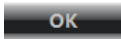


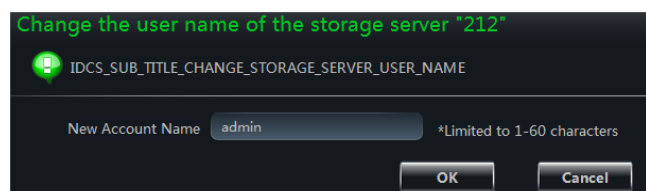
➤ Change Storage Server Port

Select “Change Storage Server Port” in “Change the information of this storage server” interface to change the port of storage server. Then click  button to save the change.

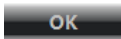


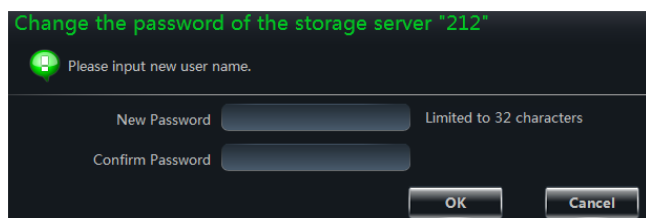
➤ Change Storage Server Username

Select “Change Storage Server Username” in “Change the information of this storage server” interface to change the username of storage server. Then click  button to save the change.

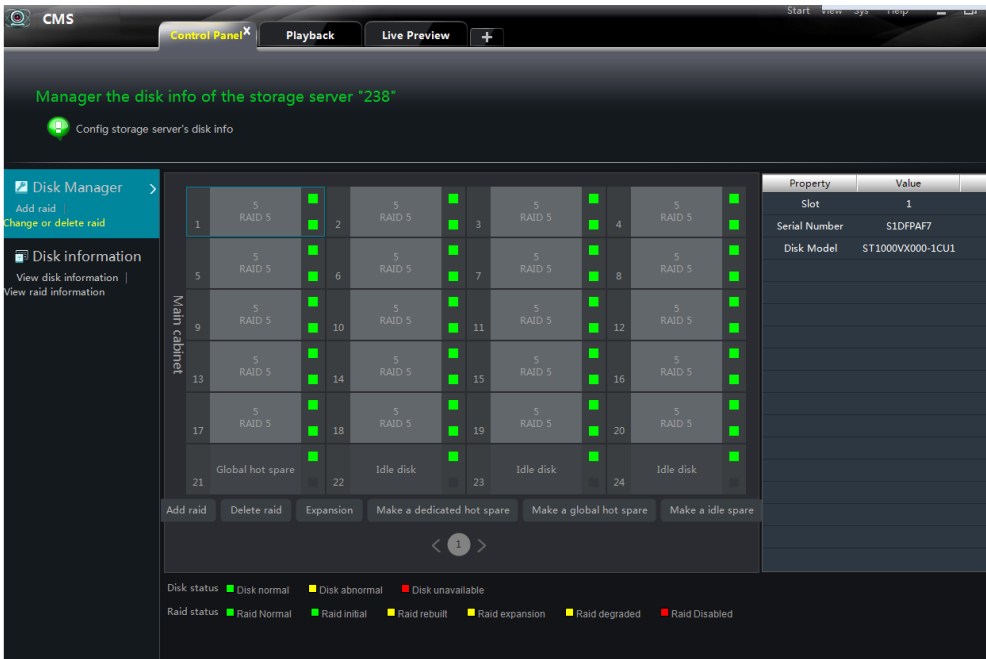


➤ Change Storage Server Password

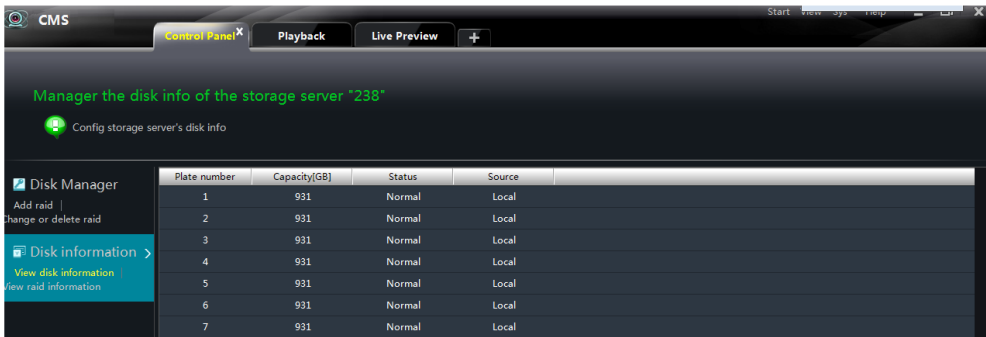
Select “Change Storage Server Password” in “Change the information of this storage server” interface to change the password of storage server. Then click  button to save the change.



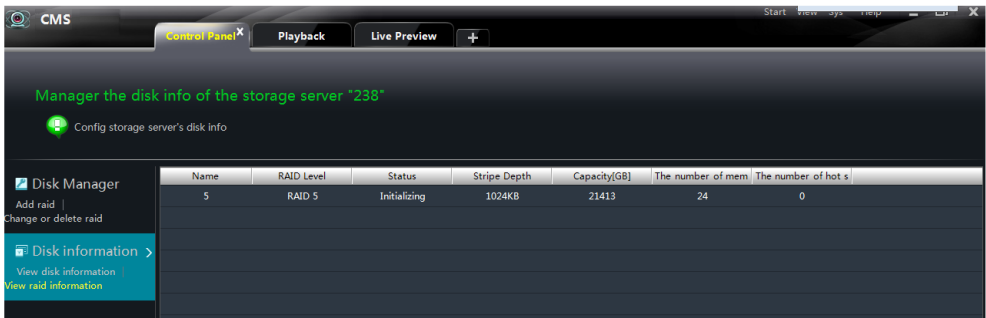
Select a disk in the disk table, the relative properties of the disk will be shown on the right, such as “Slot”, “Serial Number” and “Disk Model”.



Tab “Disk information” on the left of the interface, you can view all disks’ status information.



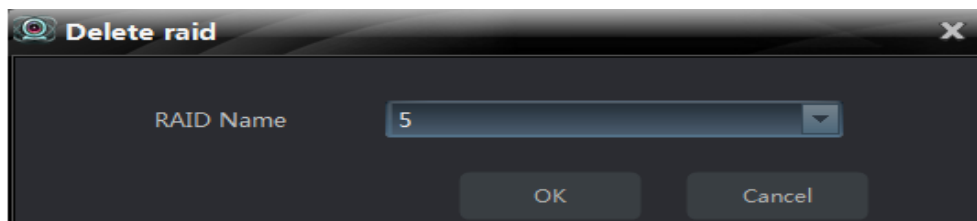
Click “View raid information”, the raid information of disks will be shown on the right.



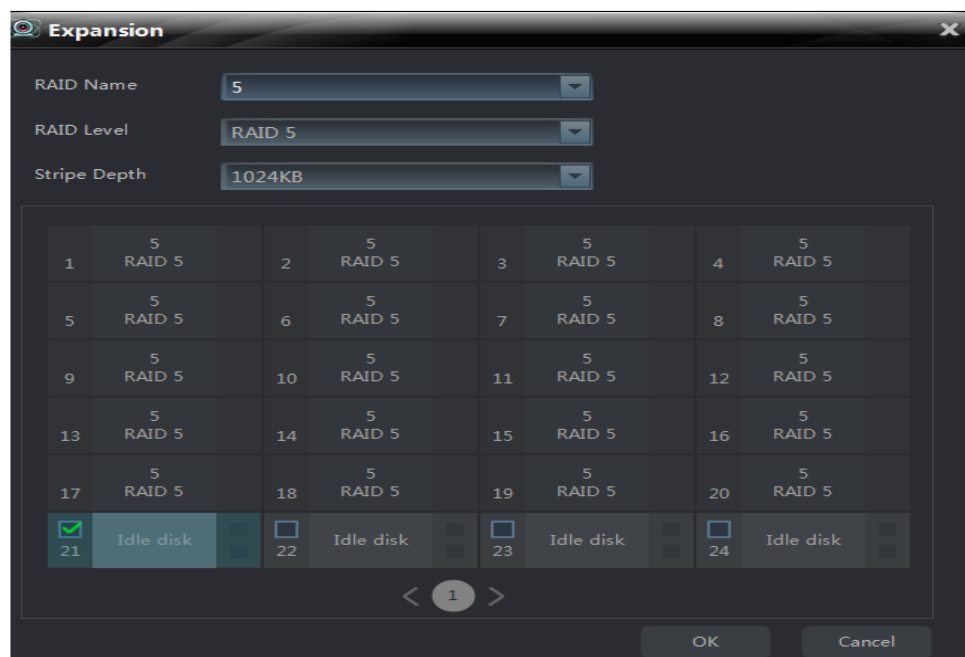
Click **Add raid** button, you can add new raid. Input the raid name, select raid level and stripe depth, click **OK** button to add raid.



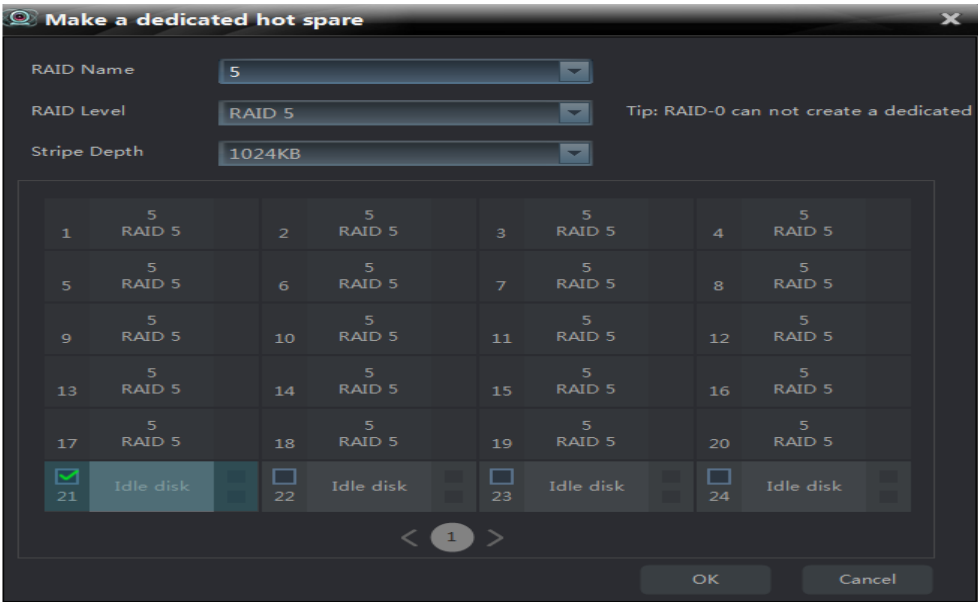
Click **Delete raid** button, select the raid you want to delete, then click OK button to delete it.



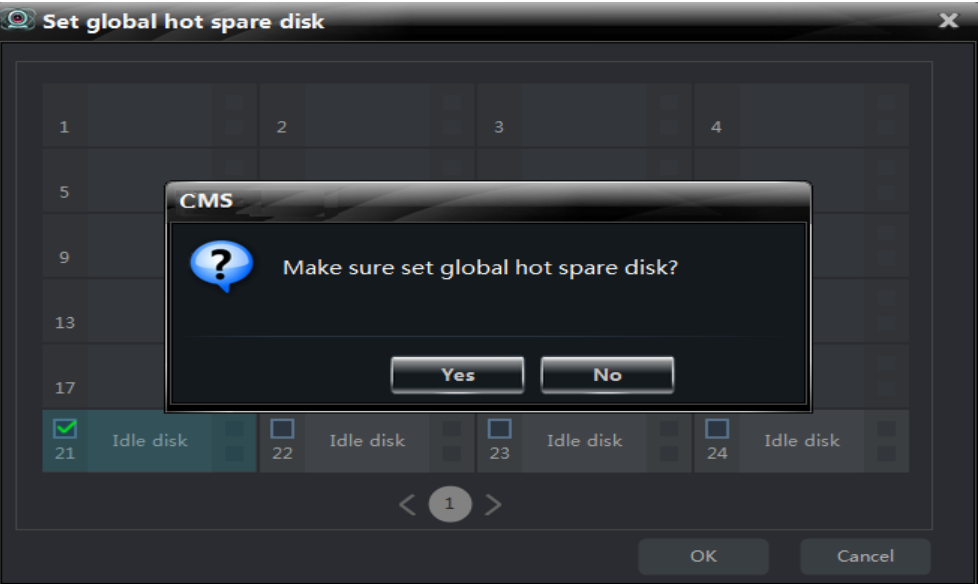
You can do disk expansion by clicking **Expansion** button.



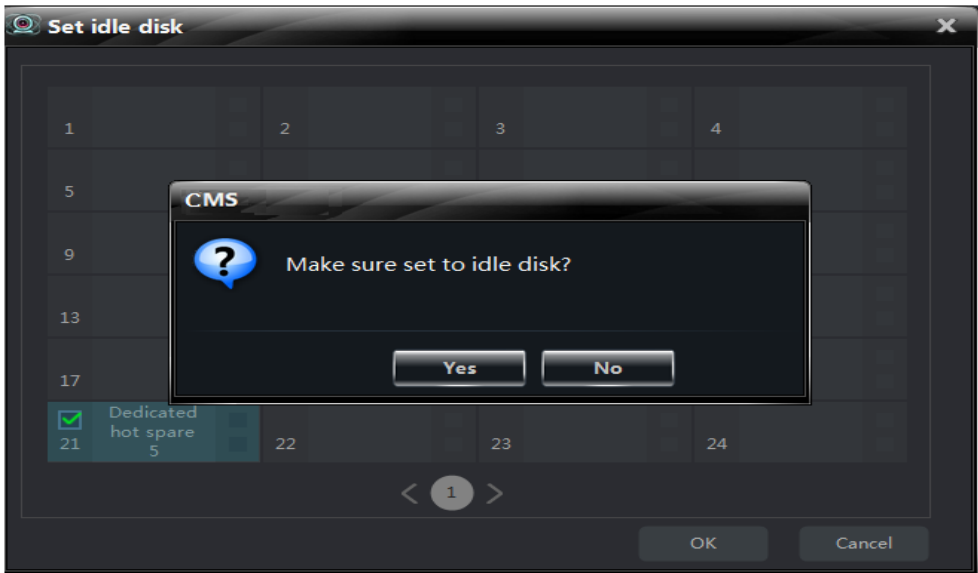
Select a disk, click **Make a dedicated hot spare** button, then input the raid name, select raid level and stripe depth, click **OK** button to make this disk a dedicated hot spare. Disk of RAID-0 level cannot be made a dedicated hot spare.



Select a disk, then click **Make a global hot spare** button, you can make the disk you selected a global hot spare.

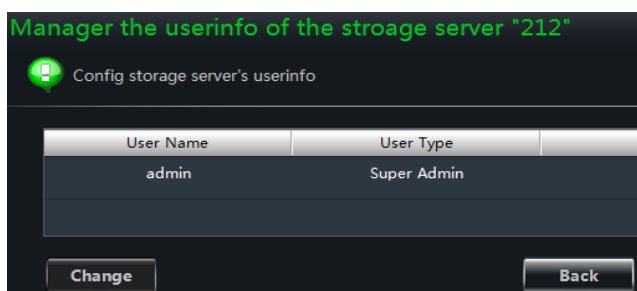


Select a disk, then click **Make a idle spare** button, you can make the disk you selected an idle spare.

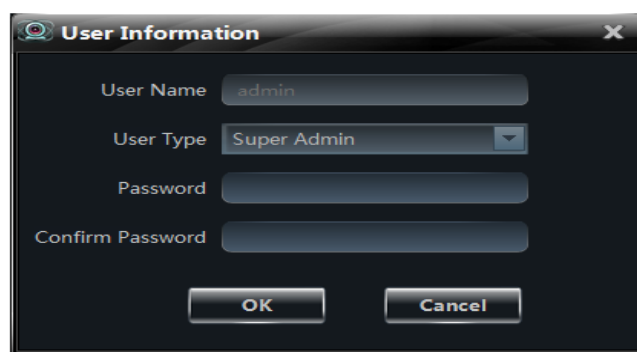


➤ User Manager

Select “User Manager” in “Change the information of this storage server” interface, you can change the user information of storage server.

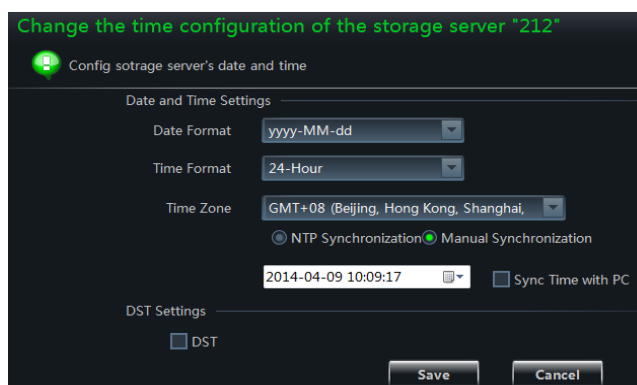


Click **Change** button in “Manager the userinfo of the storage server X” interface, you can modify the username and password.



➤ Time Setting

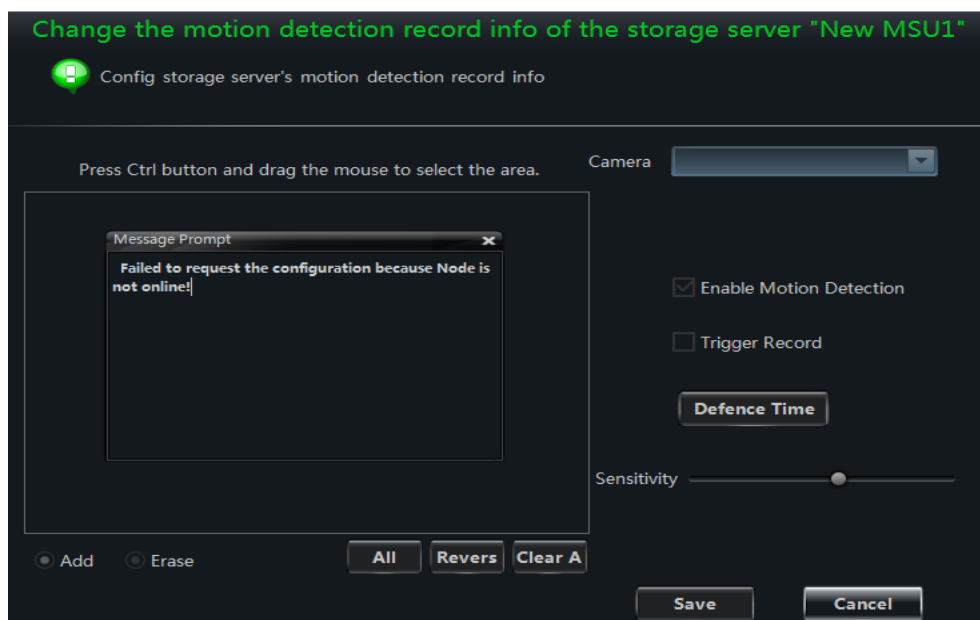
Select “Time Setting” in “Change the information of this storage server” interface, you can change “Date and Time” and “DST” of storage server.



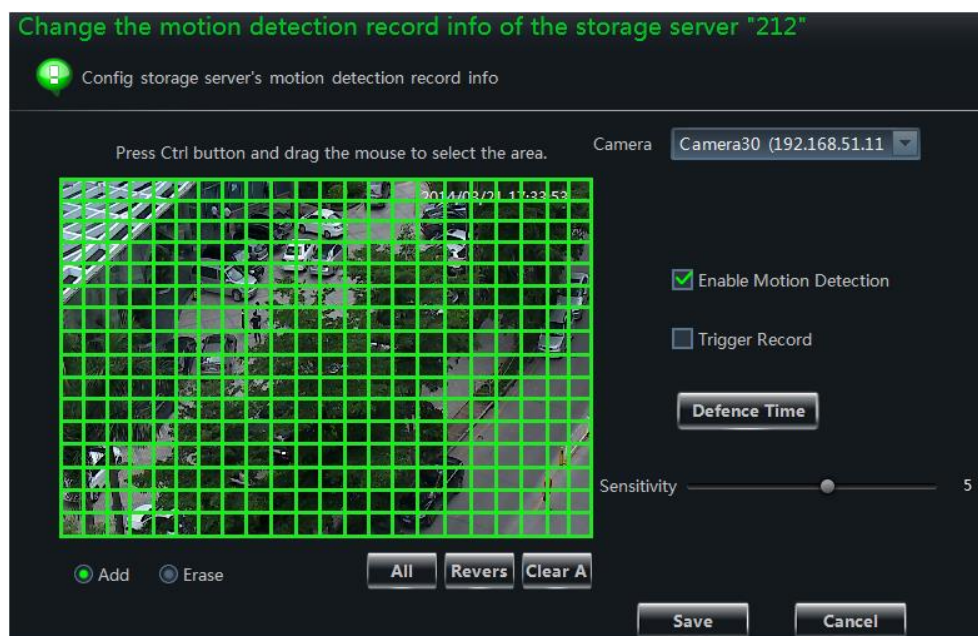
➤ Alarm Record Setting

Select “Alarm Record Setting” in “Change the information of this storage server” interface, you can change the motion detection record setting of storage server.

If the camera is not online, the interface below will show:

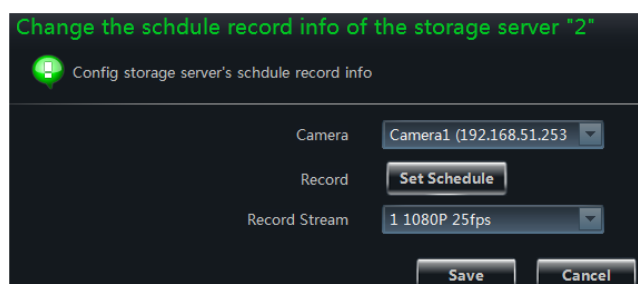


If the camera is online, the interface below will show:



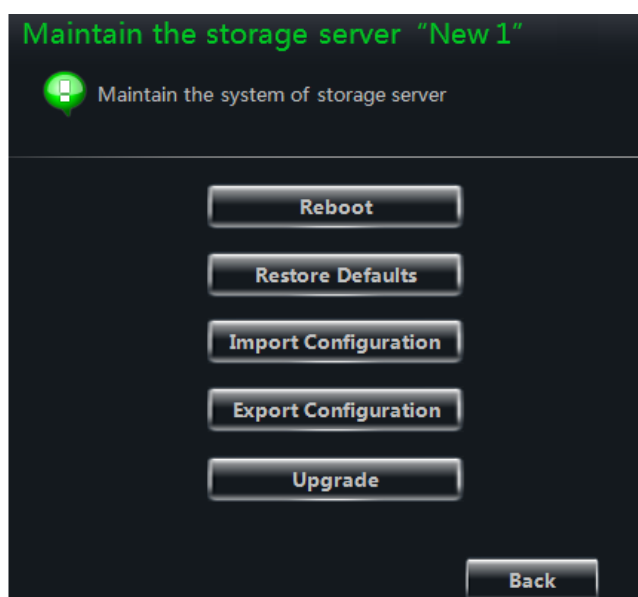
➤ Schedule Record Setting

Select “Schedule Record Setting” in “Change the information of this storage server” interface, you can change the schedule record information of the storage server.



➤ Maintain System

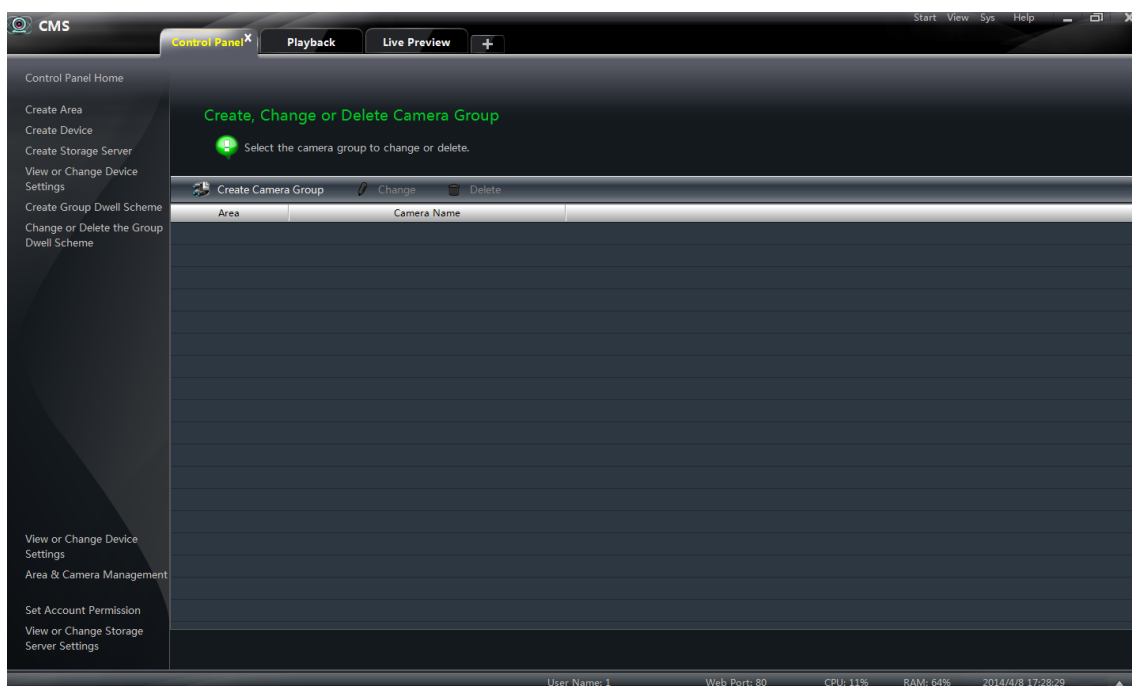
Select “Maintain System” in “Change the information of this storage server” interface, you can maintain the storage server.




5 Group and Scheme Setting


5.1 Camera Dwell Group


In the interface of control panel, click “**Group and Scheme Setting**” to enter the interface. Please refer to the below picture:

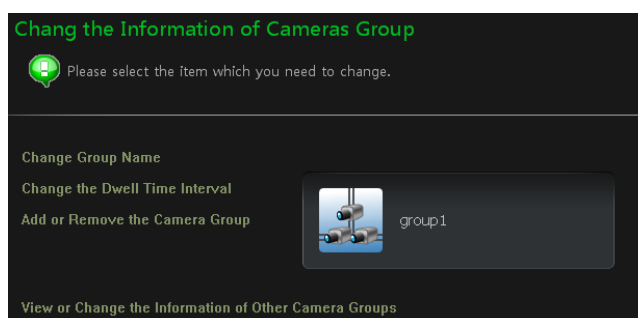


5.1.1 Create, Change or Delete the Camera Group


In the above interface, click  button to create a group.


Select a group in the group list, click  button to delete it.

Select a group and click  button to enter the interface as shown on the right. You can change the group name and dwell time interval in this interface.

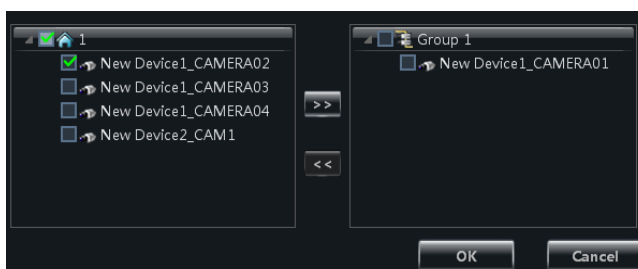


5.1.2 Add or Remove the Camera Group

① Select a group and click  button to enter the interface. Then click “**Add or Remove the Camera Group**” to pop up the window as shown on the right.

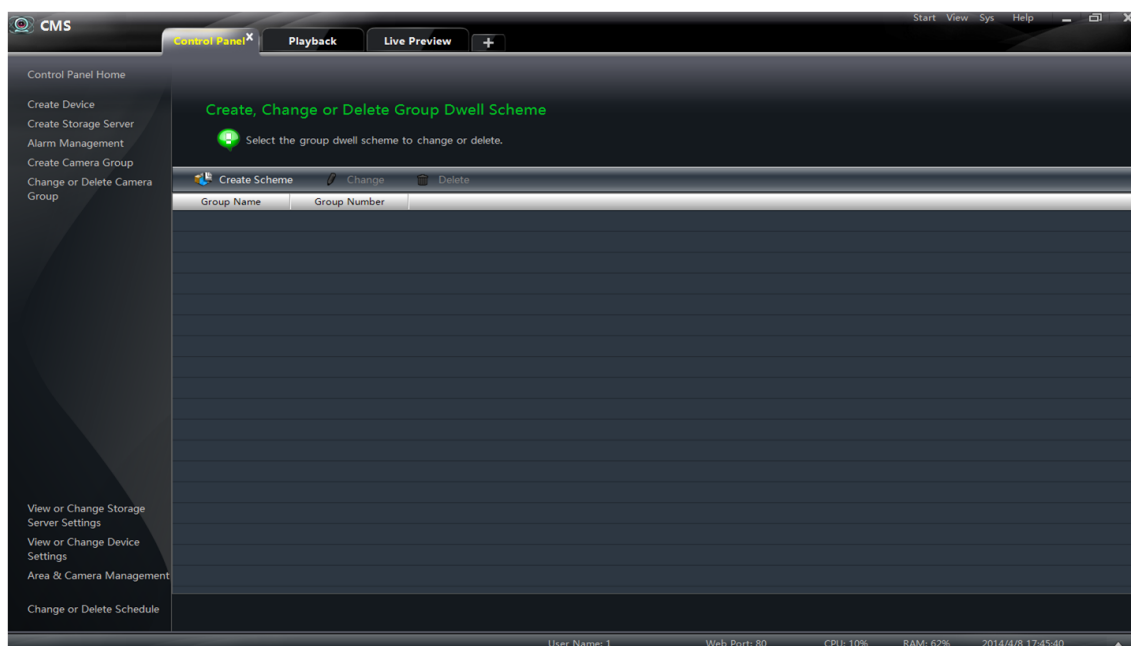
② Check cameras on the left and click  button to add the selected cameras to the group on the right.

③ Check cameras on the right, then click  button to remove them from the group.




5.2 Group Dwell Scheme


Scheme is used for dwelling group by group. Therefore, at least one group should be created. Click **“Change or Delete the Group Dwell Scheme”** on the left side of the menu to enter the interface as below.





5.2.1 Create Scheme



Click  button to create a scheme. You should input the scheme name; select the dwell time interval and group. The added scheme will be displayed in the scheme list.

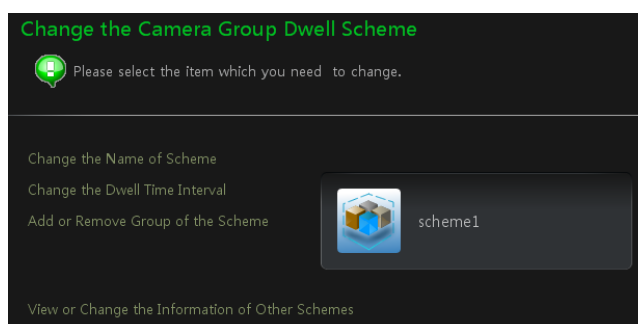
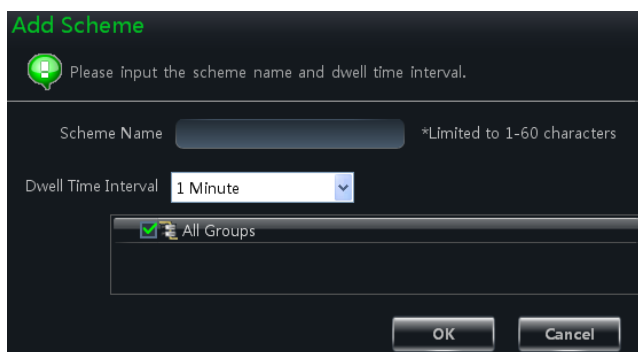
5.2.2 Change and Delete Group Dwell Scheme

Select a scheme in the scheme list, click  button to delete it.

Select a scheme and click  button to enter the interface. You can change the name of scheme and the dwell time interval.

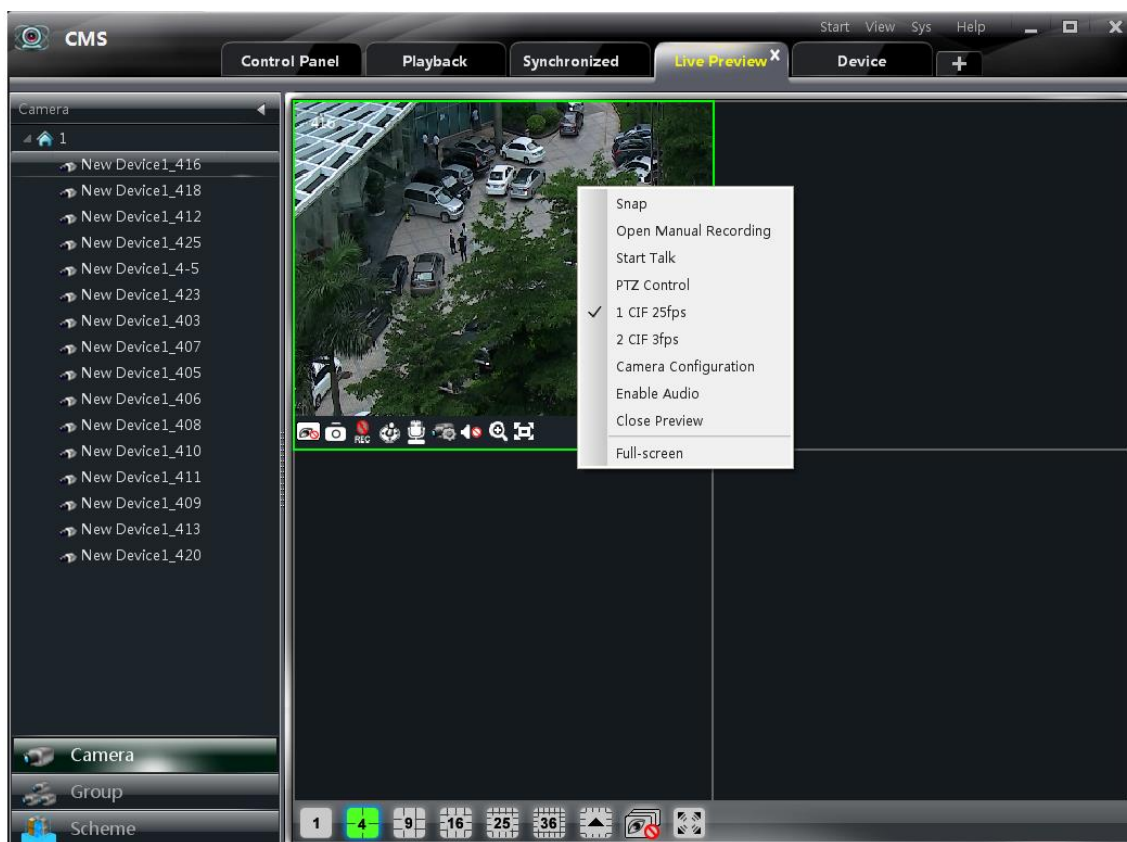
Select a scheme and click  button. Then click **“Add or Remove Group of the Scheme”** to enter the interface.

- Check group on the left and click  button to add the selected group to the scheme on the right.
- Check group under scheme on the right and click  button to remove the group.

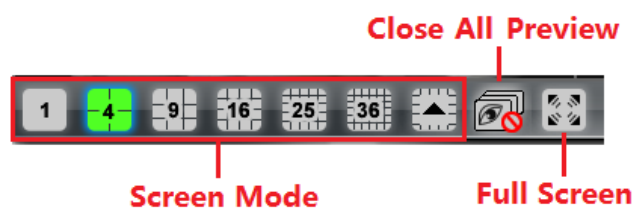


6 Live Preview

In the interface of control panel, click “Live Preview” to enter the interface:



Buttons description of live preview:



Toolbar on the display window:

Icon	Description	Icon	Description
	Close image		Snap
	Start/stop manual record		PTZ control. Clicking the icon will display the control panel of PTZ.
	Start/stop talk		Camera configuration
	Open/close audio		Zoon in
	Fit to window		

Right button functions:

Menu	Description	Menu	Description
Snap	Snap picture	Open Manual Recording	Start manual record
Start talk	Start or stop talk	Camera Configuration	Enter the interface of the area and Camera configuration
Stream	Choose stream to view.	PTZ Control	To display the control panel of PTZ
Enable Audio	Enable or close audio	Close Preview	Close single channel preview
Full Screen	To display in full screen		

6.1 Preview

6.1.1 Monitory Point Preview

To start the live preview, drag the cameras from the list to the right display window or select a window and double-click the camera to display the live image.


You can drag the image to any window at random.

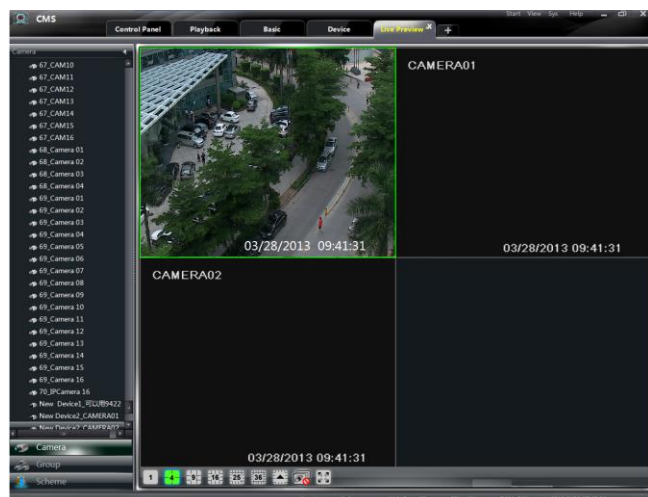
Note: Node unfold rule: After the first time for setting the device and area, you shall obey the following rule to view all tree nodes: when the tree node is more than 64 nodes, the system will unfold the upper node by default.

For example: A (There is camera group AC under A; sub-area a under AC; camera group ac under sub-area a). If the nodes number is more than 64, A will be unfolded and AC will be displayed, but a will not be unfolded and ac will not be displayed. If the node number of A is less than 64, A will be folded and all nodes need to be unfolded manually.

6.1.2 Stop Preview

➤ Close Preview of Channel


Place your mouse on the window to display the menu toolbar, then click  icon to close preview of this channel.

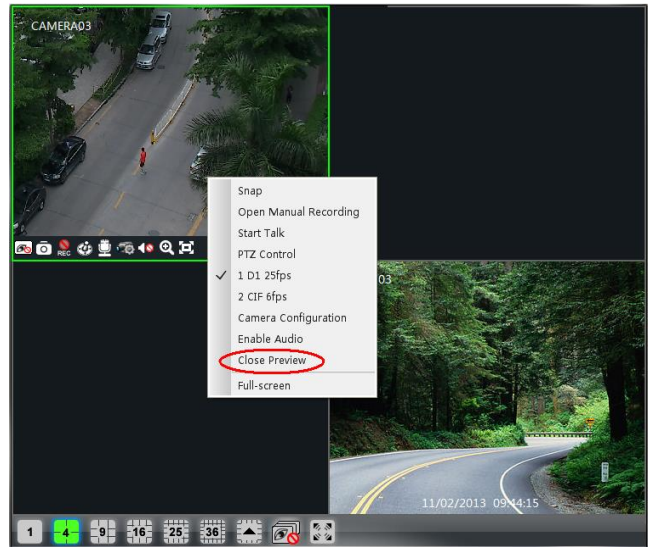


➤ Close Preview by Right-clicking


Choose “*Close Preview*” by right-clicking the display window to close preview of this channel.

➤ Close All Preview

Click  icon on the main menu toolbar to close all the windows.





6.2 Dwell Preview

After setting up group or scheme (Please refer to chapter 4 for creating group), enter to the live preview interface and click  button to display the group list or scheme list. The below sections will introduce how to realize group dwell and scheme dwell.


6.2.1 Group Dwell Preview

➤ Start Group Dwell

In the interface of live preview, click  shortcut on the left side to display the groups, drag a group under scheme to any window ( icon stands for group). The cameras of this group will play one by one on this window at the set time.





➤ Stop Group Dwell

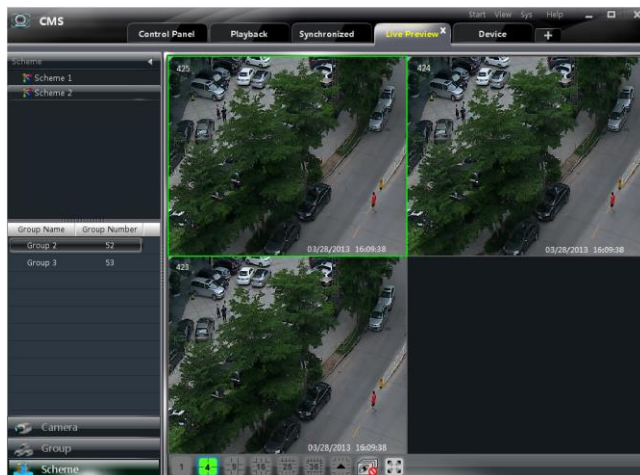
Right click the display window to select “Close Preview” to close preview of this channel or click  icon on the main menu bar to close all windows for stopping dwell.

6.2.2 Scheme Dwell Preview


➤ Start Scheme Dwell

In the interface of live preview, click  shortcut on the left side and then drag a scheme to the right window to dwell ( icon stands for scheme). The screen mode will be distributed automatically according to the number of camera under the group.

Note: To achieve dwell between devices, the device should be as a unit when adding groups. Then add all the groups into one scheme to dwell.




➤ Stop Scheme Dwell

Click  icon to close all the windows for stopping scheme dwell.

6.3 Preview Control

➤ Full Screen


Click  icon on the display window or right-click to choose “Full Screen” to view in full screen. Right click to choose “Exit Full Screen” to exit full screen preview.

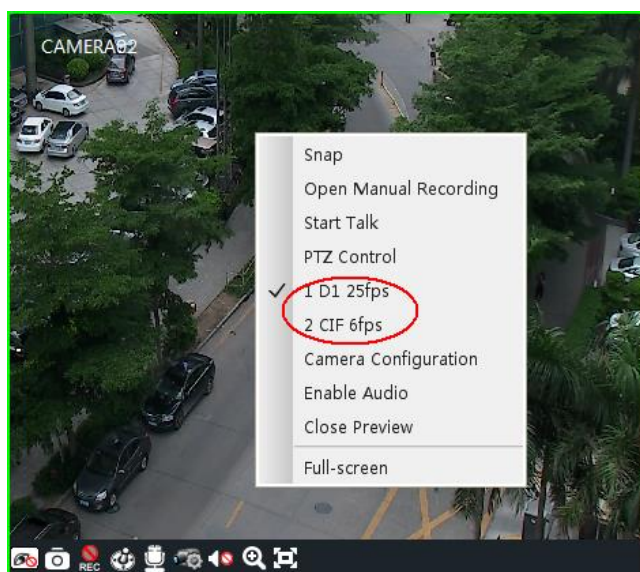
➤ Single Channel in Full Screen

Double click the selected window to view in full screen. Double click again to recover the window.


➤ Stream of Live Preview

Right click on the display window to choose recording stream as shown on the right. The above stream is main stream (eg: D1 25fps) and the below is sub stream (eg: CIF 6fps).

Modify Device Stream: Click  button on the display window to enter the Area and Camera Management interface. Click “**Image Quality**” under Image Setting to modify device stream. Please refer to [section 3.3.2 Image Settings](#) for details.





➤ Audio

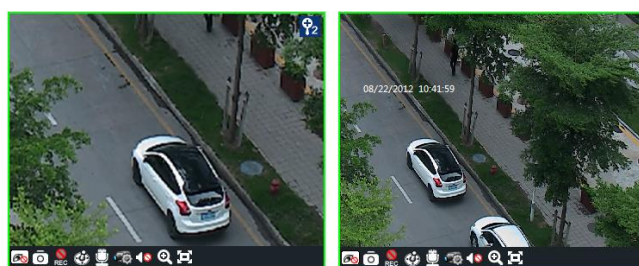
Right click on the displaying window to choose “Enable Audio” or click  icon to enable audio of this channel.

Note: Only one audio can be enabled at the same time. If enabling another channel’s audio, the enabled audio will be closed automatically.




➤ Zoom In

Click  icon on the toolbar in the displaying window to zoom in the image; click  icon to recover the image.

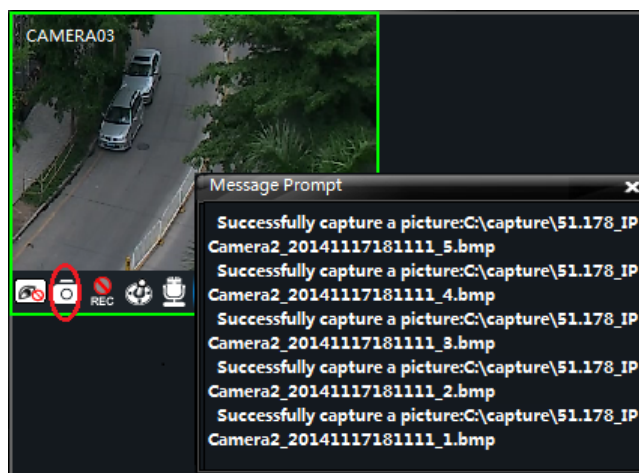


6.4 Snap

6.4.1 Snap

Click  button on the toolbar of the selected channel or right click to choose “*Snap*” to capture the pictures. After snapping pictures, a message prompt box will pop up to remind you the pictures are captured successfully and where the pictures are stored.

Note: Capturing pictures can be realized only in live preview or playback.




6.4.2 Snap Number

In the interface of control panel, click “*Set Snap Default Number*” under **Basic** to configure the number you want to capture every time.

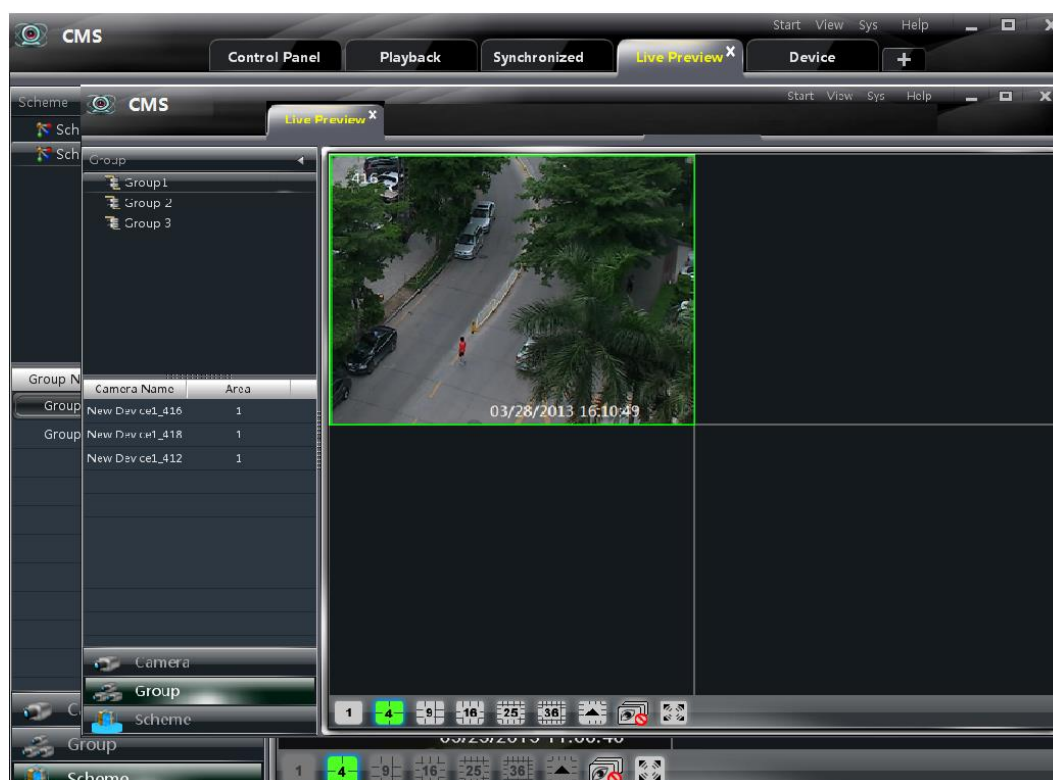
6.4.3 Record and Snap Path


In the control panel, click “*Basic*” to enter the interface. Click “*Partition and Path*” to select a folder to save the record files. Click “*Set the Default Path of Snap*” under Partition and Path to set up the path to save the snap files.

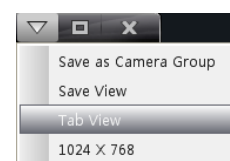
6.5 Multi-screen to Preview

In the interface of live preview, click  button to plus a tab of live preview. Drag any tab of live preview or right click the tab of live preview to select “*Float*” to pop up a independent live

preview interface as below. Multi-screen to display can be realized by dragging the independent interface to other screen (graphics card should support multi-screen output at the same time).




Clicking the  button of the live preview interface to choose “Tab view” can embed this tab in main interface . .



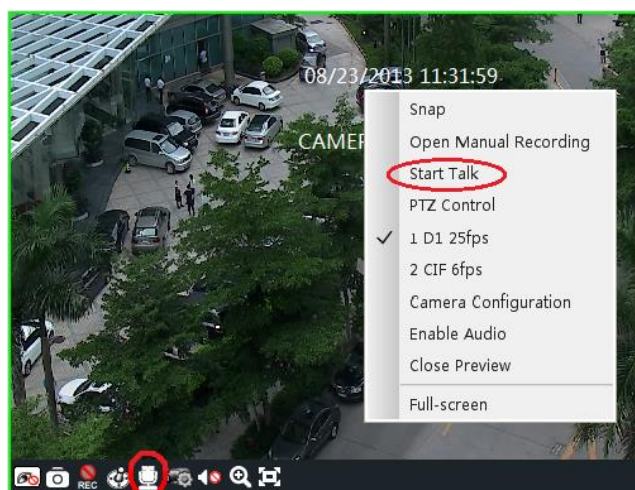
- Note:**
1. 20 live preview tabs can be added.
 2. Live preview interface can be displayed on multiple screens.

6.6 Talk and Broadcast



6.6.1 Talk

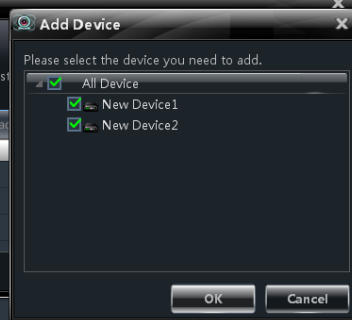
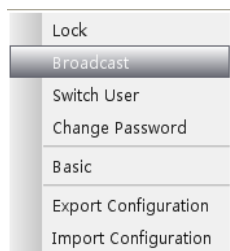
Click  button on display window or right click to pop up a menu bar. Choose “Start Talk” to enable bidirectional audio.

Note: Since CMS only allow opening one device’s talk at the same time, the system will stop talk with the current device for enabling new talk with another device which is launching talk.




6.6.2 Broadcast

- ① Click **“System”** on the menu bar of software at the upper right; choose **“Broadcast”** to enter the interface.
- ② Click  **Add Broadcast Device** button to pop up a window; then check the devices you want to broadcast, click **【OK】** button to save the setting.
- ③ Click  **Start Broadcasting** button to stop broadcast.




6.7 PTZ Control






6.7.1 Parameter Configuration of PTZ

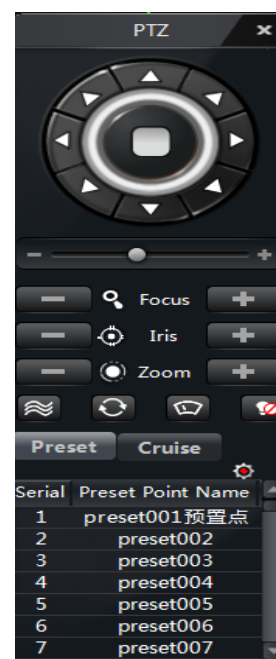
Please confirm the parameter of PTZ has been configured correctly before operating PTZ. Click  icon in display window or **“Change Camera Setting”** under **“Device”** to enter the interface. Click **“PTZ Setting”** to enable PTZ and setup protocol, baud rate and address of PTZ.

Note: Here the protocol, baud rate and address of PTZ must be consistent with the PTZ decoder.

6.7.2 PTZ control

Return to the live preview interface after configuring parameter of PTZ; select the channel and click  icon or right click to choose **“PTZ Control”** to open the control panel of PTZ.



- Click the direction buttons to control its rotational direction; drag the slider to control its speed.
- Click  and  buttons to adjust focus, iris and zoom.
- Select a preset point and click  to operate this preset point or double click the preset point to operate it.
- Click **【Cruise】** button to list the cruises. Select a cruise and click  button to cruise; click  button to stop cruising. PTZ can also support track, auto scan, wiper and light function.



7 Record Management

CMS supports manual record, schedule record, motion detection record and sensor alarm record. This chapter will introduce the above four record types respectively.

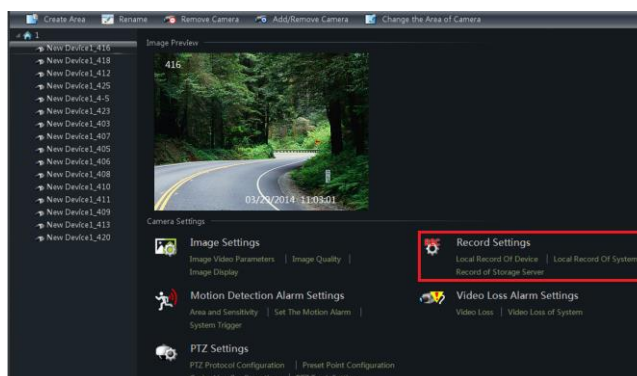
7.1 Manual Record

Select a channel and click  button or right click to choose “Open Manual Recording” to start recording. Then click  button or right click to choose “Close the Manual Recording” to stop recording.

Note : If a channel is recording, closing preview will give rise to stopping it.

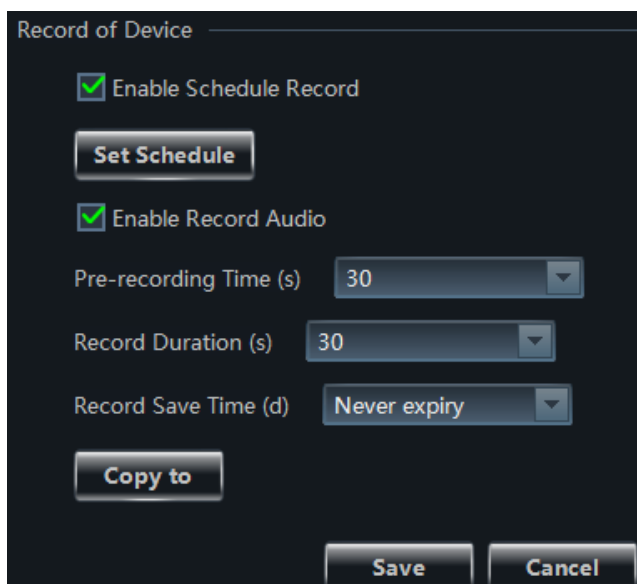
7.2 Schedule Record

In the control panel, click “*Change Camera Settings*” under Device to enter the interface.



Select a camera and click “*Local Record of Device*” as shown on the right figure.

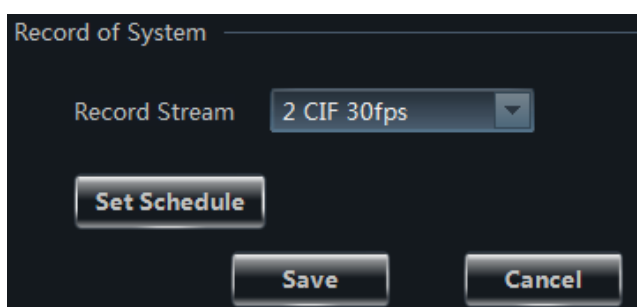
Enable Schedule Record and set schedule and pre-recording time, record duration, etc.



Click “*Local Record of System*” as shown on the right figure.

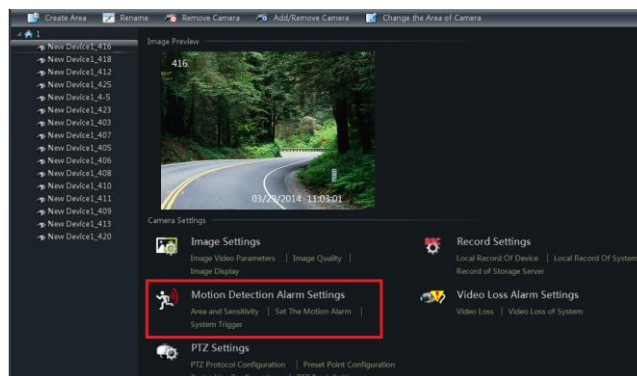
Under record of system, you can choose record stream and set record schedule.

Note: Please refer to [section 3.2.2](#) for details.



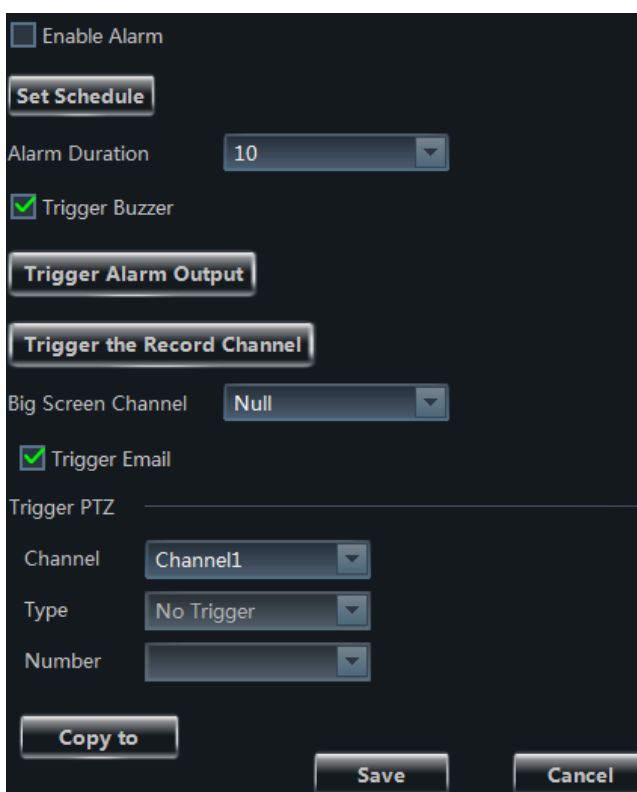
7.3 Motion Detection Record

In the control panel, click **“Change Camera Settings”** under Device to enter the interface.



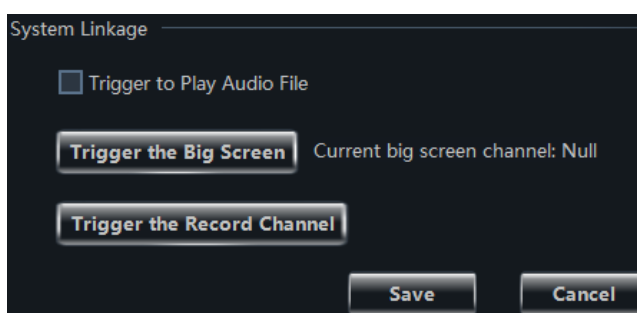
Select a camera and click **“Set Motion Alarm”** under Motion Detection Alarm Settings as shown on the right figure.

Enable Alarm of device and set the relevant trigger.



Click **“System Trigger”** under Motion Detection Alarm Settings as shown on the right figure.

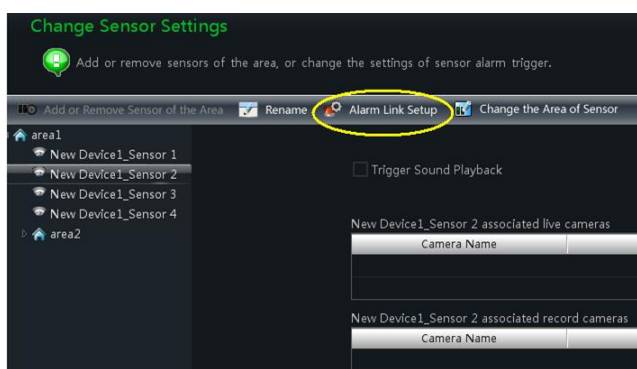
Click **Trigger the Record Channel** button to select channel. The selected channel whose motion detection alarm is triggered will be recorded automatically.




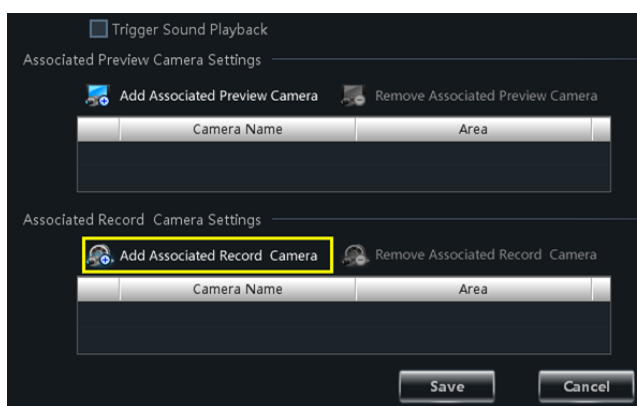
7.4 Sensor Alarm Record

In the control panel, click **“Change Camera Settings”** under Device to enter the interface.

Select a sensor and click **Alarm Link Setup** button as shown on the right.



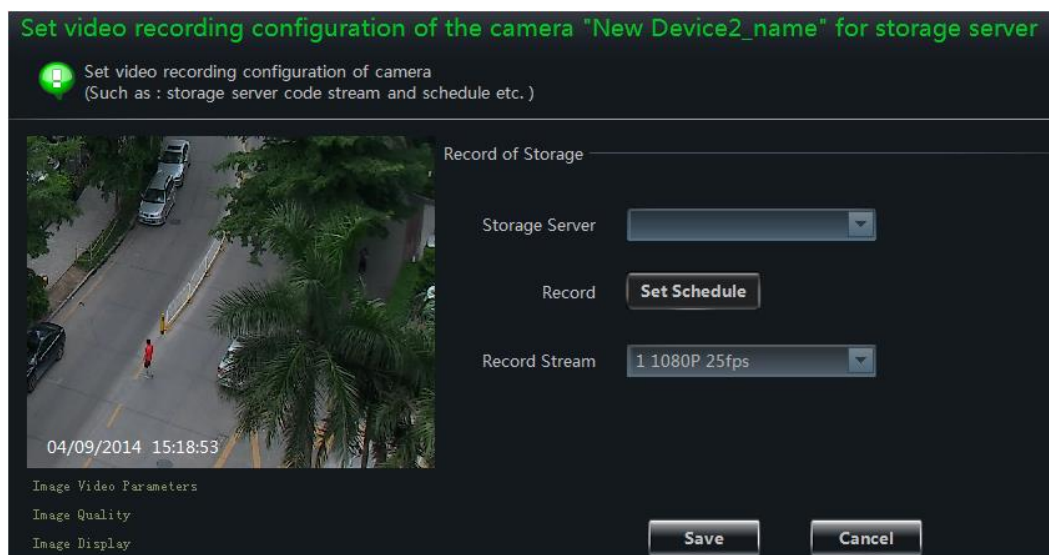
Click  button to choose associated record cameras. When the sensor alarm is triggered, the selected cameras will be recorded automatically.



7.5 Storage Server Record

In the control panel, click “Change Camera Settings” under Device to enter Area & Camera Management interface, shown in [Section 7.2](#).

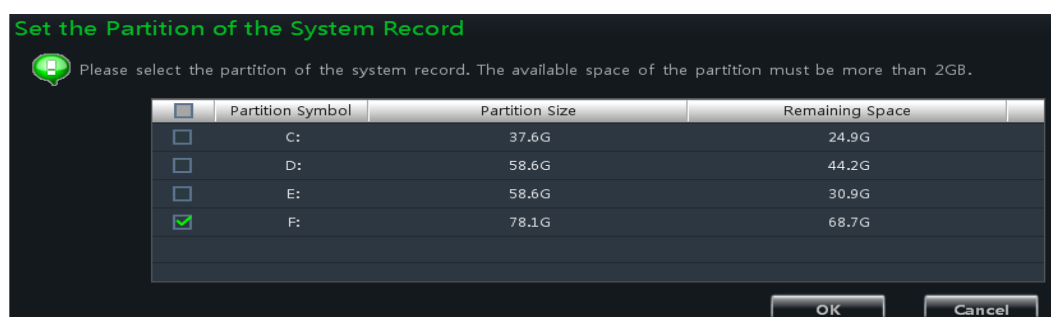
Select a camera you want to setup, click “Record of Storage Server” under Record Settings to enter the interface as follows:



In this interface, user can setup the record of storage server. First, choose the storage server you want to record, then setup the record schedule, please refer to [section 3.3.2](#) about how to setup schedule, then set the record stream, click **【Save】** button to save the settings.

7.6 Set Record Partition

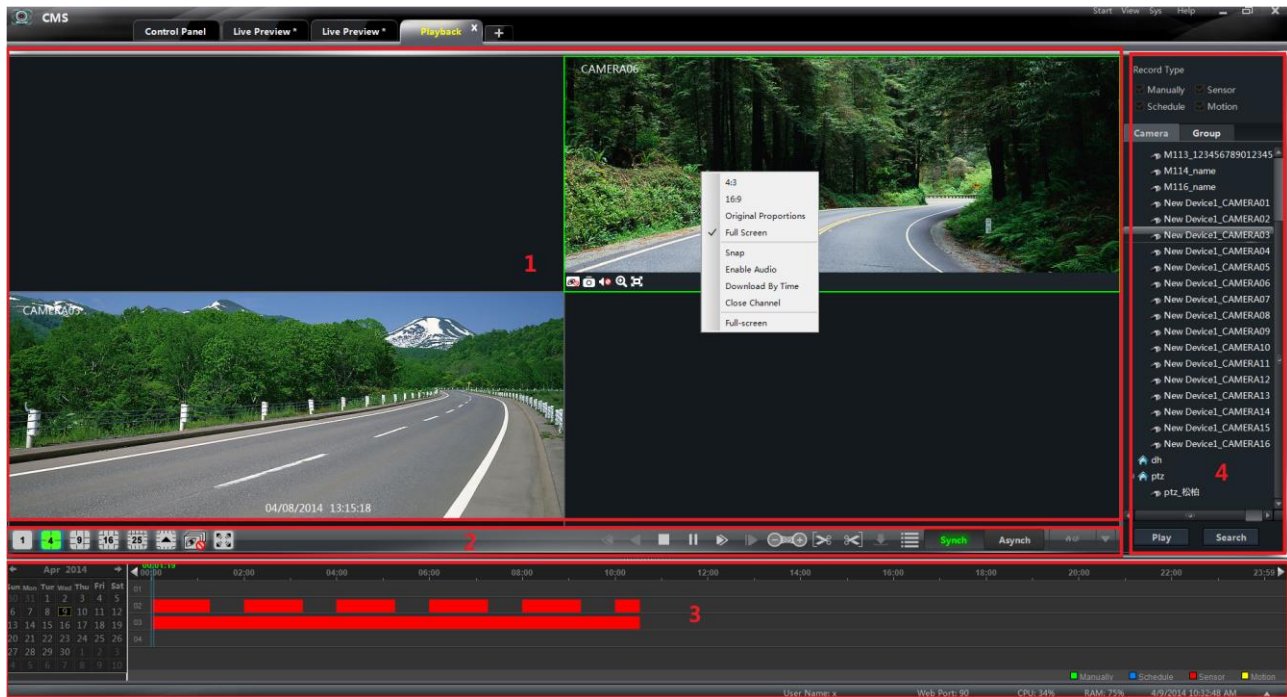
As the new video data getting more and more till it takes up all the partition space, to write data circularly, the new data will overwrite the old data. If you do not want the old data to be overwritten, you should change the record partition of the new data. In the control panel, click “***Set Record Partition***” under Playback as below. You can choose a partition for storing record.



8 Playback Management

In the interface of control panel, click “Playback” to enter the interface. You can play back the local stored record files.

Record playback interface has two types, one is synchronous, the other is asynchronous. Here we take the synchronous interface as an example.



Area Descriptions:

Area	Description	Area	Description
1	Playback Area	2	Toolbar
3	Record time Area	4	Resources Area, Time search or type search Area

Toolbar on Playback Window:

Icon	Description	Icon	Description
	Close playback		Snap
	Open/close audio		Zoom in
	Fit to window		


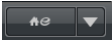
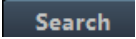


Buttons Description of Area 2

Icon	Description
	Screen mode. 1,4,9,16,25 channels are optional, you can get more screen mode by clicking
	Close playback of all channels
	Full screen
	Retreat (Not support right now)
	Play backwards (Not support right now)
	Stop
	Pause
	Playback speed bar
	Playback by single frame. When playback, click button firstly and then click this button to play frame by frame.
	Forward 30s or backward 30s
	Backup the start time
	Backup the end time
	Download
	Event list. Click this button to pop up the event list
	Record playback model, synchronous or asynchronous
	Playback source setup, it can be set as local playback\remote playback\all playback. By clicking there will be a drop-down menu, in the menu, you can choose the playback source, stands for local playback, stands for remote playback, stands for all playback.

Right button functions:

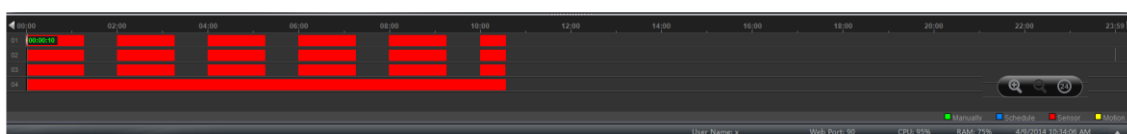
Menu	Description	Menu	Description
4:3	4:3 proportion	16:9	16:9 proportion
Original Proportions	Recover to the original proportion	Full Screen	Full screen mode
Snap	Snap picture	Enable Audio	Enable or close audio
Download By Time	To download record by time search	Close Channel	Close single channel preview
Full-Screen	To display in full screen		




8.1 Playback

In the playback interface, select date, record type and the record storage location, the way to setup image storage location is: click  button in  on the toolbar of record playback interface, choose the location in the drop-down menu, to see the meaning of the icon in the menu please refer to the toolbar introduction above. Then drag the camera to the right display window for playing. You can click  button to search the record file, then click  button or  button to playback.


Playback Record type includes manual record, motion detection record, schedule record, and sensor record.

In the timeline, green bar stands for manual record data; yellow bar stands for motion record data; blue bar stands for schedule record data; red bar stands for sensor record data.

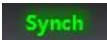
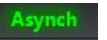


You can zoom in the time scale by clicking  on the lower right corner; zoom out the time scale by clicking ; recover the time scale to 24 hours by clicking . When the time scale is zoomed in, you can drag the timeline to see the time spots.


8.1.1 Playback Synchronously

By clicking  on the toolbar in the interface of record playback, you can switch the playback mode to synchronous mode. The synchronous playback interface is shown above.

The meaning of synchronous playback is: in a certain time, all channels playback its record at the same time spot together, if one channel has no record data at this time spot, then this channel will be waiting.

When switched to synchronous playback interface, you can select the date, record type and record storage location, then you can play the record data according to the ways introduced in [section 7.1](#). In synchronous mode, one camera can only have one play window, so we can view all cameras' record information at the same time. When playing record file in synchronous mode or asynchronous mode, clicking  or  will be useless, only if you close all the playback window.

8.1.2 Playback Asynchronously

By clicking  button you can switch play mode to asynchronous mode. The asynchronous interface is as follows:



The meaning of asynchronous playback is : when playing some channels' record at the same time, each channel is independent from the others and each channel's playback time can be different.

When switched to asynchronous playback mode, you can select the date, record type and record storage location, then you can play the record data according to the ways introduced in [section 8.1](#).

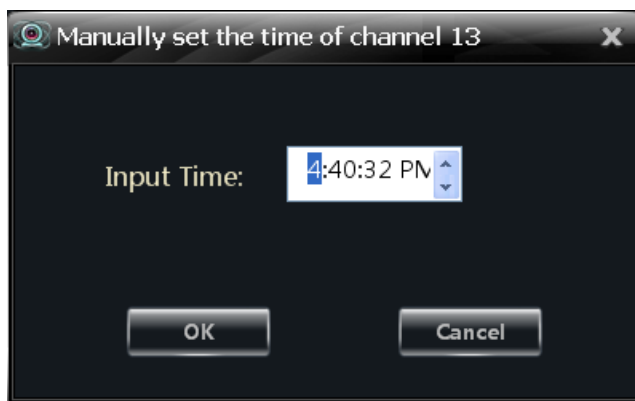
Note:

Asynchronous mode: remote playback and all playback source, due to the remote channel number restriction, generally one recorder can only playback up to 4 channels' record at the same time.


Synchronous mode: remote playback and all playback source, in this mode, it has no restriction in the playback channel number of one recorder at the same time, for example, a 16 channels' DVR can playback 16 channels' record at the same time.


8.1.3 Playback by Setting Time

Right click the color bar to select ***“Play time precise positioning of the channel X”***, then a dialog window pops up. Input time manually or click ▲ ▼ button to select time. The system will play the video from the time you set.



8.1.4 Playback by Searching Event

Click  button to display the event list. Double click an event to play this event record.


Note: By clicking the timeline, you can choose a more accurate playback time. What's more, you may also change playback speed by dragging  bar.

8.1.5 Playback by Record Player

If your system has installed the previous version of CMS and you need to install the latest version, a prompt which telling you that you need to backup the video data of the previous version will show if the previous version has not been uninstalled before you install the new version. After successfully backup, you should uninstall the previous version manually and then install the new version. After you successfully installed the previous version, the icon of CMS and Record Player will show on the PC desktop. The Record Player is used to play the record data of previous version. The Record Player is useful for v2.1.5 only.




If you uninstall the previous version before you backup the record data, the Record Player will not show after you install the new version of CMS successfully.

8.2 Snap When Playback

Click  button on the playing window to capture pictures. A message prompt will pop up after snapping.

8.3 Clip and Backup Record

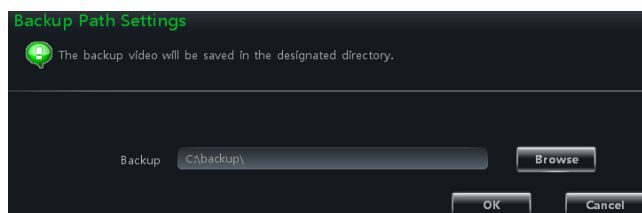
8.3.1 Clip and Backup Record

When playing back record file, click  button to set the start time; click  button to set the end time. then click  button to download the video files within the configured time.

Note: The default path is C:\\backup.

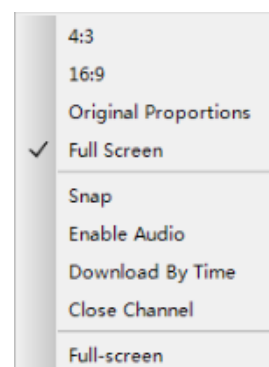
8.3.2 Backup Path Configuration

In the control panel interface, click **Basic** to enter the interface. Then click **“Backup Path Settings”** to choose path to save.

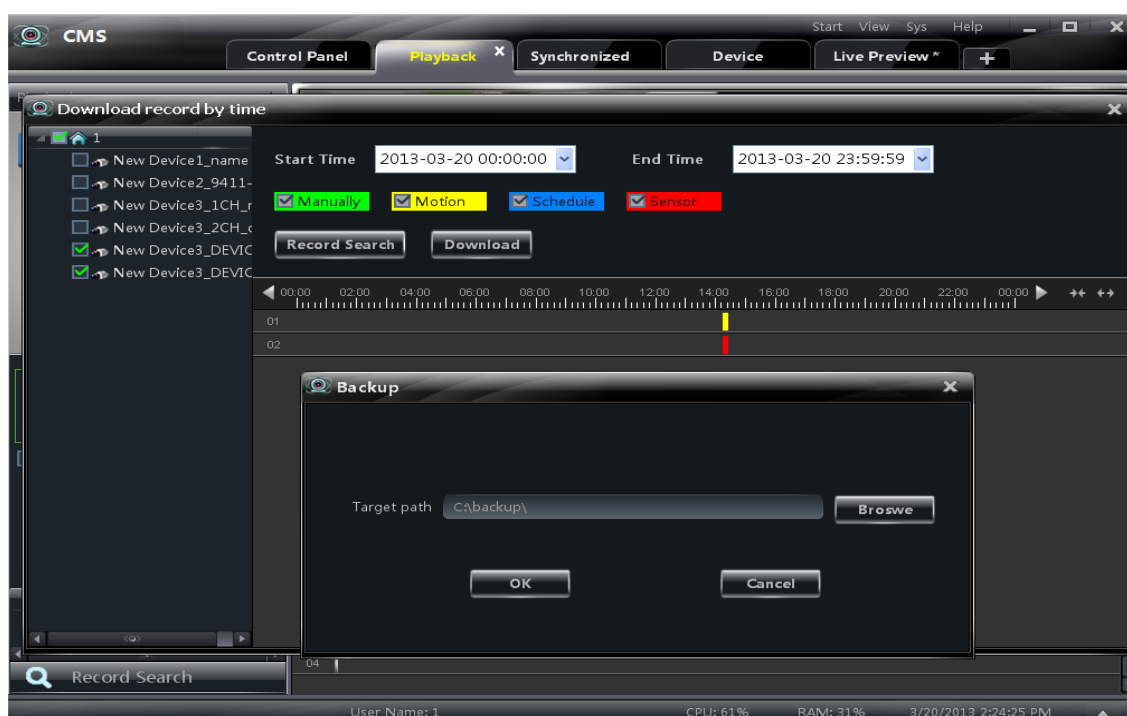


8.4 Download Record By Time Search

Right click the image in the playback interface to pop up a drop-down list as shown on the right.



Click “*Download By Time*” to pop up a window as follows:



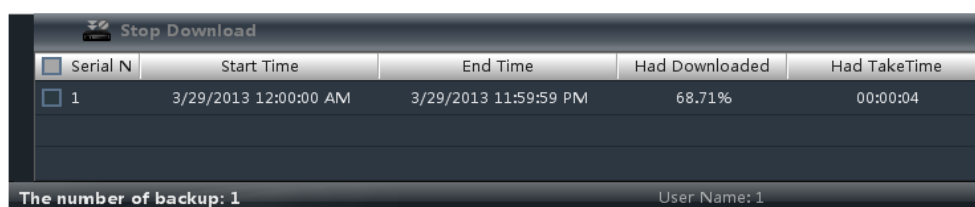
Select record channel, start time and end time, checkmark event type and then click **Record Search** button to search record information. After the information is searched, a backup information window will pop up by clicking **Download** button. Click **Browse** button to choose save path. Then click **OK** button to download record.

8.5 Download Record by Event Search

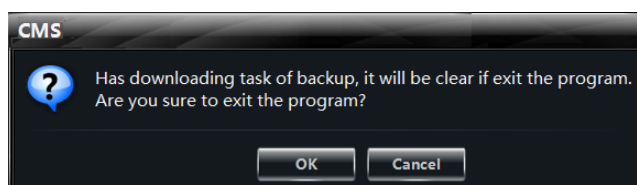
Click  button to display event information list. Choose a event and right click to download this event.

8.6 View the Progress of Downloading

When starting downloading, you can view the progress of downloading and stop downloading manually by put the cursor on the lower right corner.



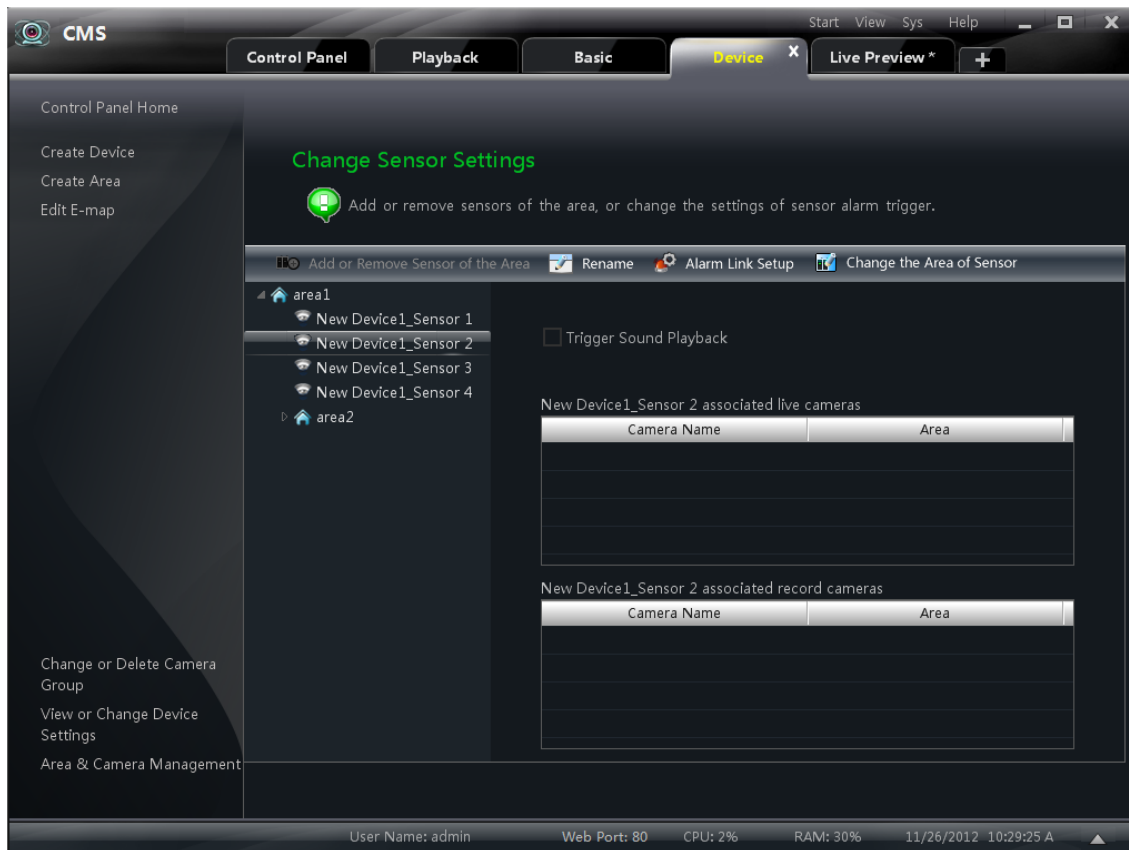
When a backup task is going, if you exit the software, a pop-up will be shown: “Has downloading task of backup, it will be clear if exit the program. Are you sure to exit the program?”




9 Alarm Management



9.1 Sensor Alarm

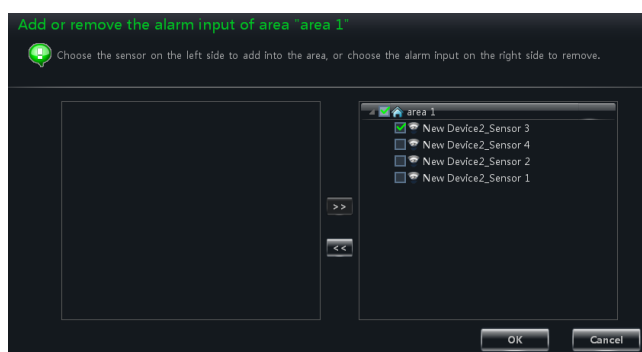
In the control panel, click “**Alarm Management**” to enter the interface.




➤ Add or Remove Sensor of the Area

In the interface of Alarm Management, choose an area, click  button to enter the interface.

- ① Check the sensor under the area on the right and click  button to move out the sensor.
- ② Check the sensor on the left and click  button to add sensor.



➤ Rename or Change Area

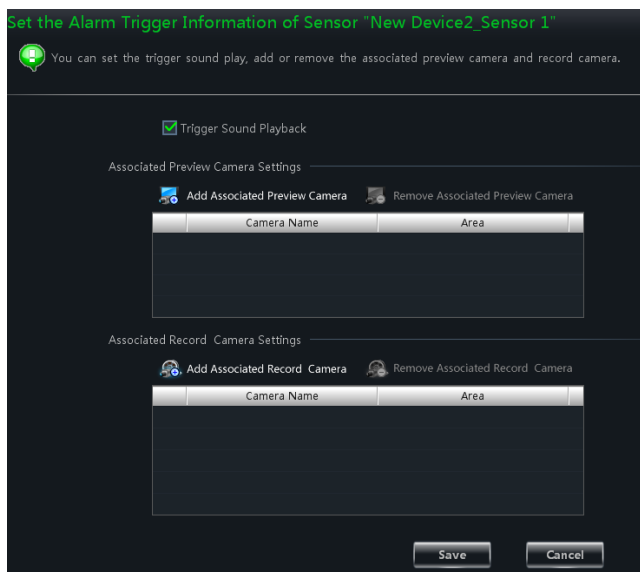
In the interface of Alarm Management, choose a sensor and click  button to change its name;

Click  button to change the area of sensor.



➤ Alarm Link Setup

In the interface of Alarm Management, choose a sensor and click  button to enter the interface.



If checking **“Trigger Alarm Playback”**, there will be a sound like “beep” when sensor alarm is triggered.



◆ Add Associated Preview Camera

Click  to pop up a window; check cameras and click **【OK】** button to save the setting. When sensor alarm is triggered, the alarm preview and e-map preview will pop up automatically. Select the added camera, click  to remove the camera.

◆ Add Associated Record Camera

Click  to enter the interface; check the associated cameras and click **【OK】** button to save the setting. When the sensor alarm is triggered, the selected channels will be recorded automatically. Select the added camera, click  to remove the camera

9.2 Motion Detection Alarm

In the control panel, click **“Change Camera Settings”** under Device.

Select a camera and click **“Area and Sensitivity”** to enter the interface as below. You can adjust the detection sensitivity and setup the motion area.



Click “*Set the Motion Alarm*” to enter the interface as right.

The screenshot shows a configuration window for motion alarm settings. At the top, there is an unchecked checkbox for 'Enable Alarm'. Below it is a 'Set Schedule' button. The 'Alarm Duration' is set to 10 in a dropdown menu. A checked checkbox for 'Trigger Buzzer' is present. Below that is a 'Trigger Alarm Output' button, followed by a 'Trigger the Record Channel' button. The 'Big Screen Channel' is set to 'Null' in a dropdown menu. A checked checkbox for 'Trigger Email' is shown. The 'Trigger PTZ' section contains three dropdown menus: 'Channel' set to 'Channel1', 'Type' set to 'No Trigger', and 'Number' which is empty. At the bottom, there are three buttons: 'Copy to', 'Save', and 'Cancel'.

Click “*System Trigger*” to enter the interface as shown on the right.

Note: Please refer to [section 3.3.2](#) for details.

The screenshot shows a configuration window for system linkage. It starts with an unchecked checkbox for 'Trigger to Play Audio File'. Below this is a 'Trigger the Big Screen' button, with the text 'Current big screen channel: Null' to its right. Below that is a 'Trigger the Record Channel' button. At the bottom, there are 'Save' and 'Cancel' buttons.

9.3 Video Loss Alarm

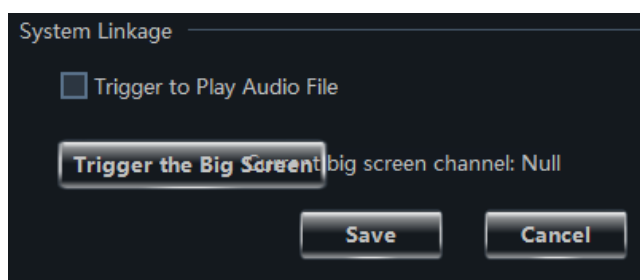
In the control panel, click “*Area & Camera Management*” under Device.

Click “*Video Loss*” to enter the interface. The steps of configuring video loss are same with the device setting; please refer to the video loss chapter of device user manual.

The screenshot shows a configuration window for video loss alarm. It features a checked checkbox for 'Trigger Buzzer'. Below it is a 'Trigger Alarm Output' button. The 'Big Screen Channel' is set to 'Null' in a dropdown menu. There is an unchecked checkbox for 'Trigger Email'. The 'Trigger PTZ' section includes three dropdown menus: 'Channel' set to 'Channel1', 'Type' set to 'No Trigger', and 'Number' which is empty. At the bottom, there are three buttons: 'Copy to', 'Save', and 'Cancel'.

Choose a camera and click “*Video Loss of System*” to enter the interface.

Please refer to [section 3.3.2](#) for details.




9.4 Alarm Preview

The interface of alarm preview will automatically pop up if the relevant alarm page and alarm preview have been already configured.

9.4.1 Alarm Preview Configuration

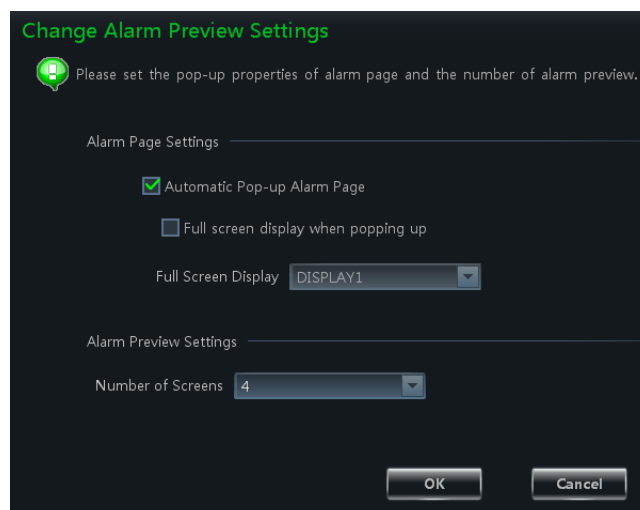
■ **Motion Detection Alarm:** In the control panel, click “*Change Camera Settings*” under *Device* to enter the interface. Select a camera, and then click “*System trigger*” shortcut under Motion Detection Alarm Settings to appear a window; click **【Trigger the Big Screen】** button under system linkage to select channel.

■ **Video Loss Alarm:** Click “*Video Loss of System*” to enter the interface; click **【Trigger the Big Screen】** button under System Linkage to select channel.

■ **Sensor Alarm:** In the control panel, click “*Alarm Management*” to enter the interface. Click  button to add the associated preview cameras.

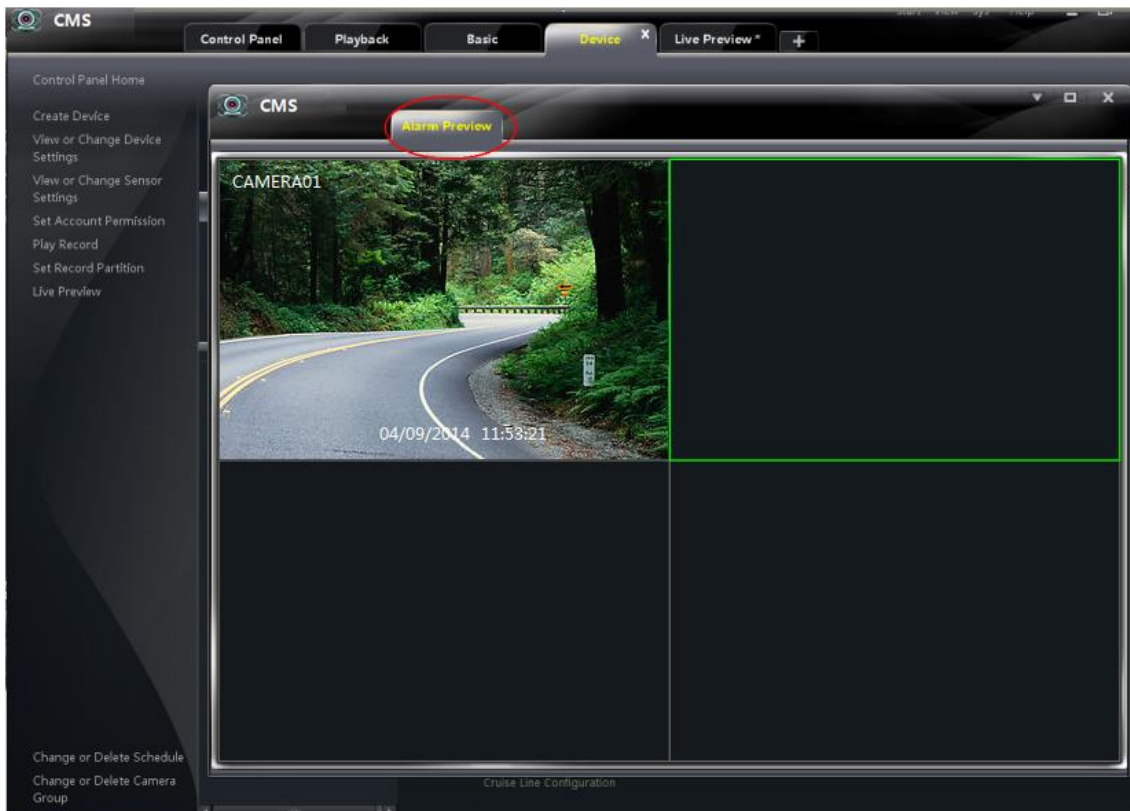
In the control panel, click “*Change Alarm Preview Settings*” under Live Preview to pop up the window.


- ① Alarm preview will pop up automatically when alarm is triggered if checking “Automatic Pop-up Alarm Page”.
- ② Alarm preview will pop up automatically in full screen when alarm is triggered if checking “Full Screen Display When Popping Up”.
- ③ Choose a display monitor from the “Full Screen Display” drop-down menu. The alarm image will display on the designated monitor when alarm is triggered.
- ④ Choose the number of screen.

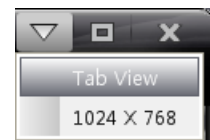


9.4.2 Alarm Preview

After configuring the alarm, the alarm preview will automatically pop up if the alarm of selected channels is triggered. The default pop-up window of system is independent interface. Please refer to the below figure.



Click  button on the upper right corner of the sub interface; then select “**Tab View**” to embed the sub interface in the main interface.



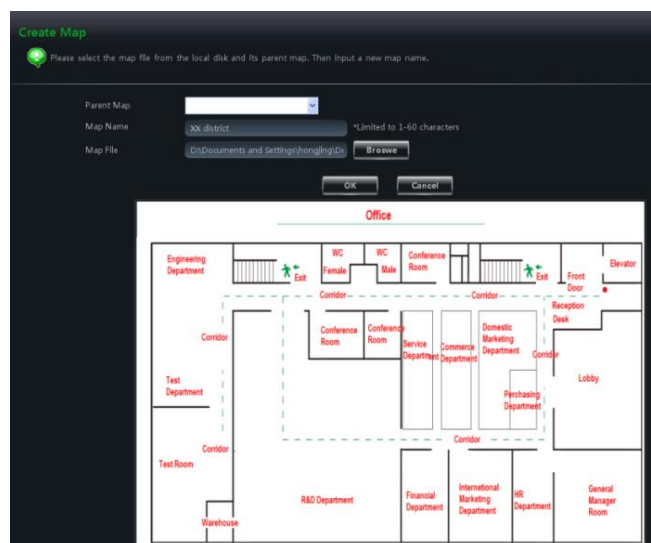
10 E-Map

In the control panel, click “E-Map” to enter the interface as below:



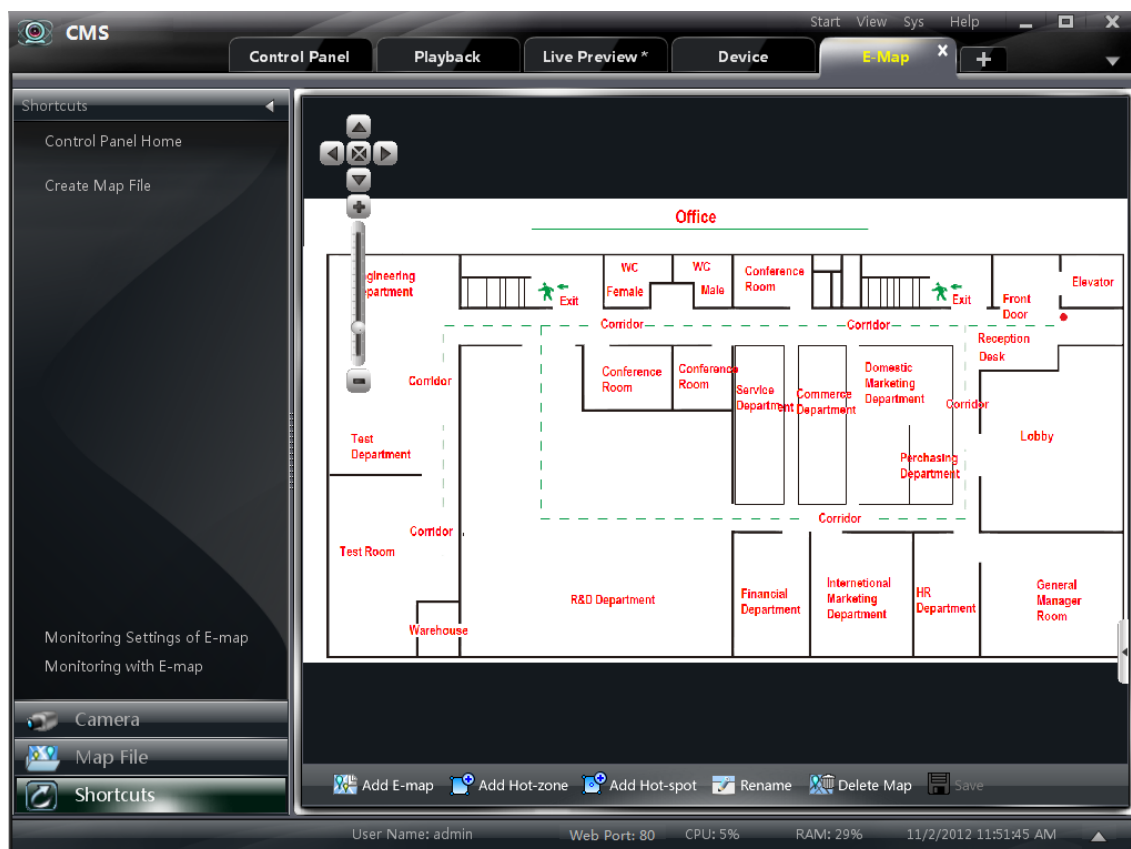
10.1 Create map

In the E-map interface, click 【Shortcuts】 button on the left side to appear the shortcut menu, then click “*Create Map File*” to enter the interface. Import a map and edit a name for it.




10.2 Modify or Delete Map, Hotspot and Hotzone

In the E-map interface, click **“Edit E-map”** on the left side to enter the interface.






10.2.1 Change or Delete Map

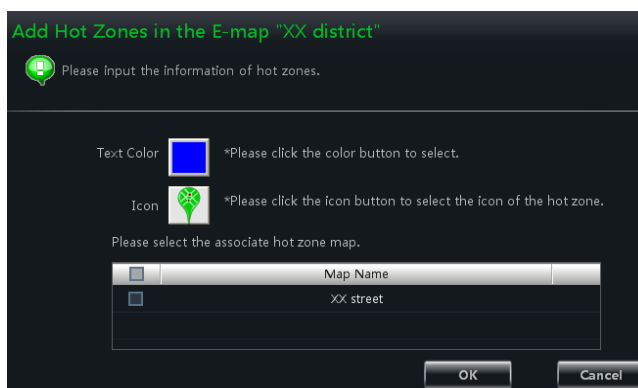
In the above interface, click **“Map File”** to appear the map files on the left side. Choose a map and click  to change a new name for it.

10.2.2 Add, Change and Delete Hotzone

➤ Add Hotzone

Click **“Map File”** and choose a map and then click  icon to pop up a dialog widow.

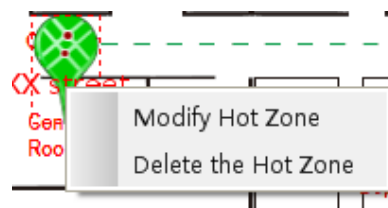
- ① Check a map related the hotzone
- ② Click  to choose text color displaying under the hotzone icon.
- ③ Click  to choose icons for the hotzones.




After finishing, double clicking a hotzone will lead you to enter this map.



➤ Modify and Delete Hotzone

Right click a hotzone on the map. Choose **“Modify Hotzone”** or **“Delete the Hotzone”** to change font color, icon or name or delete it.




10.2.3 Add, Change and Delete Hotspot

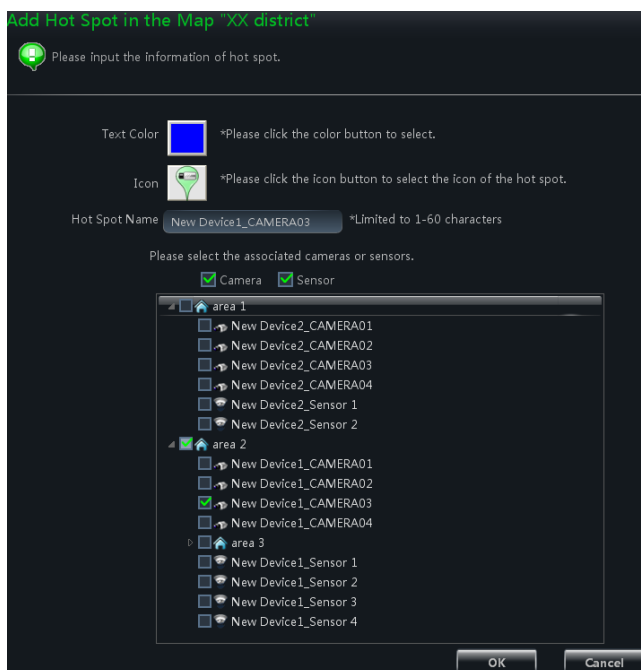
In the E-map interface, choose a map, click  to enter the interface.

- ① Check associated cameras and sensors
- ② Click  to choose text color displaying under hotspot.
- ③ Click  to choose an icon for the hotspot
- ④ Edit a name for the hotspot.

There is another way to add hotspot.

Select a map and double click the camera, or drag the camera to the map for adding hotspot.

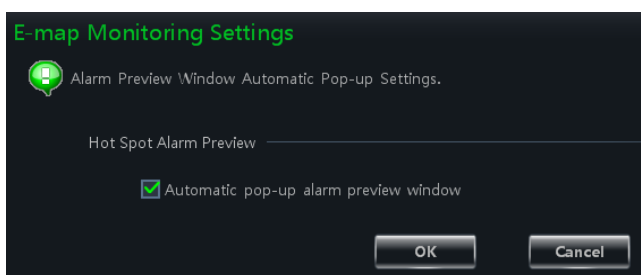
Note: The hotzones or hotspots will focus on the map in the same position after being added. You should drag them to the corresponding positions on the map. Click  to save the settings.



10.3 E-map Monitoring Settings

In the E-map interface, click **“Monitory Settings of E-map”** on the left side to enter the interface.

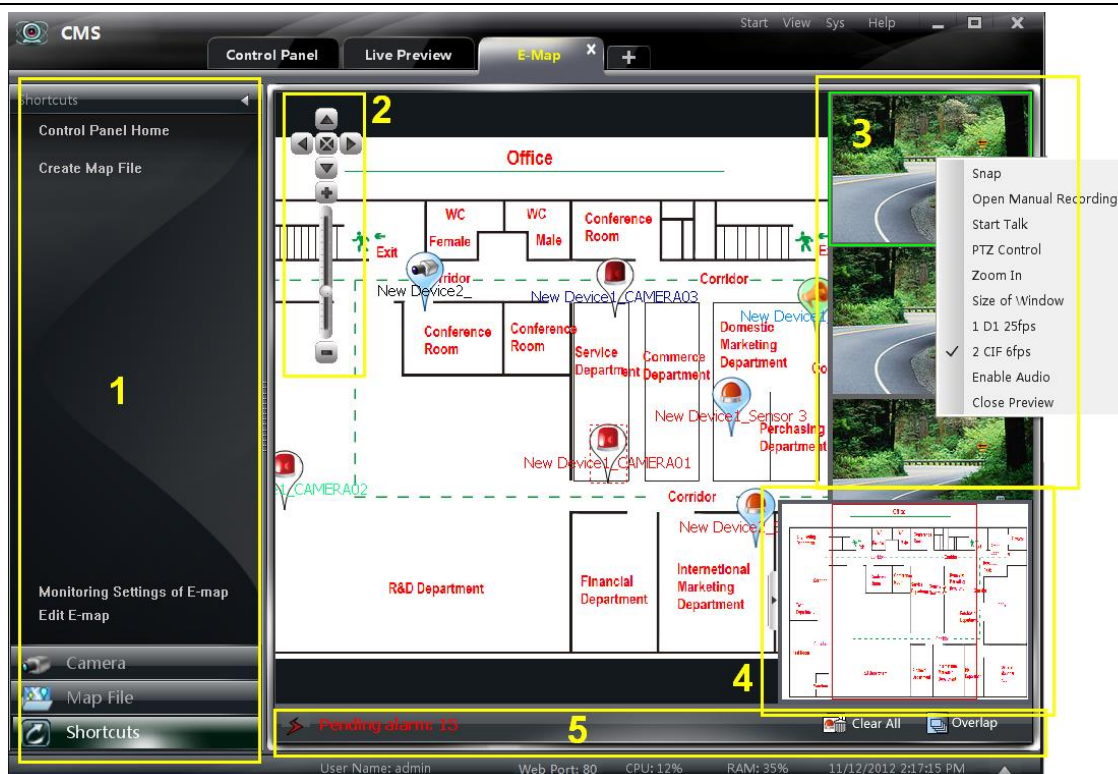
Check “Automatic Pop-up Alarm Preview Window”, then click **【OK】** button to save the setting. If the configured hot spots raise the alarm, the preview image will pop up automatically



10.4 E-map live preview

In the E-map interface, click **“Monitory with E-map”** on the left side to enter the interface.

Note: If the item “Edit E-map” appears on the below of menu bar in the E-map interface, the current interface is monitory with E-map interface. Double clicking a hotspot will switch to the its map. The icon of hotspot will become a flashing light if this hotspot raises the alarm. What’s more, there will be preview windows on the right side if you had checked “Automatic Pop-up Alarm Preview Window”. Clicking the alarm preview image will switch to the map whose hotspot issues alarm.




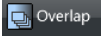
Area Description:

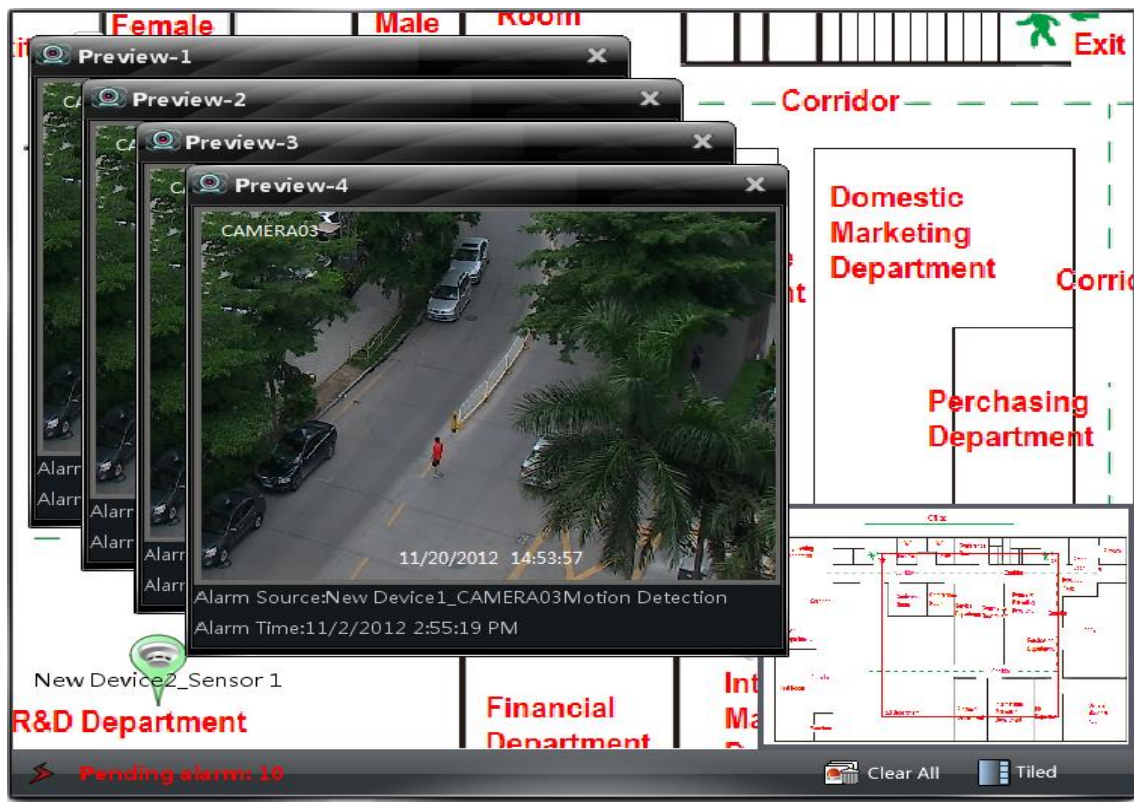
Area	Description
1	Menu bar
2	Zoom in/out the map
3	Alarm preview
4	Overall display of map(suppressible)
5	Alarm message prompts


Right Click on the Alarm Preview Window:

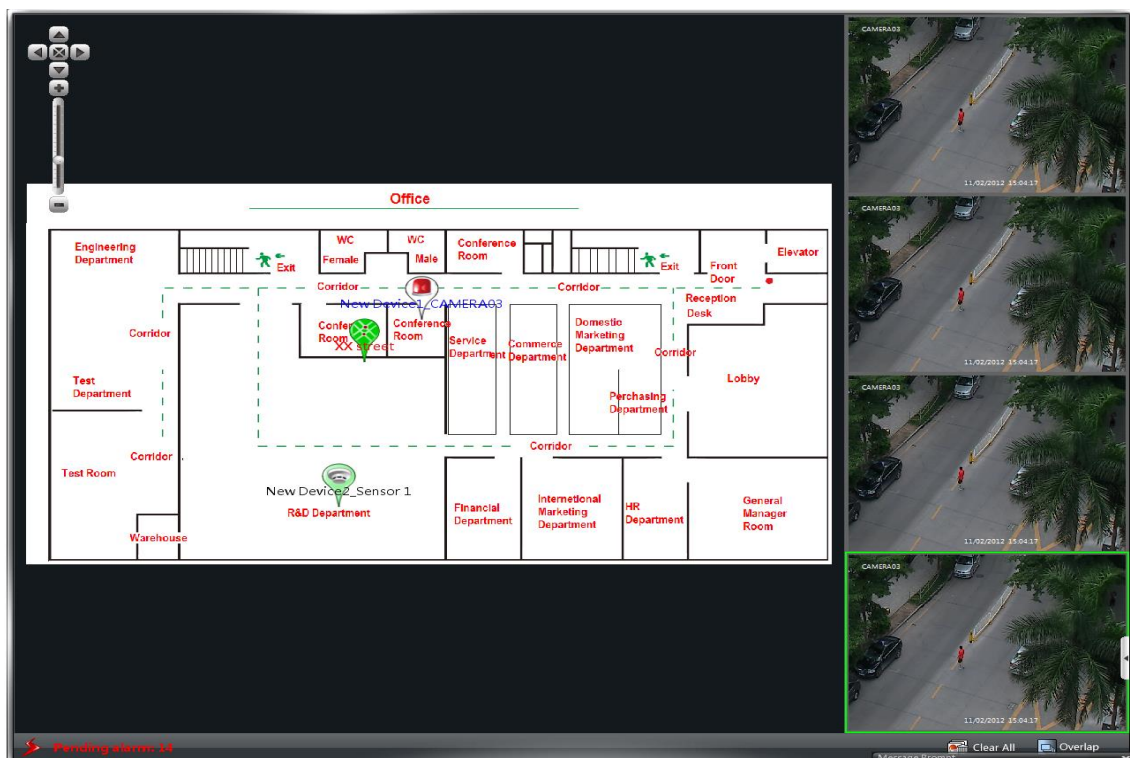
Item	Description	Item	Description
Snap	Picture capture	Open Manual Recording	Start manual record
Start Talk	Start talk	PTZ control	Click to display PTZ control panel
Zoom in	Zoom in the image	Size of window	Recover the image size
Stream	Choose stream to view	Enable audio	Enable audio
Close preview	Stop preview of single channel		

Click  to clear all the number of alarm.

Click  to make the alarm preview windows to overlap together. You can drag each window to view respectively.



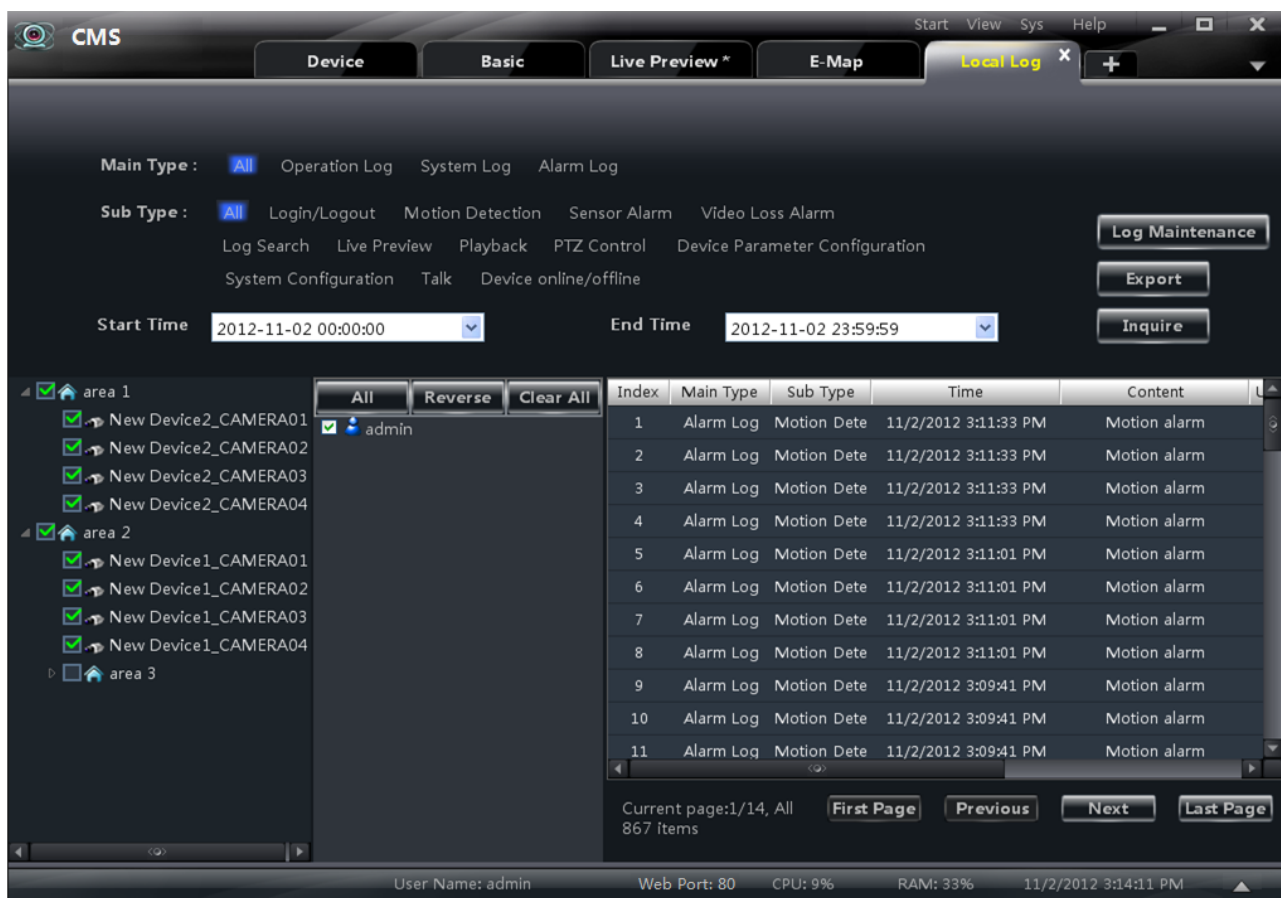
Click  button to tile the alarm preview windows on the right side.



Right click on the map to pop up a menu bar. Choose “Full Screen” to view the image in full screen. Right click on the map to choose “Exit Full Screen” to exit.

11 Local Log

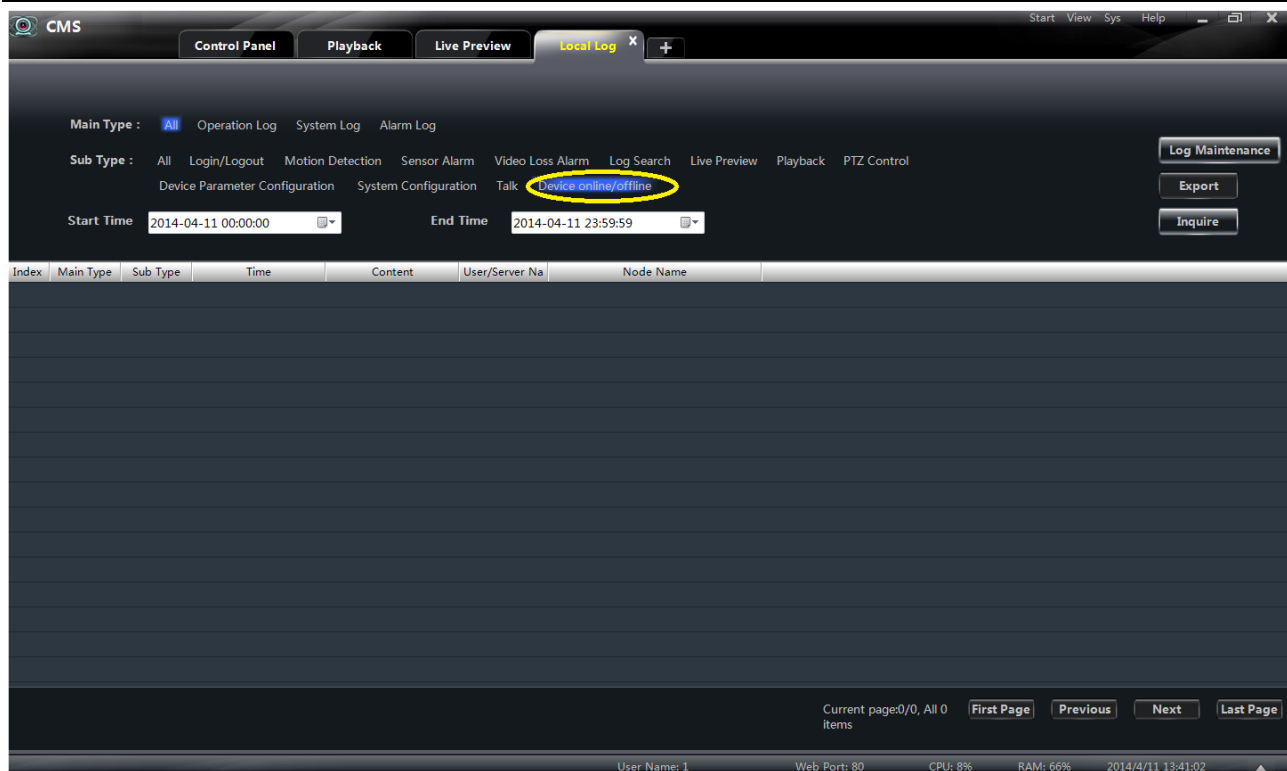
In the interface of control panel, click “**Local Log**” to enter the interface.




11.1 Search log

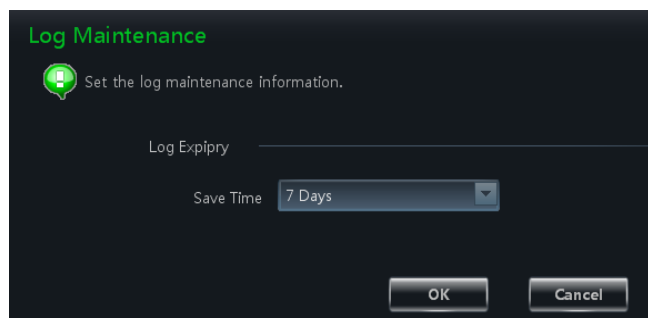
Choose main type, sub type, set the start time and end time, click **【Inquire】** button to search the relevant log information. click **【First page】****【Previous】****【Next】****【Last page】** to view the information on different pages.

For example, you want to view the online/offline information of storage server, you can select Device online/offline under Sub Type in the interface above, then you can view the online/offline information of storage server.




11.2 Log Maintenance

In the log interface, click  button to pop up a dialog window. You can save the information of log for a certain time by configuration in this interface.



11.3 Export

In the log interface, click  button, then choose a storage path to export the log information.

12 User Management

In the interface of control panel, click “**User Management**” to enter the interface.

There is only one super user registered by you when firstly log in the system. You can add several users and set right for them through the function of “Set Account Right”.




12.1 Create a Resource with the Default Permission

In the above interface, clicking “*Create a Resource with the Default Permission*” means that permission of new resources will be given to all the users if you are going to create new resources.

12.2 Create, Change and Delete Users

➤ Create Account

In the interface of User Management, click  to pop up a dialog window. Input account name and password. Choose account type and default right.

You can bind account by e-mail or telephone and add description if you wish.


Note:

- Two types of user: administrator and operator. Administrator enjoys all the system permissions except account and permission management.


Operator only enjoy the permissions of broadcast, searching and exporting log

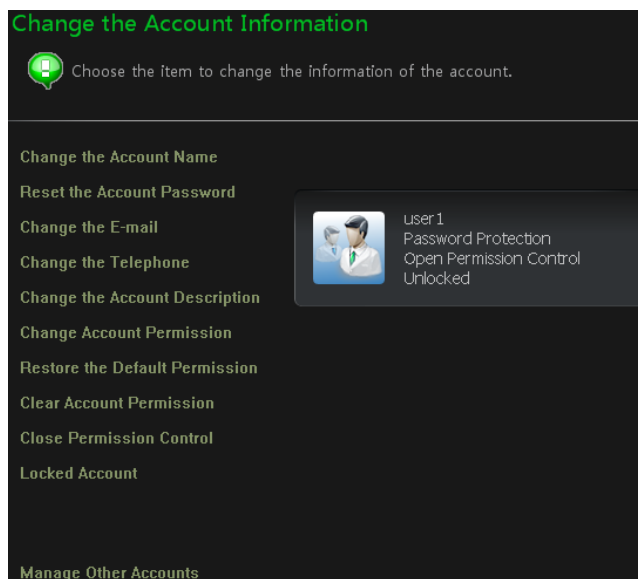
- If you have checked “Default Permission” under initial permission when creating new account, all the resource permissions and system permissions will be added for the user

➤ Change Account


In the interface of User Management, select a user and click  button to enter the interface. You can change account name, password, e-mail address, etc. according to need.

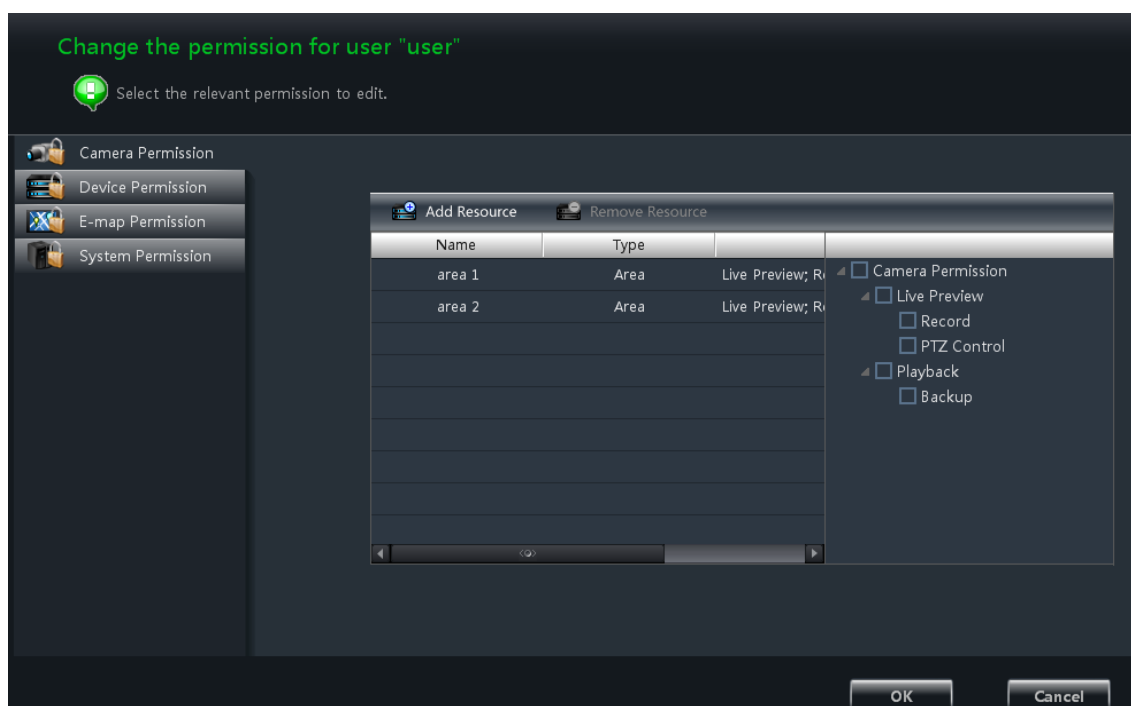
➤ Delete Account

In the interface of User management, select a user and click  button to delete it .




12.3 Account Right Configuration

In the interface of User Management, select a user, then click  to enter the interface.



➤ Camera Permission

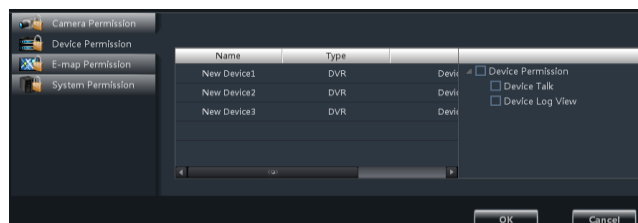
In the interface of Camera Permission, click  button to add resources, check camera permissions on the right.

You can add different permissions for different users.



➤ Device Permission

Click “*Device Permission*” to enter the interface. Select the right on the right hand you want to enjoy.



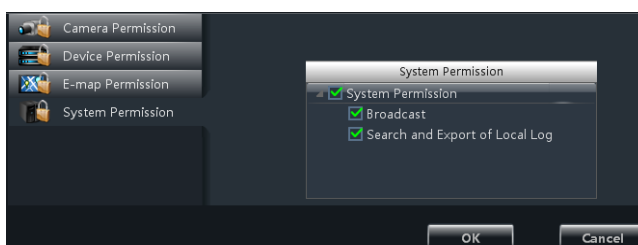
➤ E-map Permission

Click “*E-map Permission*” to enter the interface. Add map permission for the selected user.




➤ System Permission


Click “*System Permission*” to enter the interface, you can set the right of broadcast, searching log information and exporting it for the user you selected.



➤ Restore Default Permission

In the interface of account right management, select a user and click  to restore default permission of this user.

➤ Clear Permission

In the interface of account right management, select a user and click  to clear this user's permission.

13 Basic

In the interface of control panel, click “**Basic**” to enter the interface. System startup and maintenance, backup and restore will be introduced in this chapter. Partition and Path configuration have been introduced in the above chapter, there we do not repeat again.

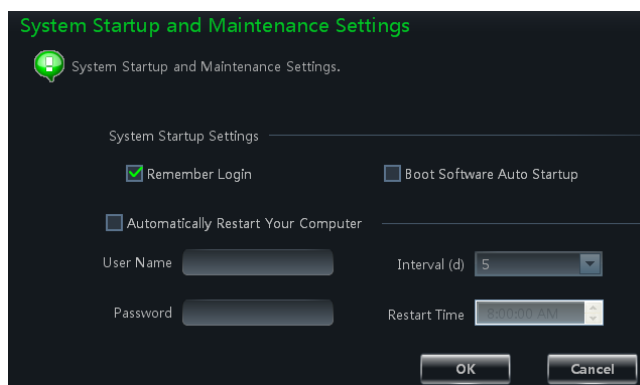


13.1 System Startup and Maintenance

In the interface of Basic Configuration, click “*System Startup and Maintenance*” to enter the interface.

Under the system startup settings, two ways to enable the software can be select.

If checking “Automatically Restart Your Computer”, user name and password of the computer need to be input; time interval and restart time need to be selected.

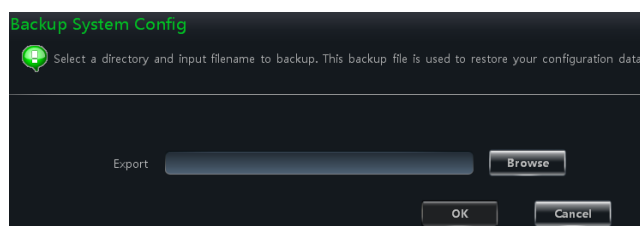


13.2 Backup and Restore

When upgrading the software to a new version, you should firstly export the data of the previous version and then import to the new version so that repeated addition and settings could be avoided.

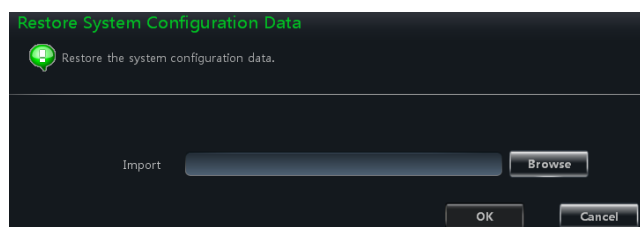
13.2.1 Backup System Configuration data

In the interface of Basic Configuration, click ***“Backup System Configuration Data”*** to export the configuration data.



13.2.2 Restore System Configuration Data


In the interface of Basic Configuration, click ***“Restore System Configuration Data”*** to import the configuration data.

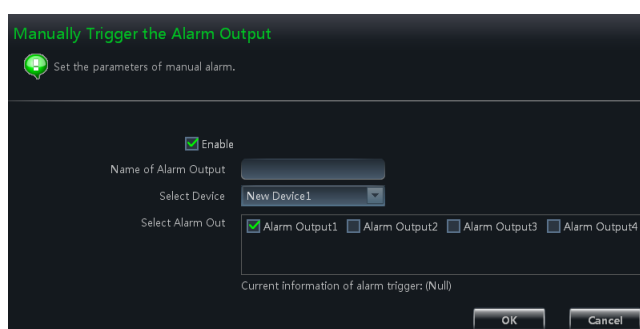


13.3 Manually Trigger the Alarm Output

In the control panel, click ***“Manual Alarm Output”*** under Basic Configuration to enter the interface.

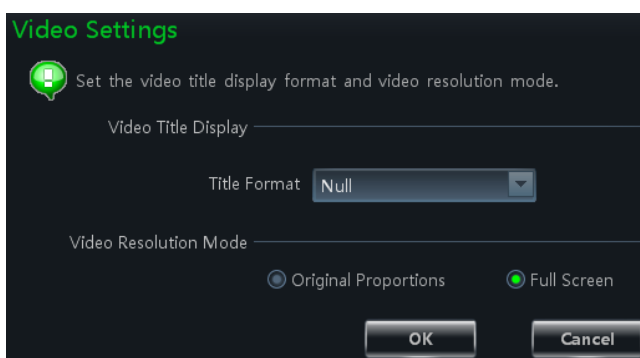
Check “Enable”; select a corresponding device and alarm output; then edit a name for it.

Then an icon  will appear at the right bottom of the software. Clicking this icon will trigger the alarm of selected device.



13.4 Video Display Settings

In control panel interface, click ***“Video Display Settings”*** to set video title display and video resolution mode.



13.5 Batch timing for devices

Click “Batch timing for devices” under Basic in the control panel. You can batch timing for all the devices.



14 Web Client Login

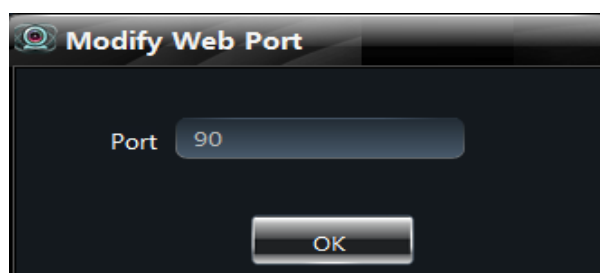
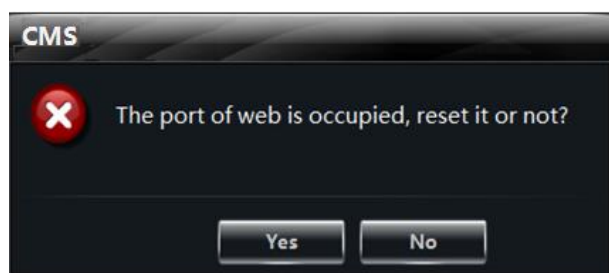
You can login CMS by web client, the default port number is 80. In web client, you can do live preview, record playback and so on. The browsers which the web client supports are as follows: IE8, IE9, IE10, IE11, firefox, google and opera. Here we take IE11 as example.

14.1 Login

The web client login has two types, LAN login and WAN login.

14.1.1 Change the Port of Web Client

The default port of web client is 80. A pop-up will be shown if you start CMS when port 80 is being used. The pop-up is shown at lower left, you can click “Yes” button to change the web port. The change interface is shown at lower right. Users can enter into Basic→Edit Port interface to change the port.



14.1.2 LAN Login

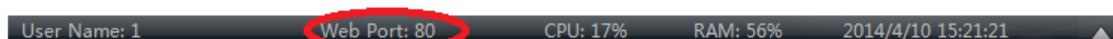
If you login CMS by LAN, you need to input the LAN IP address of your PC. If the web port is not 80, you need to add port number. Input the IP address in the browser, as is shown below:



14.1.3 WAN Login

If you login CMS by WAN, you need to map the LAN IP address into WAN IP address so as to login CMS web client. Please follow the steps below to do the port mapping:

- ① Obtain the LAN IP address of PC;
- ② Log into the management interface of the route by browser. Take TP-LINK route as an example. You should map the IP address and port of PC in the “virtual server” under “Forwarding Rules” in the route (Different route has different configuration, user can view the user manual of route for details). The port of PC can be seen in the bottom of CMS software. As is shown below:



- ③ After finishing port mapping, you can view the mapped WAN IP address through “Running

State” in the route. User can login CMS web client directly by WAN IP address and HTTP web port (**When doing port mapping via WAN, you need to do mapping of port 6063, 6063 is used when the connection is ocx via WAN. Please refer to the above steps to see the way of 6063 port mapping.**).

After port mapping is done successfully, you should input the mapped WAN IP address and port number in the browser to login.

14.1.4 The Download and Installation of Plugins

After you input the LAN IP address or WAN IP address, click “Enter” key to enter into the interface as below:



After you input the username and password, you can login the web client. The username and password is the same with the username and password you register in the PC software. The first time you login by browser, you will need to download and install some relative plugins so as to use live preview and record playback normally. Please download and install the plugins according to the tips in the interface.

14.2 Live Preview

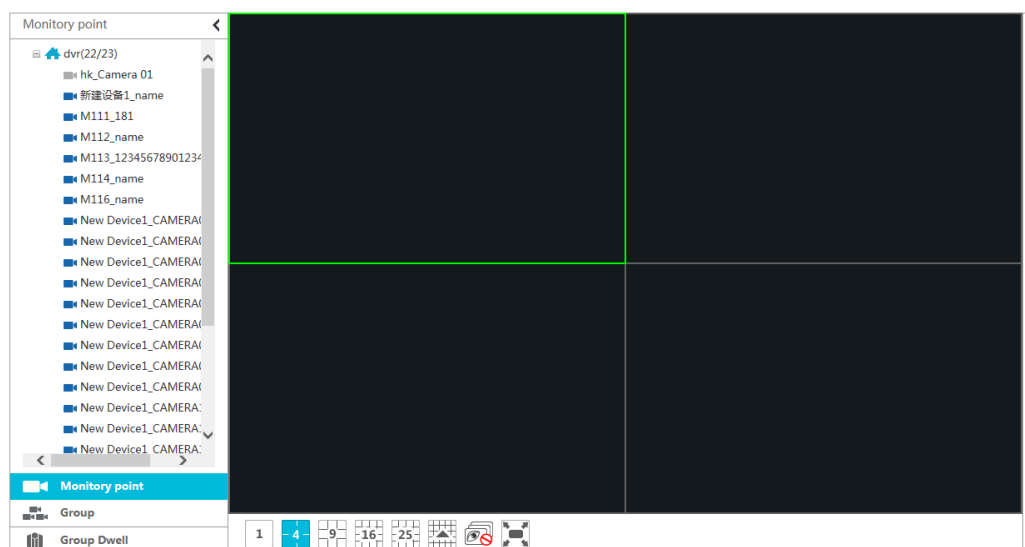
After you download and install the plugins, the interface will be as below:



Live preview

Playback

admin | Logout | Change password



The “x” on the right top is the username. Click “Logout” to log out the system. You can click “Change password” to change the password.

Change password



Password

New password

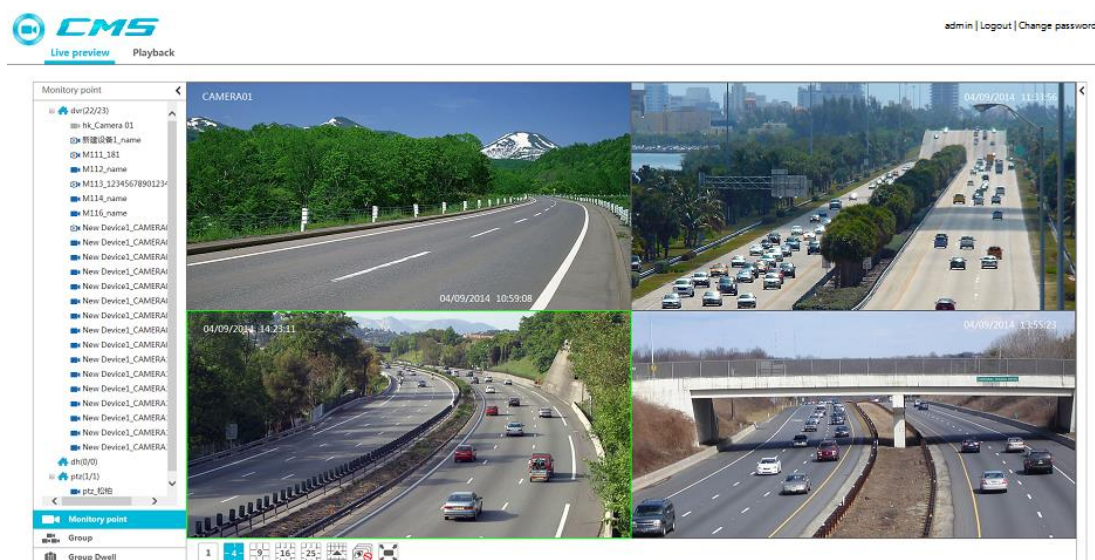
Confirm password

OK

Cancel

In the Live Preview interface, you can hide the left list column by clicking  button on the left, then you can recover it by clicking  button.

Click the camera device you want to preview in the left column, the Surveillance video will be shown in the right of the interface. As is shown below:



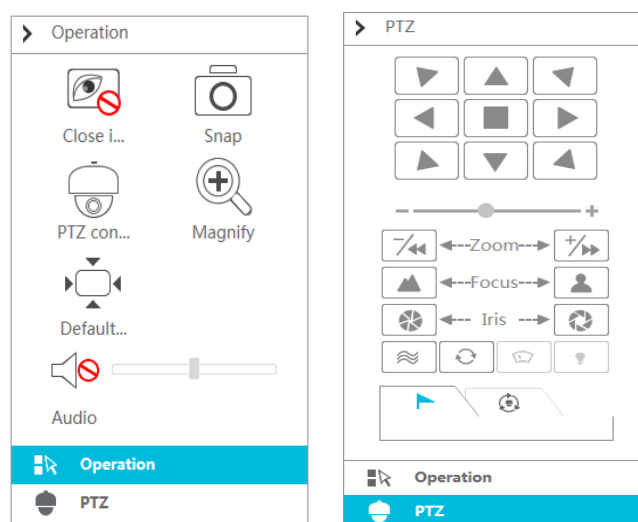
There are some functional buttons under the live preview window, as is shown on the right:



The function of each button is shown in the table below.

Button	Description
	Screen mode button
	More screen mode buttons will be shown by clicking it
	Close all previews
	Full Screen

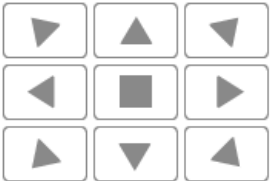

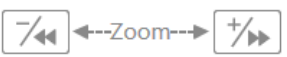


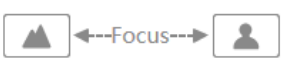


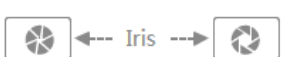








Click button on the right top of the interface, a window will be shown on the right, as is shown below. You can switch the interface between operation and PTZ by clicking **Operation** or **PTZ**. The PTZ interface is shown below. You can hide this interface by clicking button.



The functions of the buttons in the above left interface are as follows:

Button	Description
	Close single live preview window
	Single click to snap picture
	Single click to switch to PTZ interface
	Single click to zoom in the live preview picture
	Single click to recover the live preview picture to its original size
	Single click to cancel silent mode and adjust the volume, single click once again to set silent mode

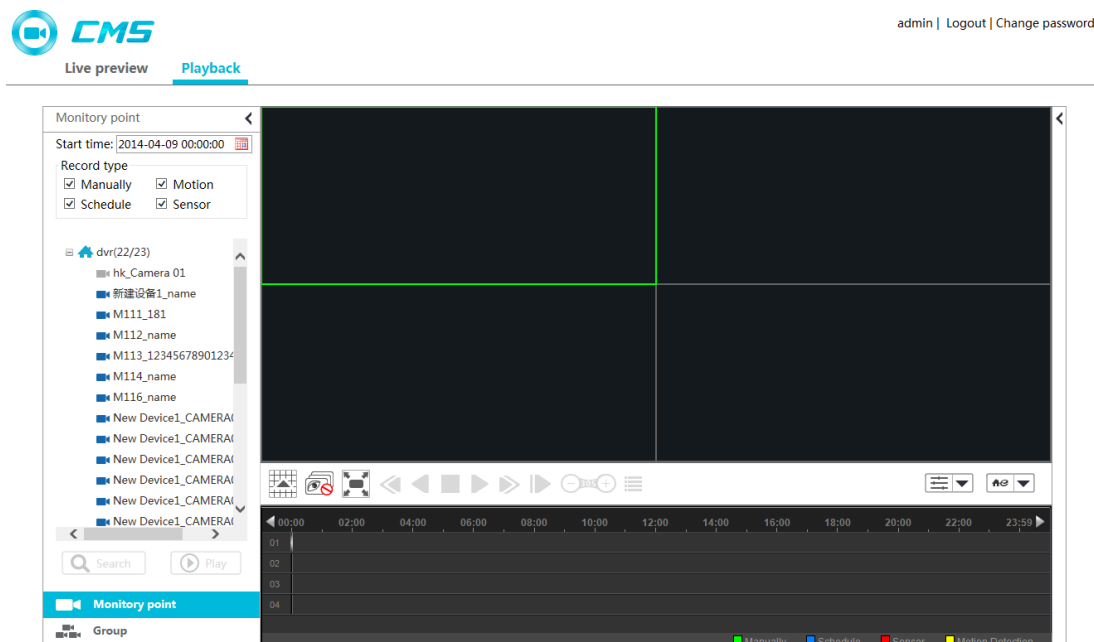
The functions of the buttons in the above right interface are as follows:

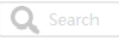

Button	Description
	▲ stands for turning up; ▼ stands for turning right top; ► stands for turning right; ◄ stands for turning right down; ▼ stands for turning down; ► stands for turning left down; ◄ stands for turning left; ▼ stands for turning left up; ■ stands for stopping turning.
	Slide the slider to adjust the rotate speed of PTZ
	Zoom button; Click  button to zoom in channel figure; Click  button to zoom out channel figure.
	Focus button; Click  button to stretch the focus; Click  button to cut the focus.
	Iris button; Click  button to increase the light of PTZ; Click  button to decrease the light of PTZ.
	Click it to start track
	Click it to start automatic scan function
	Click it to start the windshield wiper function (Not support right now)
	Click it to start the light function (Not support right now)
	Click it to view the preset point information
	Click it to view the cruise line information

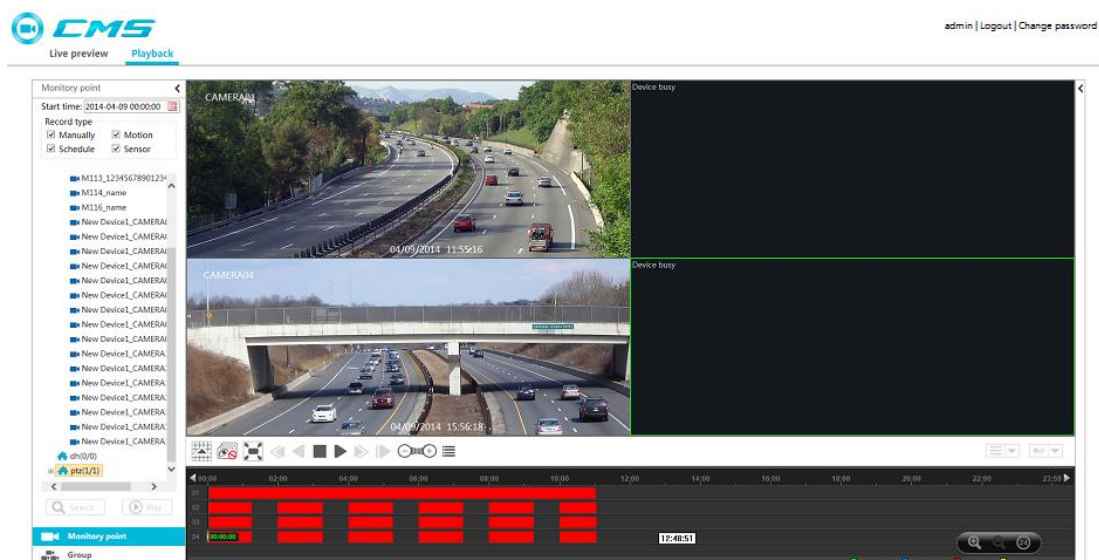
The other operation of live preview interface is the same with the CMS PC client; please refer to [Chapter 6 Live Preview](#) for details.

14.3 Record Playback



















Click “Playback” on the left top of the interface to switch Live Preview interface to Playback interface.




Select the record start time, record type, then click the device you want to playback. If the record file exists, it will be played on the right window; you could also click  button after you select the record start time and record type, then click  button to play the record.



The function of the buttons in the Playback interface and video time section is as follows:

Button	Description
	Click it to show screen mode button
	Close playback of all channels
	Full Screen
	Retreat (Not support right now)
	Play backwards (Not support right now)
	Stop
	Pause
	Playback speed bar
	Playback by single frame. When playback, click  button firstly and then click this button to play frame by frame.
	Forward 30s or backward 30s
	Event list. Click this button to pop up the event list
	Record playback model, synchronous or asynchronous
	Playback source setup, it can be set as local playback\remote playback\all playback.
	Click  button to zoom in the proportion of time scale; Click  button to zoom out the proportion of time scale; Click  button to recover the proportion of time scale to 24 hours' proportion; When time scale has been zoomed in, user can view each time spot record by dragging the time line.

Click  button on the right top of the record playback interface, a side window will be shown on the right. To know the functions of buttons in the side window, please refer to [section 14.2](#).

The other operation of playback interface is the same with the CMS PC client; please refer to [Chapter 8 Playback Management](#) for details.

