



Software Manual



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1 Software Installation

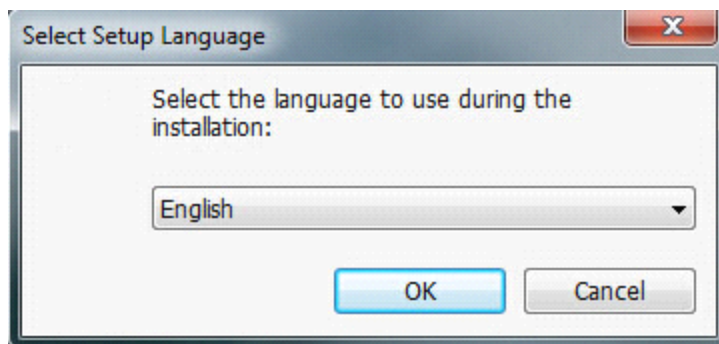
1.1 Overview

This software is a powerful Central Control Software. The system is distributed framework with more windows, multiple previews, video recording, local and remote review, log query, alarm playback and remote configuration. The user interface is friendly; operation is simple and it is convenient to conduct authority settings.

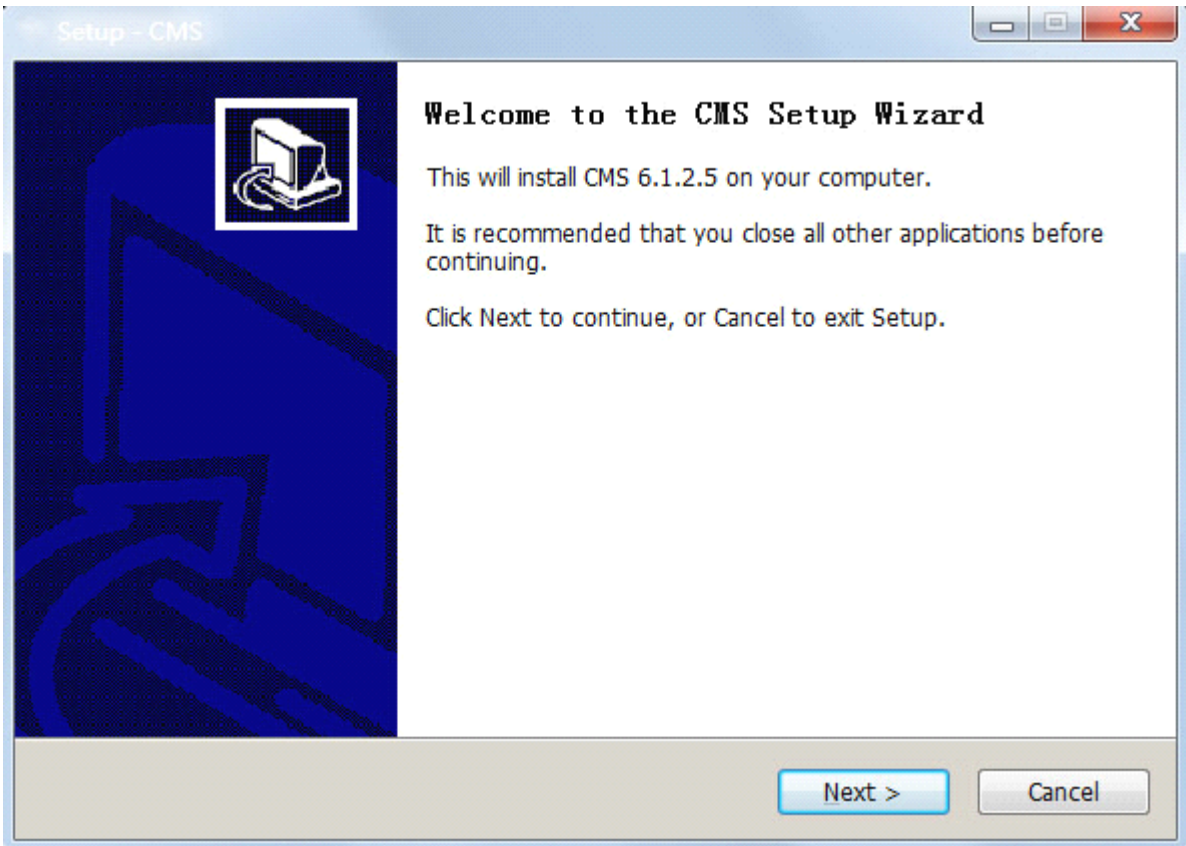
The software can be applied on the connection of different type or model devices (For example, NVR, IPCAM etc.). This manual focuses on the software operation and takes NVR's connection as the example. As for the specific device's function setting, please check the relative instruction. This manual is for the person who is in charge of plan, execution or review the monitor, and the hardware installation. So the person should be equipped with basic operation knowledge and experience of the relative devices (such as NVR, IPCAM etc.)

1.2 Software Installation

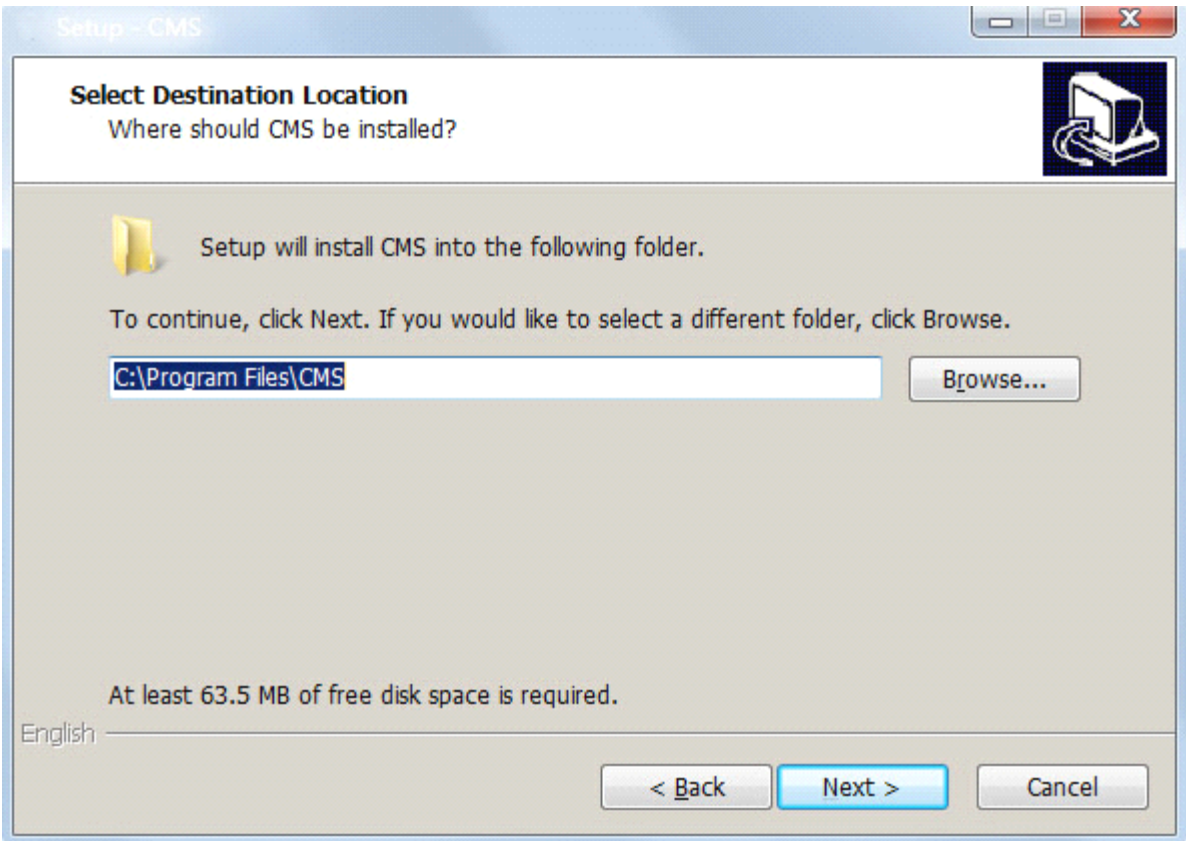
Find out and double click the file "CMS 6.1.2.5.exe", and then the dialog pops up as below.



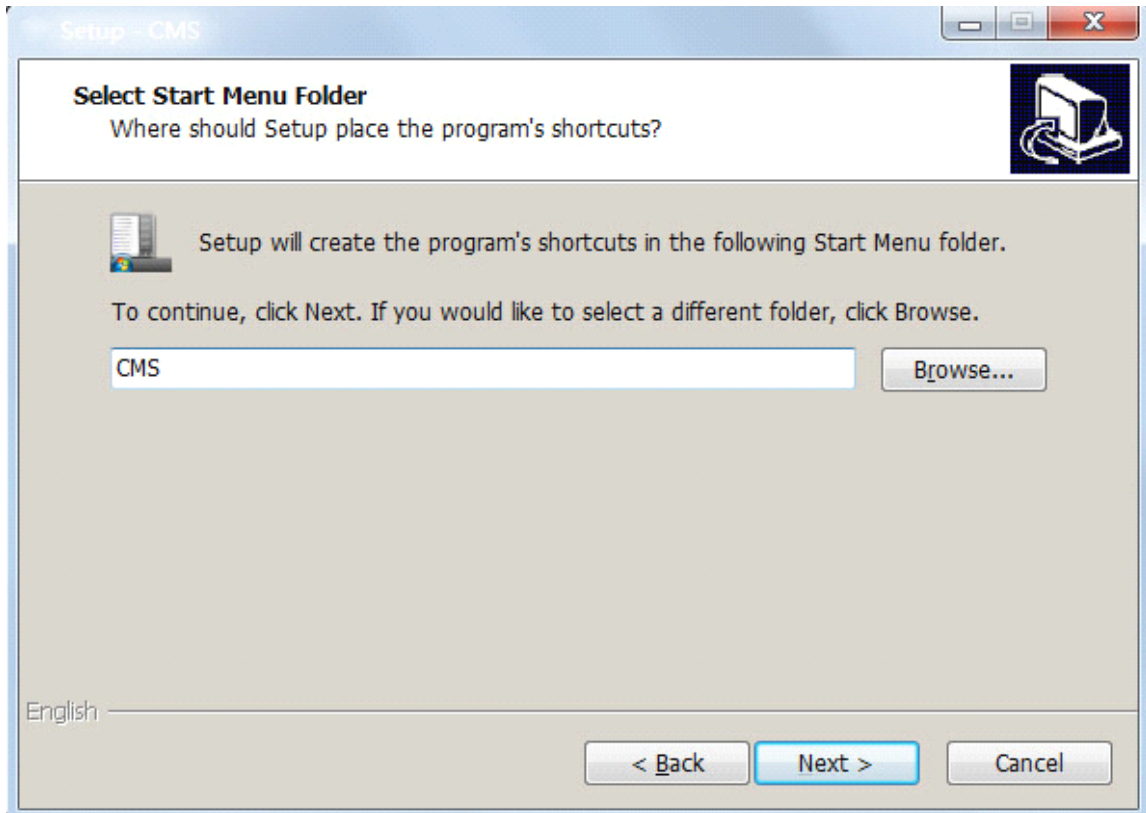
(1) Choose the system language you need, click "OK", the dialog appears as below.



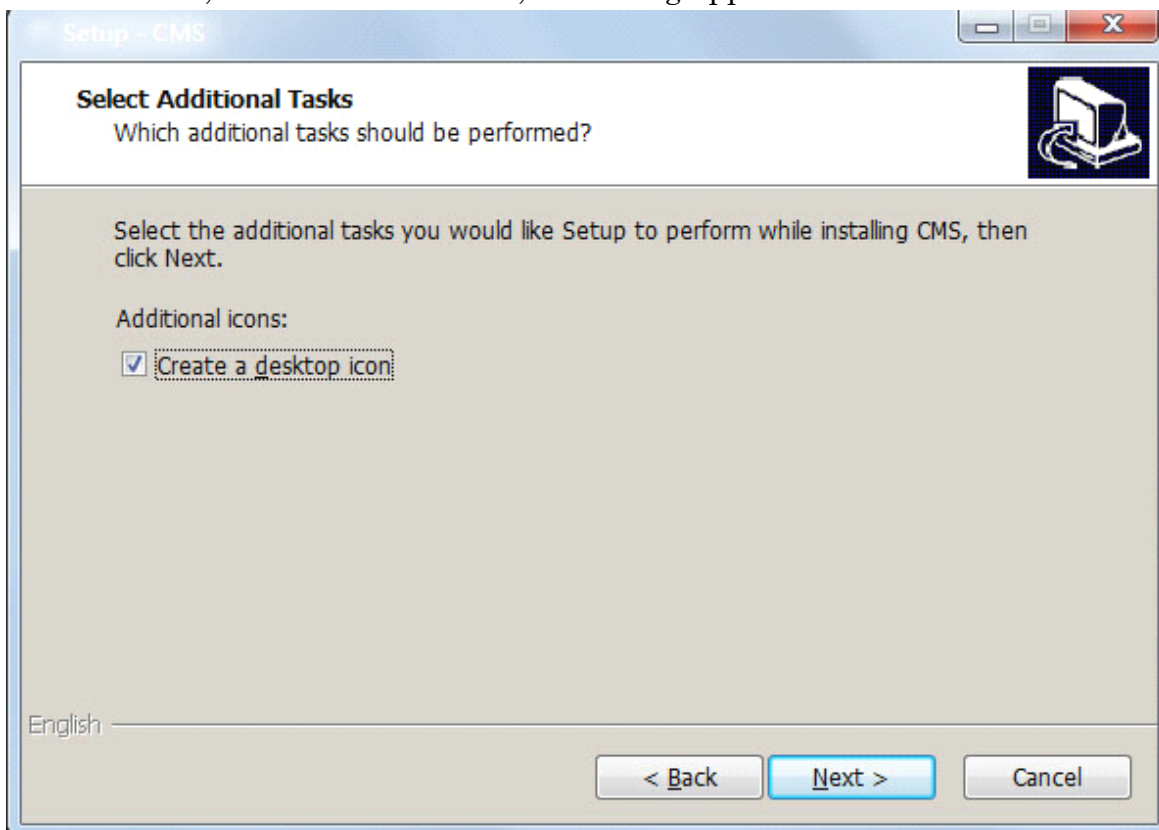
(2) Click "Next", the dialog appears as below.



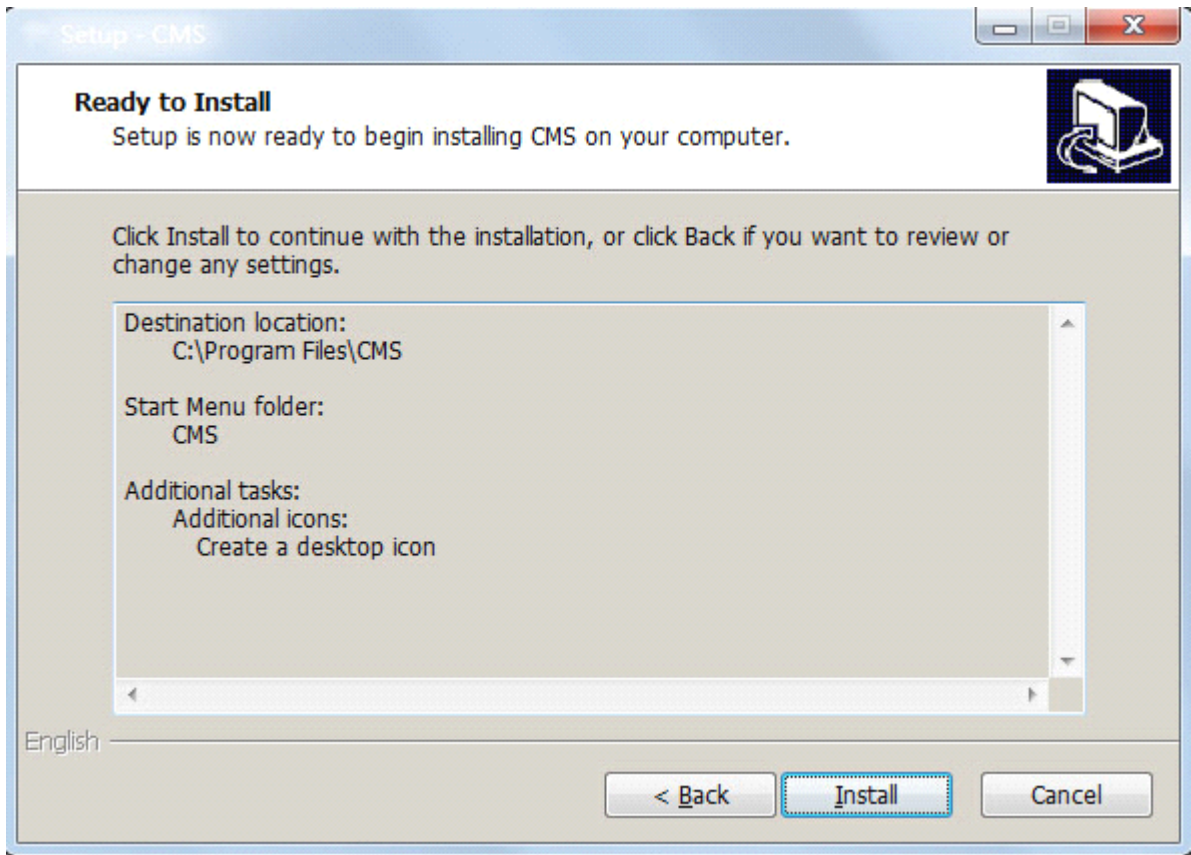
(3) Click "Browse", select the install location, the default location is "C:\Program Files\CMS", click "Next", see the below picture



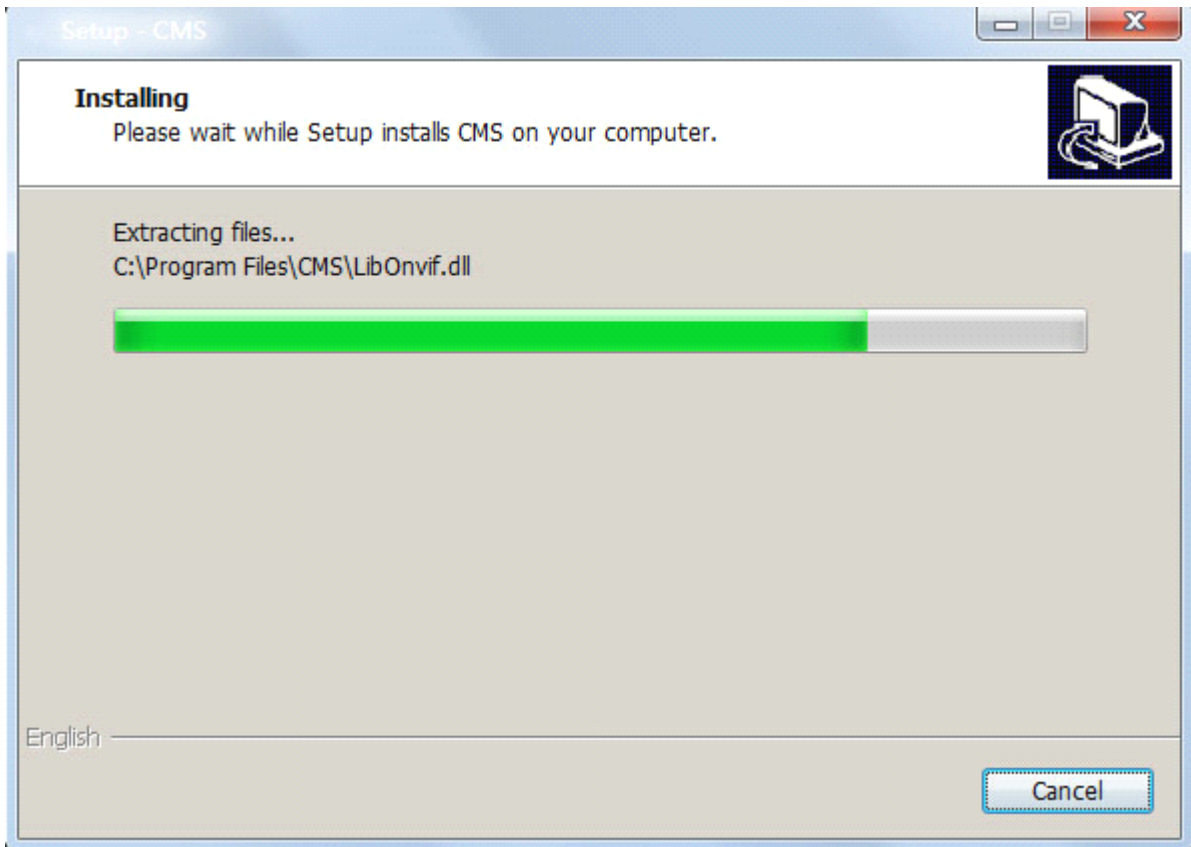
(4) Click "Next", start to install CMS, the dialog appears as below.



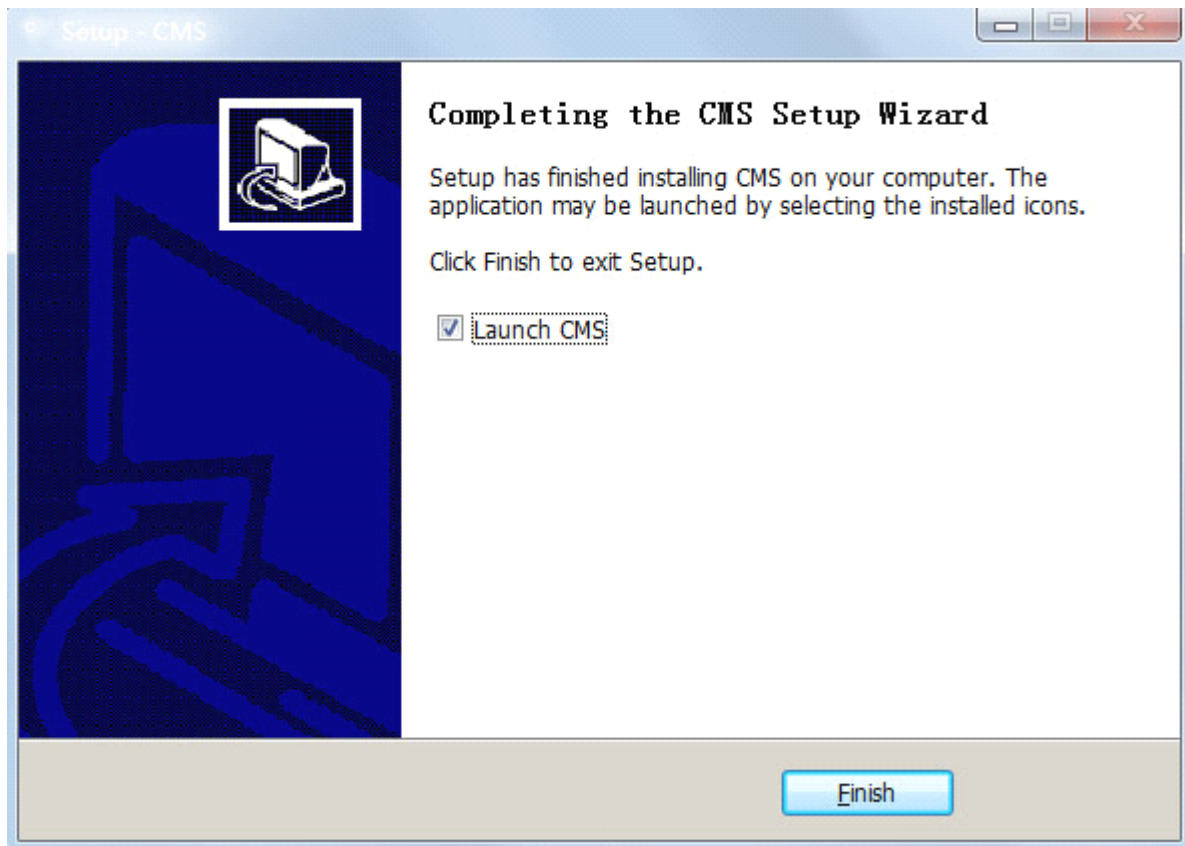
(5) Choose the type, click "Next", the dialog appears as below.



(6) Click "Install" to start installing. The progress bar as below.



(7) After finished, it will remind you **【Completing the CMS Setup Wizard】**, then the appears on the desktop.



2 Introduction To Basic Function

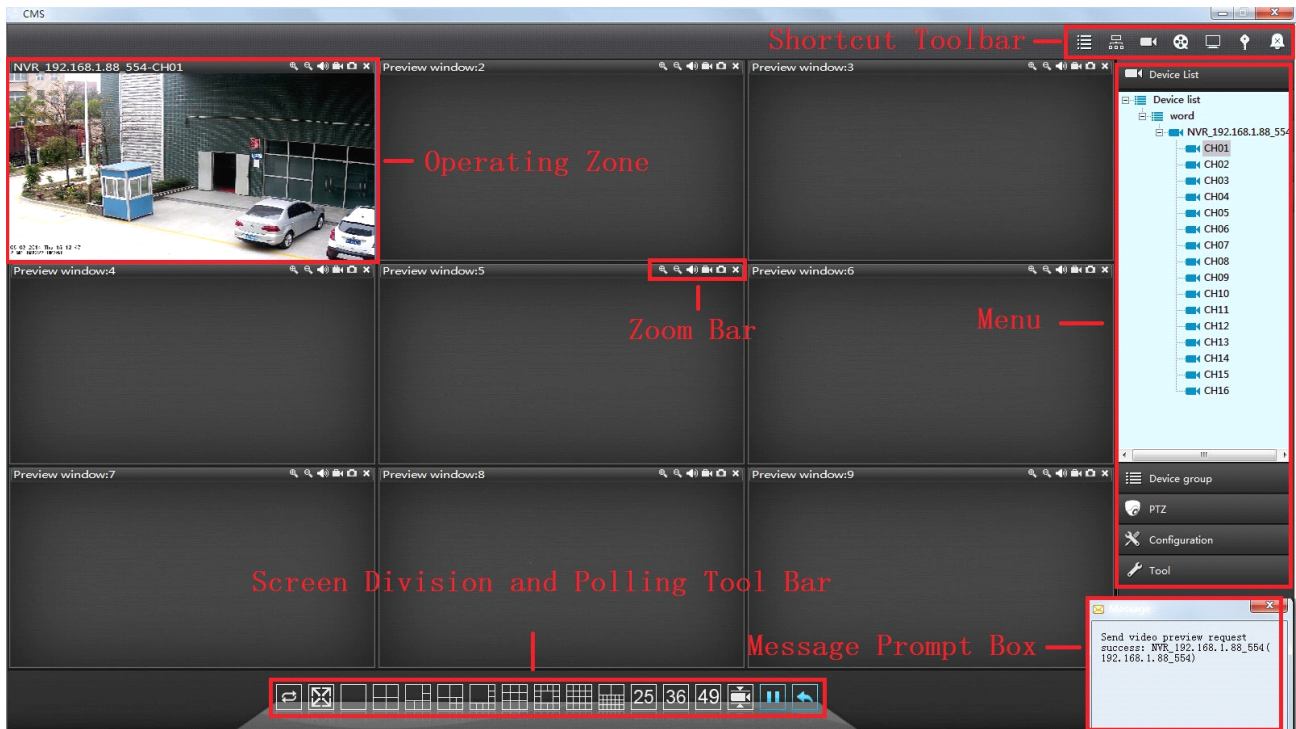
2.1 Login System

After finish the installation double click the icon on the desktop. The log-in screen appears. In the first log-in, you should register a user, the user is the system administrator with all the authority. You should set the user name and password (such as, user name: admin, password: admin).



2.2 CMS Operating Interface

After finish the user name and password, click "OK", then enter the Operating Interface as below picture.

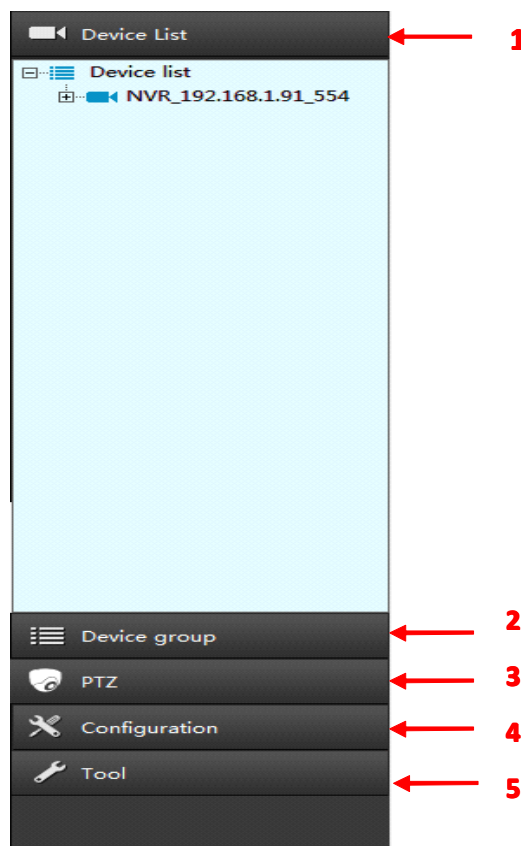


2.2.1 Operating Zone

During the visual preview, the user can do it in the operating zone. Click the right mouse button, you can conduct the configuration of system video play.

2.2.2 Menu

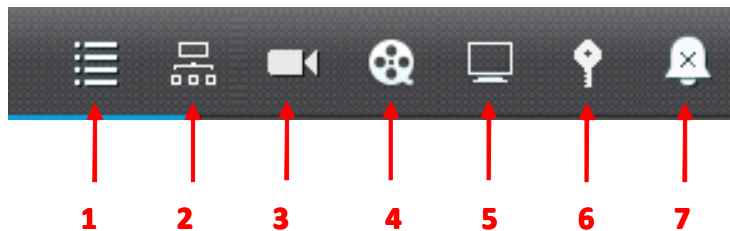
The user can choose to set single menu and its sub-menu in the MENU.



No.	Name	Note
1	Device List	Device List, see chapter 6.1
2	Group List	group list, see chapter 6.1
3	PTZ	PTZ Menu, see chapter 5.1
4	Configuration management	Device Management, Time-table configuration, Linked preplan configuration, user management, configuration lead-in & lead-out, Group management, see chapter 3
5	Tool	Log Query, Batch setting, Version information, see chapter 4

2.2.3 Shortcut Toolbar

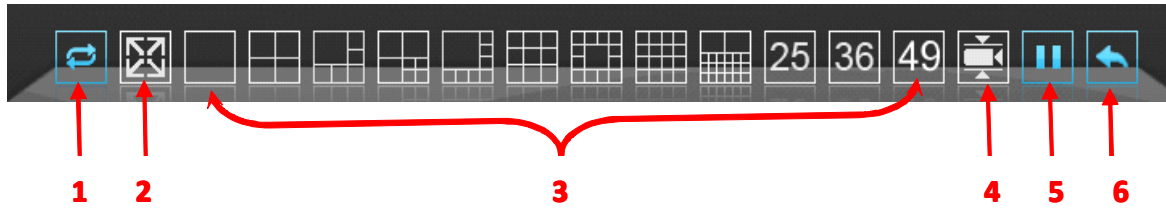
Through the shortcut toolbar, the user can conduct device management, video replay and setting local configuration etc.



No.	Name	Note
1	Device Management	Include mobile detect alarm, screen mask alarm etc., see chapter 3.1.
2	Group Management	polling group play and group play see chapter 3.5
3	Video Channel	Present all the running video channel, see chapter 7.1.
4	Video Replay	Pop up local replay of common video and alarm displayer, see chapter 7.2.
5	Basic Configuration	The modify of parameter and password of the system configuration, see chapter 7.3.
6	Log Out	The user's log out, see chapter 7.4.
7	Alarm Configuration	Equipped with terminal alarm function.

2.2.4 Screen Division And Polling Tool Bar

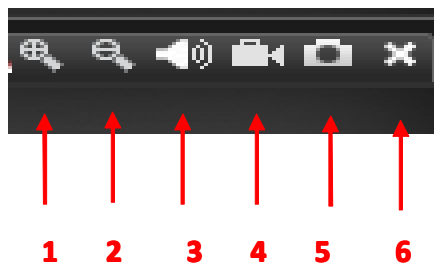
The user can choose the quantity of monitoring channels and to set the display mode.



No.	Name	Note
1	Scanning Grade	Scanning real-time and smooth level setting.
2	Full Screen	Switch to Full Screen, see chapter 6.1.1.
3	Split Screen Control	Multi-screen preview, see chapter 6.1.1.
4	Play Mode Switch	Video freely scan mode and video display group polling mode, see chapter 6.1.
5	Polling Pause	During the visual polling, the polling can be paused.
6	Polling Recover	During the polling pause, the polling can be recovered. See chapter 6.1.4.

2.2.5 Zoom Tool Bar

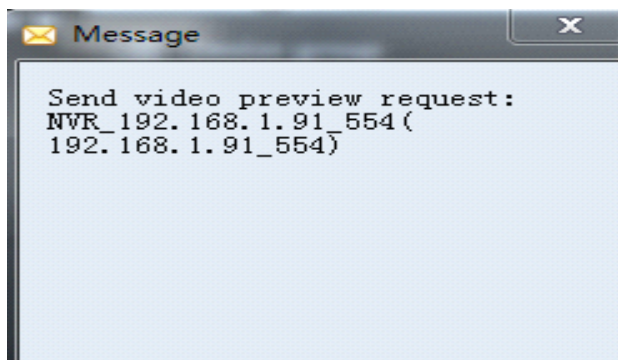
By the Zoom Tool Bar, the user can zoom preview zone, take video and picture.



No.	Name	Note
1	Enlarge	Enlarge the place you click on the preview screen, see chapter 6.1.1.
2	Narrow	Narrow the place you click on the preview screen, see chapter 6.1.1.
3	Voice	Voice Menu
4	Video	Record the video, see chapter 6.2.2.
5	Picture	Take the picture on the screen, see chapter 6.1.1.
6	Shutdown	Shut down the channel, see chapter 6.1.1.

2.2.6 Message Prompt Box

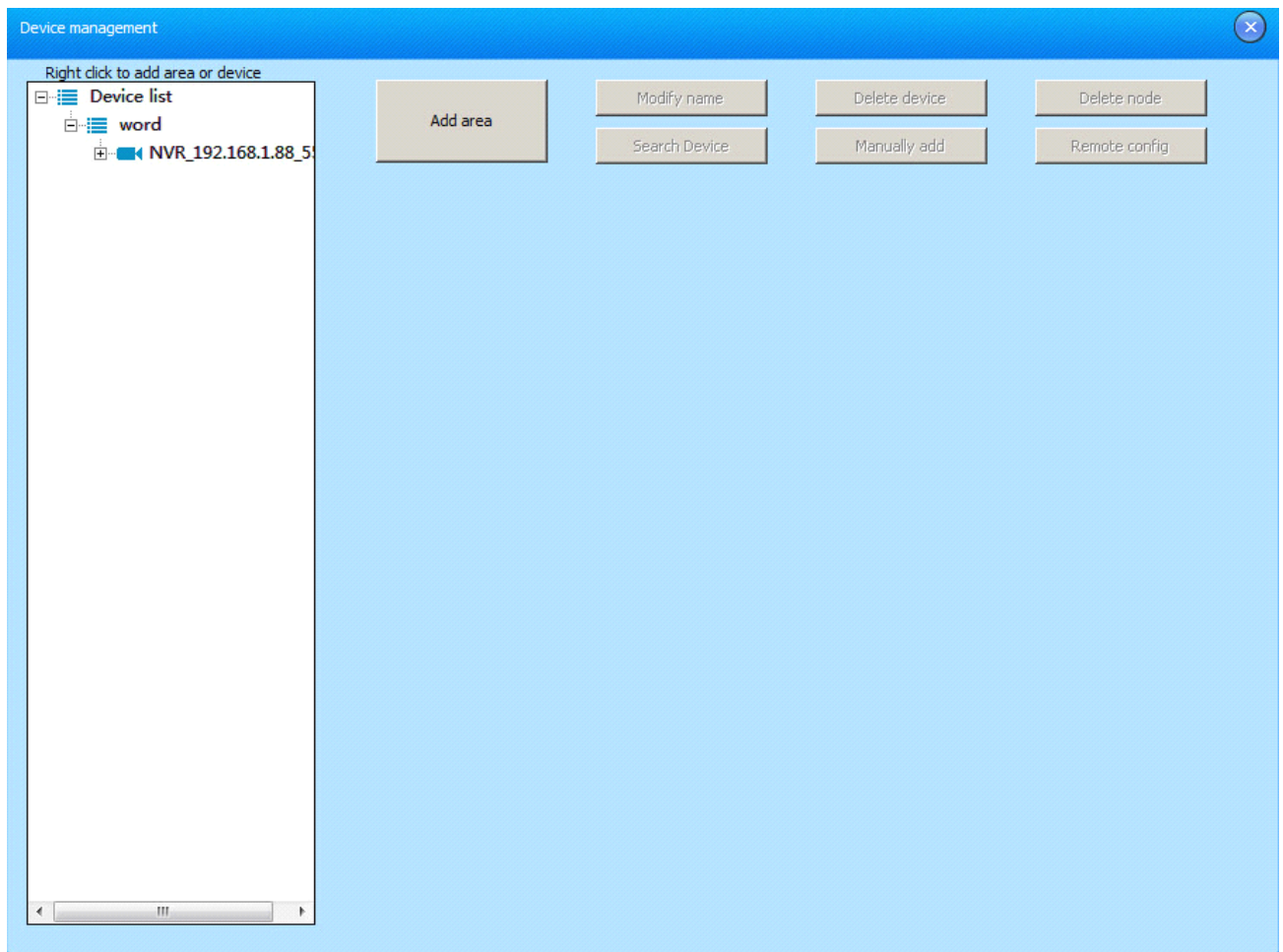
The message prompt is as the below picture. During the configuration and operation, the system will record operating information automatically and prompt with Message Prompt Box.



3 Configuration Management

3.1 Device Management

Before the software operation, you should add the device and make the configuration. Click the Log Query on "Tool" of menu, then the device management interface comes out as below picture:



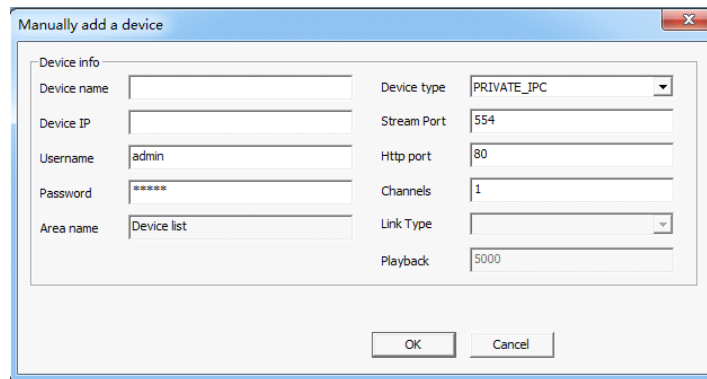
3.1.1 Zone Add, Modify, Delete

Right click on the junction point of zone, choose the "Add Zone" on the pop-up menu, then fill in the Zone Name, then click to finish the zone adding.

Note: right click the zone, "Delete Junction Point", "Modify Name" means to delete the junction point and modify the name.

3.1.2 Manually Add

Click the "Configuration Management" on the menu, open the window of "Device Management", choose the "Device List", then the sub-menu "Manual Add" of "Add New Video Device", as below picture:



Device info	
Device name	Device type: PRIVATE_IPC
Device IP	Stream Port: 554
Username: admin	Http port: 80
Password: *****	Channels: 1
Area name: Device list	Link Type: [dropdown]
	Playback: 5000

First: Open Add Device window.

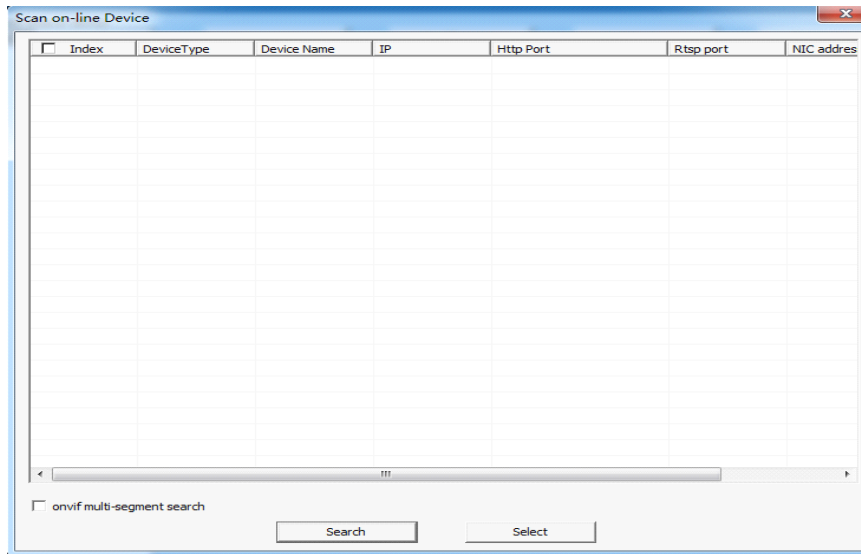
Second: Fill the Device Name, Type and IP information. After filling, click to confirm the add.

Third: After the add, go back to the main window, now you can double click the device channel to see the video.

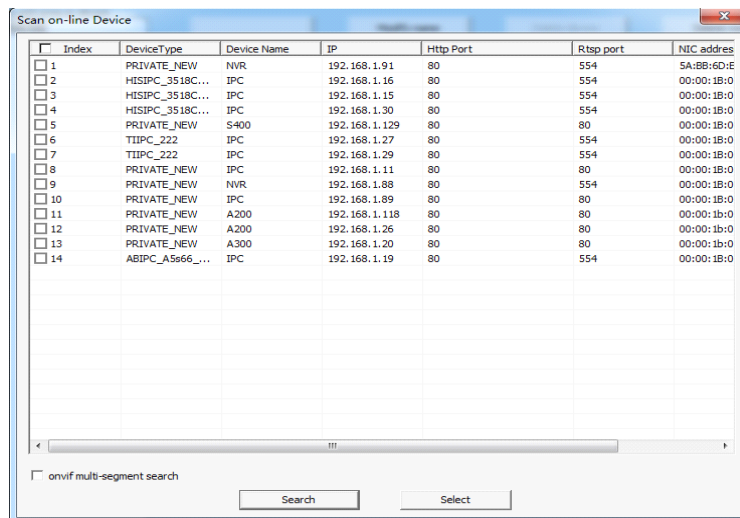
- **Device Name:** Randomly fill, just as the device Identifier.
- **Device Type:** You can choose DVS、NVR、IPCAM etc.
- **Device IP:** IP address of the video server to be connected.
- **Channel Quantity:** The quantity of video server channels.

3.1.3 Online Device Detect

1. Click the "Configuration Management", open the window "Device Management", choose the "Device List" and right click, then sub-menu "Online Search" of "New Video Device", as the below picture:

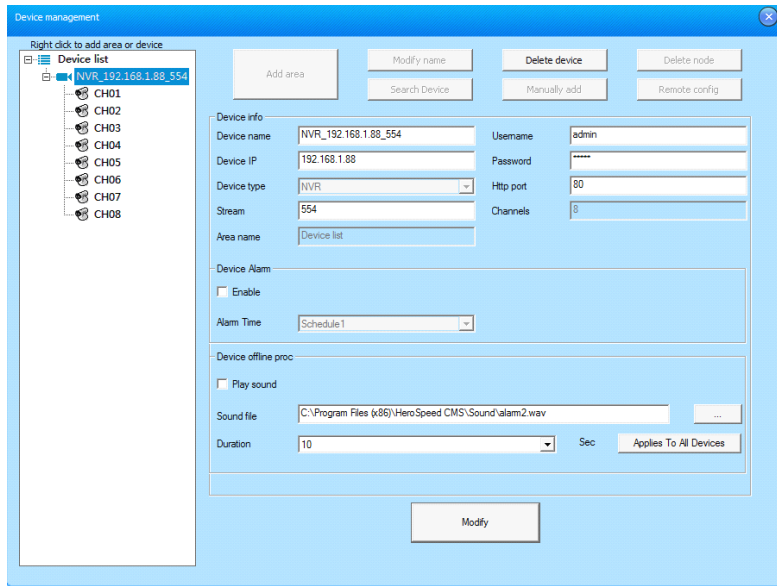


2. After the Query, choose the device you need to add and select the number of the front box, then click the " choose device " to confirm.



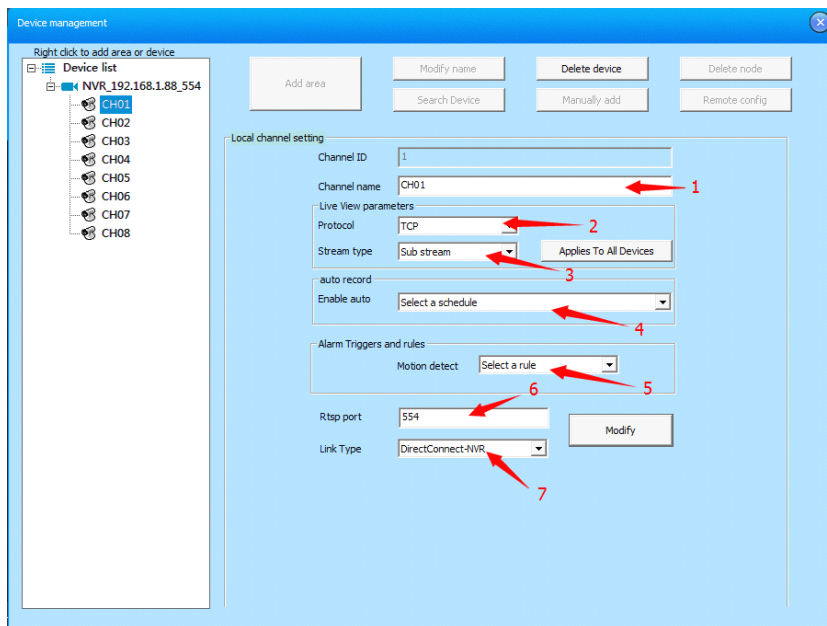
3.1.4 Front-end Device Parameter Settings Management

Click the device name in the device management, as the below picture:



You can modify the parameters like Device Name, Port No., and User Name/Password etc. The default port No. is 554, and the default http port No. is 80.

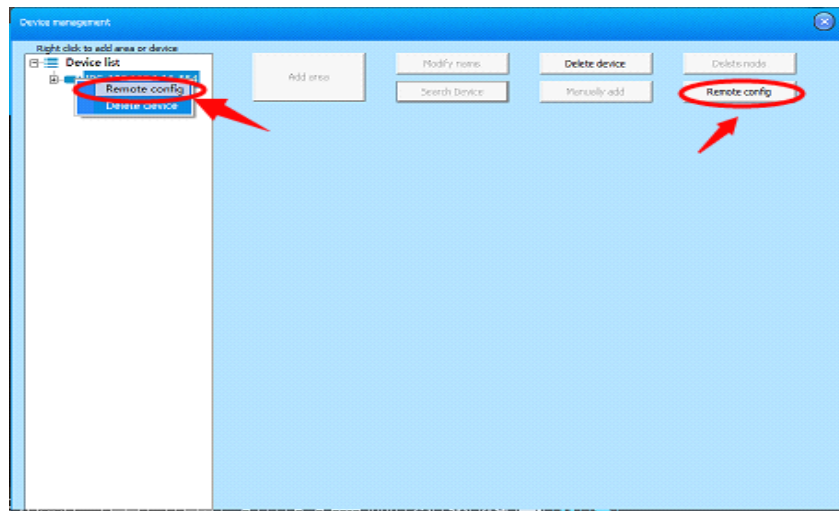
Click the channel in the device management, as the below picture:



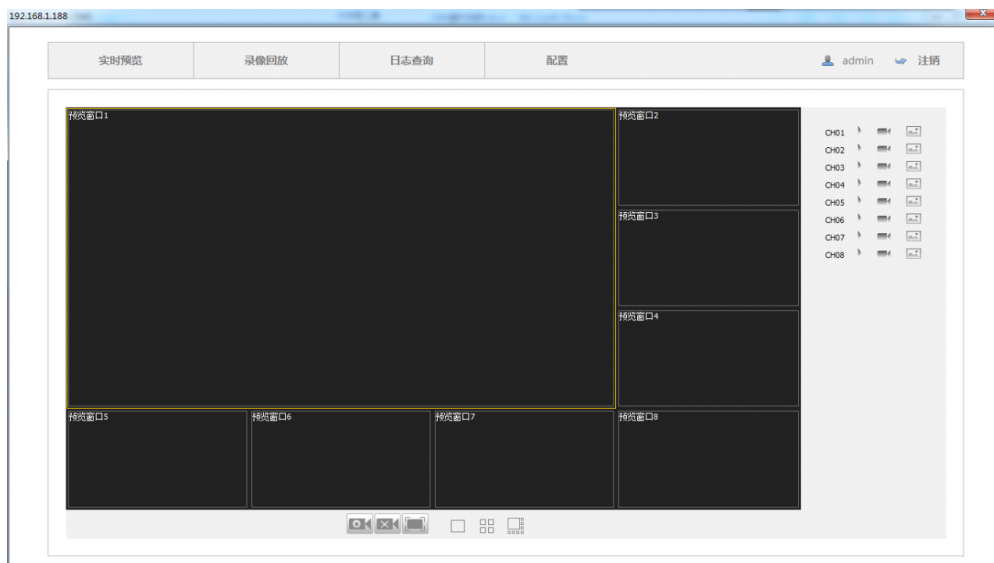
1	Modify the channel name.	2	UDP/TCP Network transmission protocol choice
3	Channel data rate mode choice.	4	Time of auto-record choice.
5	Mobile detect plan choice.	6	Rtsp port
7	Link Type choice.	8	

3.1.5 Remote Configuration

Open "Device Management", select any device from the device list on the left, then right click to select the menu of remote configuration. You can also click the remote config on the right.



DVR, for example, Choose the device of DVR, click "remote config", then enter the Operating Interface as below picture.



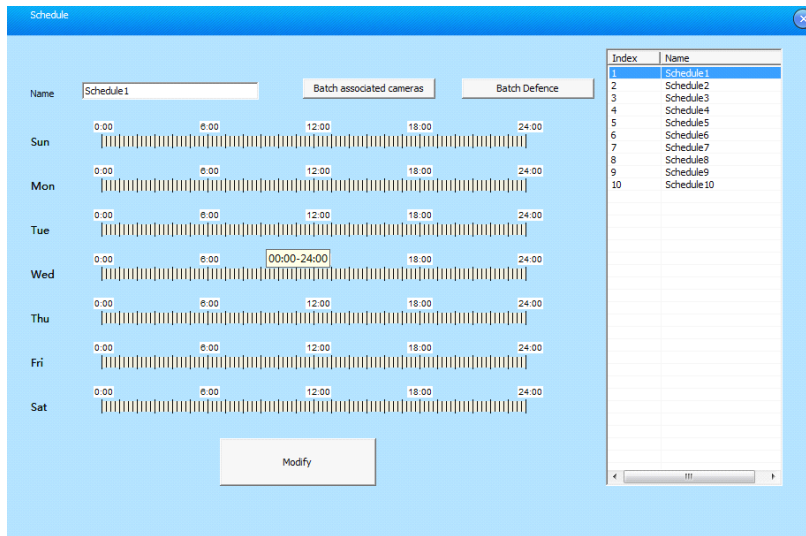
Note: the related operations is the same as the web operations of DVR. As for the specific device's function setting, please check the relative instruction.

3.2 Schedule Configuration

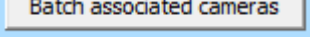
Schedule is applied on the period of auto-record, you can choose the time to record by your own choice. The operation is like this:

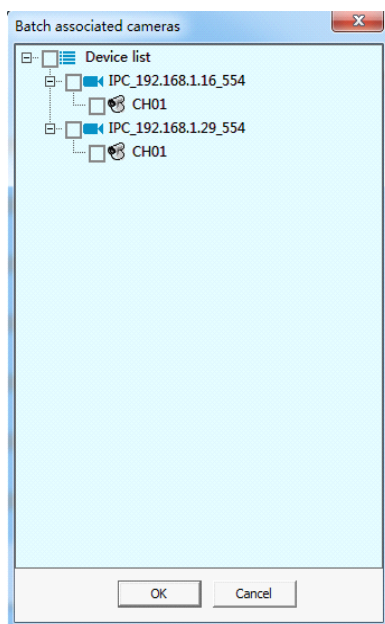
First: Click the "Configuration Management", open the "Schedule Configuration" window

Second: Choose the time to record by your own will.

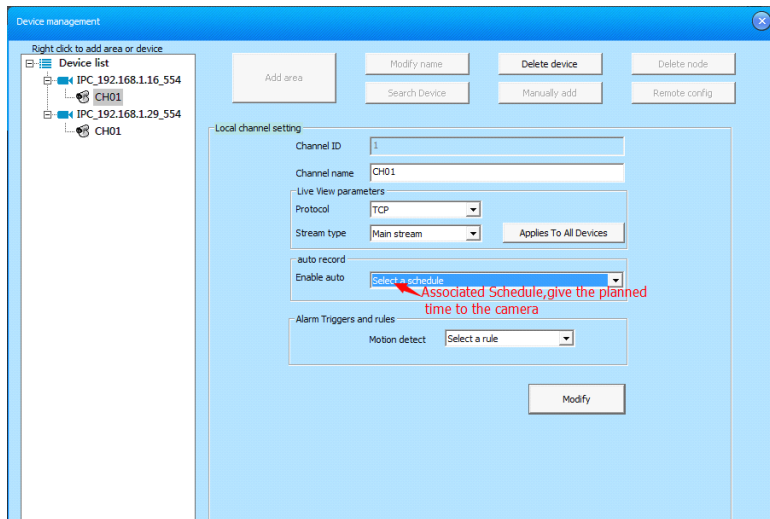


Third: Schedule Associated Camera.

A Batch of associated camera, choose , make the recording plan for the cameras.



Single camera associated schedule, open "device management", choose a video channel, and select the schedule to be set in " Auto-record" (If you chose the time regulation, the system will obey the regulation to record automatically).

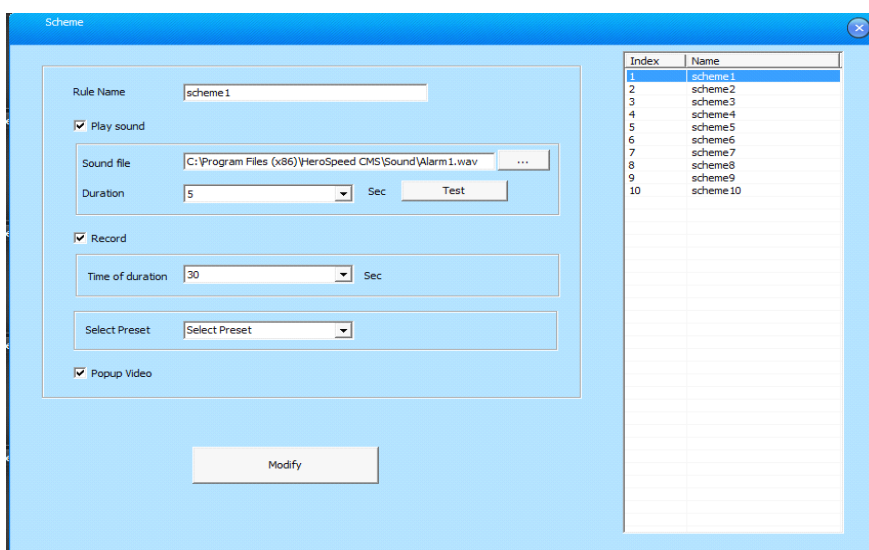


Note: This option is effective for preview video channel.

3.3 Alarm Linkage Plan Configuration

Alarm Linkage offers many alarm prompt methods, the operation is as below:

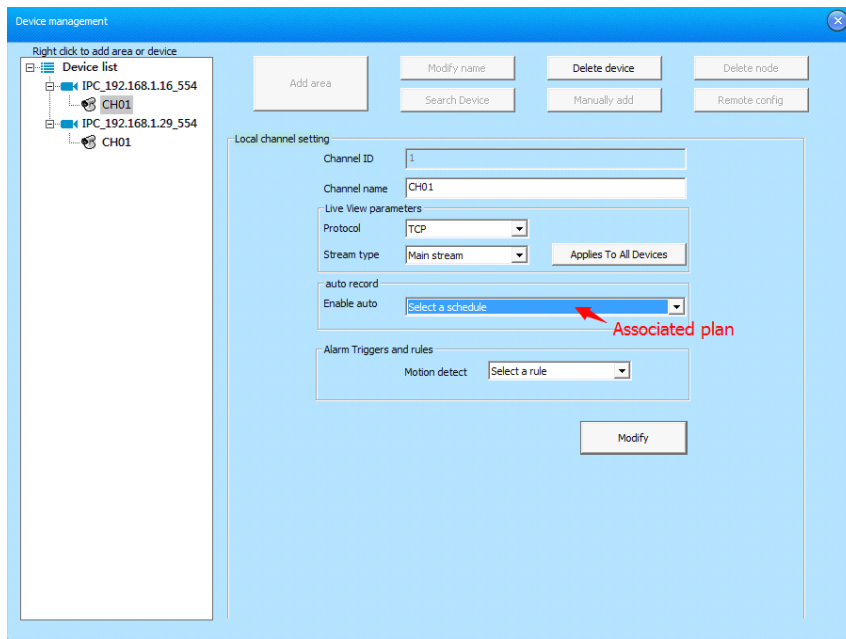
First: Click the "Configuration Management" on the menu bar, open "Linkage Plan Configuration" to install the alarm linkage.



- **Plan Name:** Modify the plan's name.
- **Sound to Play:** Set the alarm ring, the computer will sound.(rank: 5~1200s)
- **Record:** When it alarm, the camera will present red alarm and record.(rank:5~3600s)
- **Pop Video:** After the configuration, trigger the alarm, alarm window will pop out.

Second: After finish, click the Modify to save the data.

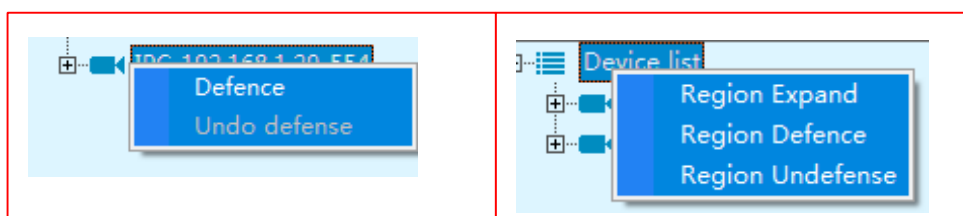
Third: Video channel associated plan, open "device management", and choose a video channel, manage the plan according with the alarm mode.



Forth: Click Modify to save data, then PC will alarm according to the settings.

Note: This option is effective for preview video channel.

Users can choose to select the arming or disarming the alarm signal processing to front-end device, in the device list, right-click on the menu bar device node in the device tree, select "arm" to start monitoring the alarm device, if the device is in armed state, right-click the device node, click the "disarming" to cancel the alarm monitoring equipment. Right-click the zone node and select "Zone Arm" or "Zone Disarm" for all devices can be operated under the zone. If the software has been carried out after arming alarm linkage set, when receiving an alarm signal, it will trigger the relevant linkage operation. Software restart, armed state will revert to the state before the shutdown.



3.4 Configuration Lead-in And Lead-out

3.4.1 Configuration Lead-in

Click "Configuration Management" on the menu bar; open the "Configuration Lead-in and Lead-out ", select "Data Lead-out" to lead-out the configuration file " SysConfig.conf " to the given content.

Note: " SysConfig.conf " cannot be modified, or the lead-in will fail.

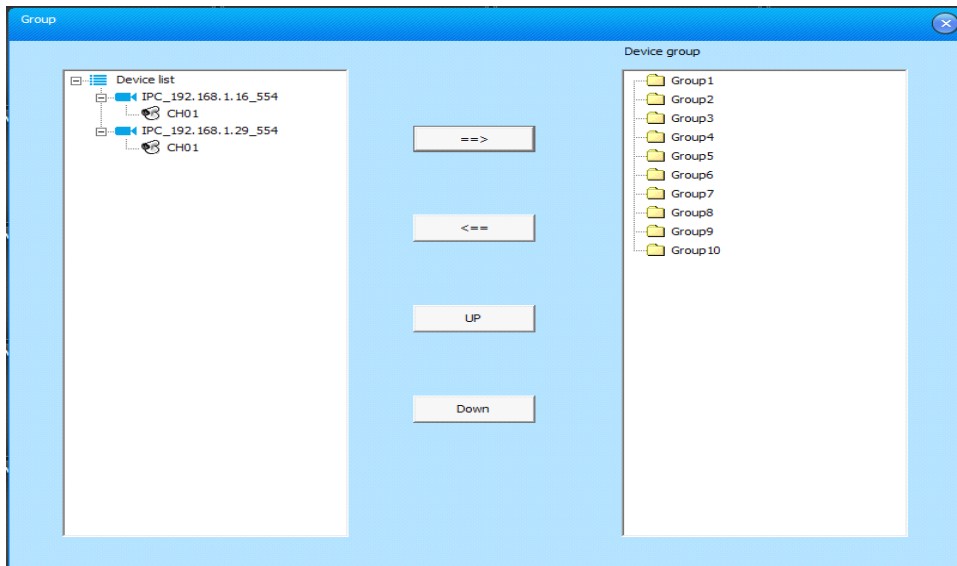
3.4.2 Configuration Lead-out

Click "Configuration Management" on the menu bar; open the "Configuration Lead-in and Lead-out ", select "Data Lead-out" and choose "SysConfig.conf" file. If succeeded, the data will be effective in the next restart of the Client.

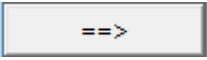
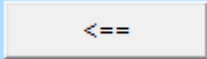
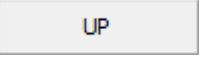
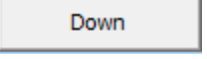
3.5 Group Management

The software supports polling group play and group play. Before the polling play, the device should be added and set well.

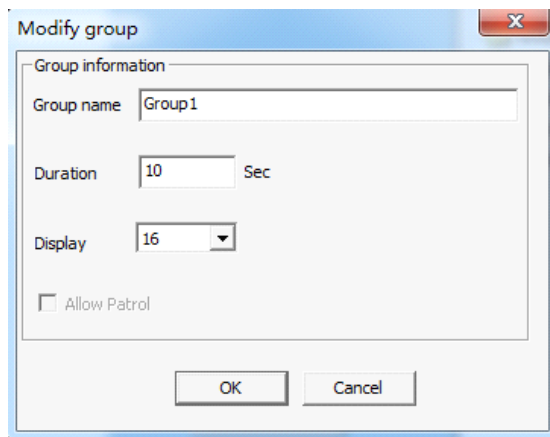
Click the Device Management; select the group management, as below picture:



The left side is the added device list, the right side group list, the four button's function is as below:


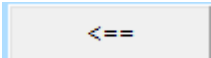
Button	Note
	Add the selected channel to one group.
	Selected channel will be deleted from group. When you click a group name, click the button, and then the entire group will be emptied.
	The channel Moves up to one position in the group when the channel is at the top, the button is gray, and this function is unavailable.
	The channel Moves down to one position in the group, when the channel is at the bottom, the button is gray, and this function is unavailable.

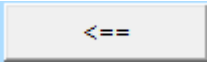
The user Right-clicks group name in the pop-up menu, select "Edit Group", then dialog box pops up as follows.



This is the explanation to the box:

Option	Note
Device Group	User defines group name.
Pause Time	Preview display time of the packet polling.
Division Quantity	Show the total number of the split-screen when group play, the number is generally consistent with the total number of channels.
Polling permission	Select this option allows the group to participate in the given polling packet, the group must supports polling play.

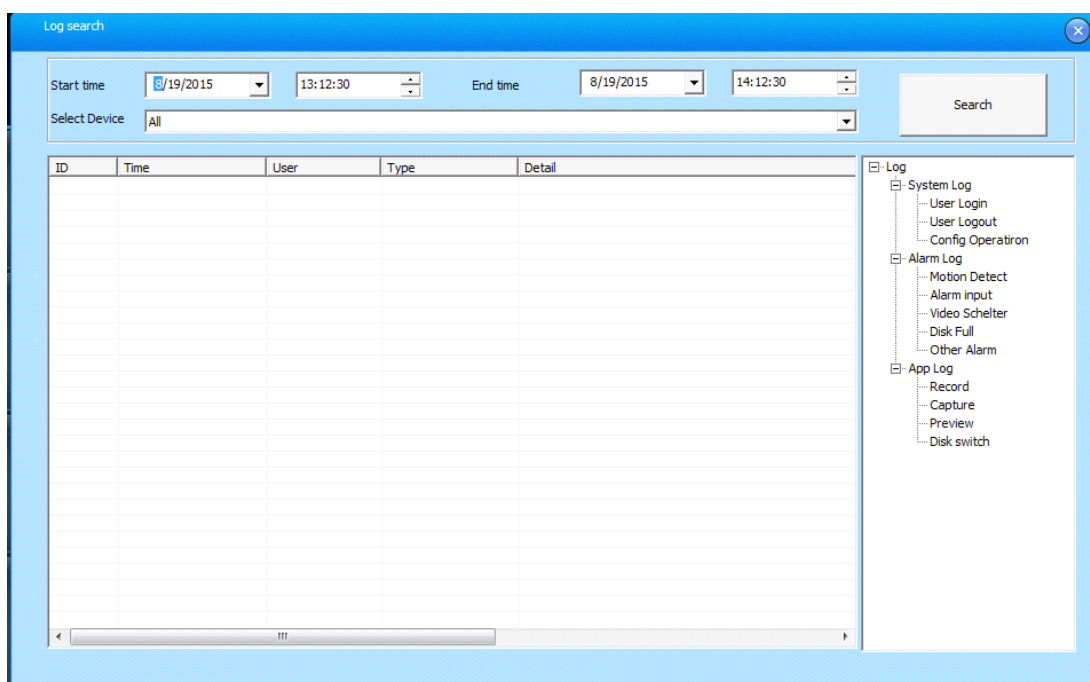
When you add a channel to a group, first need to click the group name to be added, then select the channel be added from the list of devices and then click . When you want to removed it from the channel group, first need to select the channel and then click , or right-click the channel name, then select "Delete channel" to delete the channel from the pop-up menu.

Skill: When user need to delete all channels under a group, just click the group name and then click , you can right-click the group name and then select "Delete Group" to empty a group in the pop-up menu.

4 Tools

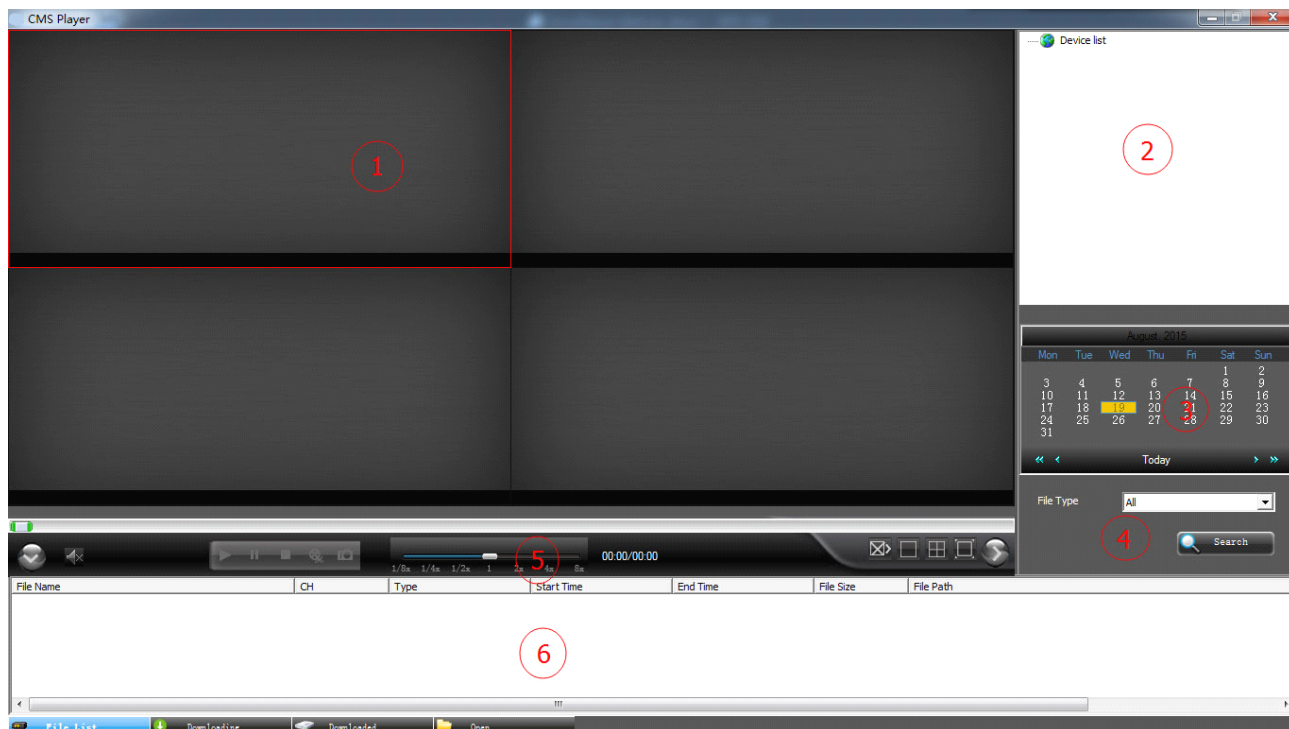
4.1 Log Management

Enter the "Tools" of menu bar and click "Log Search" interface, set the period of the log to be queried, select the mode and sub-mode of the log, click search, then the log will come out, as below picture:



4.2 Remote Replay

Enter the "Tools" menu on menu bar and click "Remote Replay Back" on the pop-up interface, as shown in this screen, you can view the video stored in NVR device



Introduction to the Remote Replay Interface:

Zone	Note	Zone	Note
1	Remote Replay window	2	Device list
3	Select time of Remote Replay	4	File Type Choice
5	Control bar of playing	6	List of Search results

4.2.1 Remote Video Retrieval

First: Select the date to be played back;

Second: Select the desired channel playback;

Third: Fill NVR device's IP address;

Fourth: Fill NVR device TCP port;

Fifth: Click the Search button to retrieve NVR video files, if the channel video files exist on that day, the search results will appear in the search results list area. At this time select a window, double-click the video to watch the video search results in the NVR device.

4.2.2 Remote Video Control

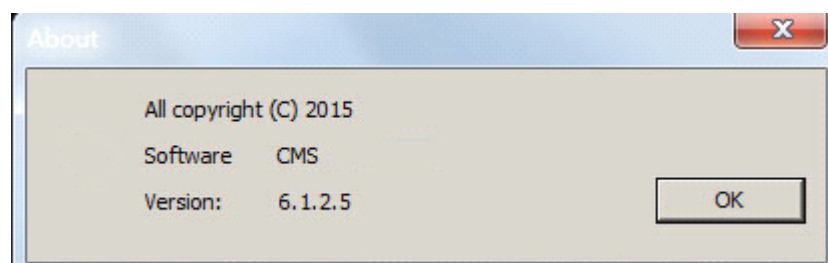


Introduction to the Remote Video Control:

NO.	Function	NO.	Function
1	Hide file list area	2	Voice
3	Play	4	Pause
5	Stop Play	6	Video editing
7	Picture-shoot	8	Speed control
9	All stop	10	1 split scree
11	4 split scree	12	Full screen
13	Hide workplace		

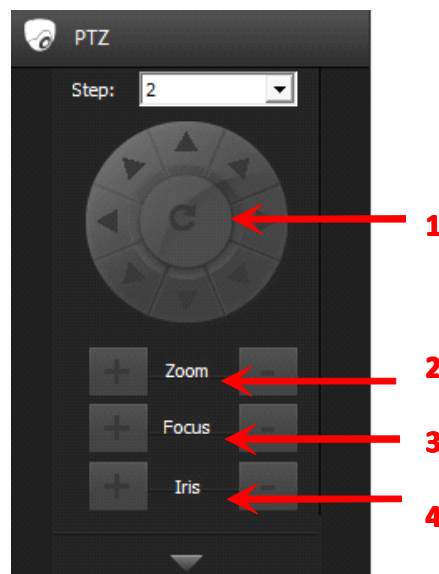
4.3 Version Information

Enter the "Tools" menu on menu bar and click "About" on the pop-up interface,The Version Information of CMS software is seen in the below picture:



5.1 PTZ Setup

Click the "PTZ" menu on the menu bar , it will show us as below picture:



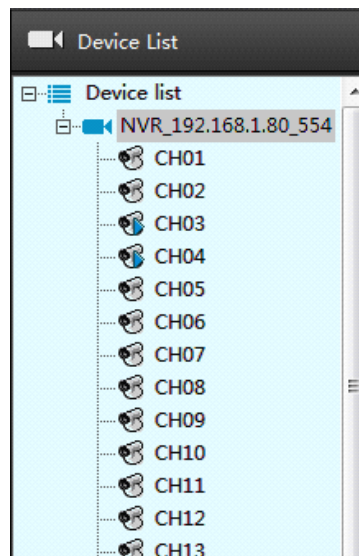
Introduction to the PTZ Control:

NO.	Function	NO.	Function
1	steering controls	2	Zoom
3	Focus	4	Iris

- Click or press on any "▶" button on the steering controls ,you can change the direction of the PTZ camera.
- Click "+" or "-" button on the zoom menu ,you can adjust the scenery near and far.
- Click "+" or "-" button on the Focus menu ,you can adjust the sharpness of the picture.
- Click "+" or "-" button on the Iris menu ,you can control through the lens of the light.

6 Picture Preview

Click the device list of the main menu, it will show us the device list Currently.




6.1 Watching Video

6.1.1 Free View Model

- **Double-click the channel to play:** Select one Play Window of the Video-viewing area, the channel will play in the Play Window. Under the Spilt Screen Preview Model, it will be shown as full screen when we double-click any preview frame and it will be restored when double-click again. The currently channel can be stopped by clicking the "✕" on the top right corner.
- **Click the right key to play:** Select any play window of the video-viewing area, right key the channel of the device tree, and then select "Open to Preview", the channel will play in the play window.
- **Drag the channel to play:** Select any channel of the device tree then hold down the mouse and the channel will start playing when it is dragged to any play window in the view area.
- **Multichannel Preview:** Select the Picture-division LNK tool in the Picture-division

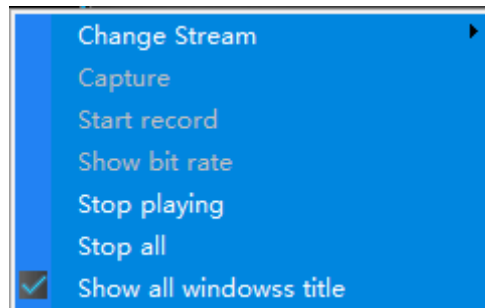


and the Polling toolbar , the frame can be displayed in 1, 4, 8, 9, 13 and 16 channels.

- **Picture Zoom:** We can adjust the scaling of digital and number by clicking the button of zoom in and zoom out  in preview window. The scaling can be adjusted by rolling the roller under the model of Number zooming out.

6.1.2 Right Menu

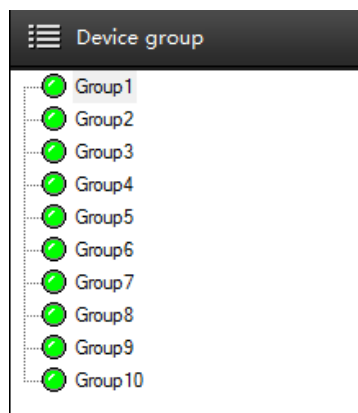
Select any play window in the video-viewing area, the user can do the following by right-clicking.



- **Stream Switching:** The main stream, stream 2 and stream 3 can be chosen to preview.
- **Picture zoom in:** Set the current channel as digital zoom in or number zoom in, the default is number zoom in.
- **Capture:** Capture the current time and the picture of the current channel, save it to the disk.
- **Start Recording:** Record the current channel and save it to the disk.
- **Stream:** Show the flow of the preview channel.
- **Color Set:** Make the color configuration of the current channel and the brightness, the contrast, the saturation and the sharpness.
- **Stop play:** Close the frame of all channel.
- **Show as original scale:** Zoom in pictures as the original scale.
- **Show the title bar of all windows:** Show the title bar of all windows.

6.1.3 Play In Groups


Click the " Device List " , show the device in groups.





Right-click the menu to play: Select any play window of the view area. Then right-click any group of the device list to select " Play in groups ". The group will start to play the channel of it in turn.

Drag the play group: Select a group in the group list, hold down the mouse button down, and drag it to view a play area in the window, the packet will change the playback window to start playing the packet channel in turn.

6.1.4 Polling Play In Groups

Start polling: Click the real-time panel "" to switch the play model to " Polling view model ", then the software will polling all groups set as polling with permission in turn.


Polling Pause/Restore: Click "" in the real-time panel, the software will pause polling. After pause, the button will change into "". Click the button again and it will restore the polling in groups.

Polling Finish: Click the "Play Model" then select the "Free view model", it will finish polling. "Polling Restore". Click the button again and it will restore the polling in groups.

Polling Finish: Click the "Play Model" then select the "Free view model", it will finish polling.



6.2 Manual Capture And Record

6.2.1 Manual Capture

- **Title capture:** Click the capture button  in title bar, it will capture the directly.
- **Right-click the menu to capture:** Right-click the play window, the context menu will be pop out, then select "Capture". It will show you "Capture Successful ".

Note: If the network environment is poor, have dropped the case the playback screen will appear the situation capture failure.


6.2.2 Manual Record

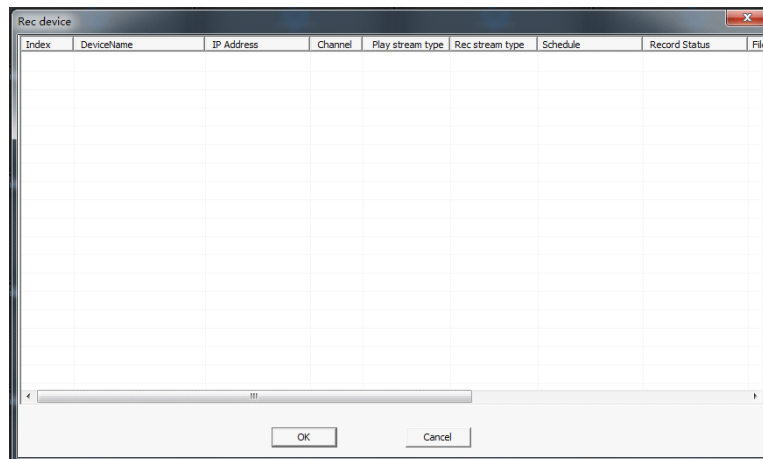
Window Title Video: Right-click the play window record button  in title bar, it will record the picture directly. At this time the record button becomes , click again to stop recording. At the same time there will be a red screen "Rec" prompt.

Right-click the menu to record: Right-click the play window, the context menu will be pop out, then select "Start record". The context menu will become checked, click again and the record can be stopped.

It will show us "Start Record" and "Finish Record" when we start or finish recording.


7.1 Status Of Record Channel

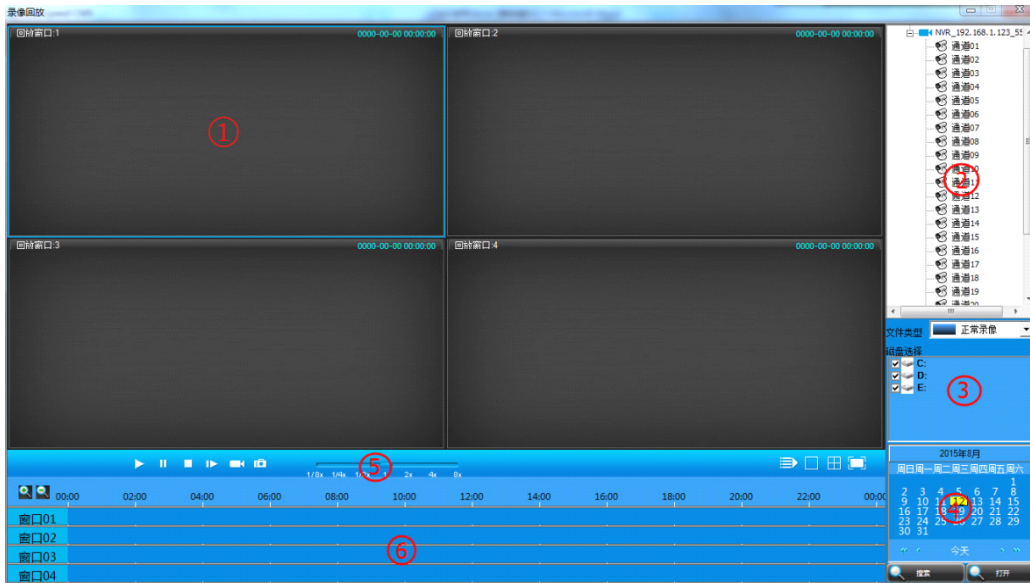
Select  in LNK tool bar of system and then enter the interface of record channel. It will show us the channel which is recording, the preview stream, the type of record channel stream, status of record channel, local save address and other messages. Shown as the following:



7.2 Record Playback

7.2.1 Introduction Of Play Back Interface

Select  in LNK tool bar of system, then enter Record Playback Interface.



Introduction of Playback Interface:


NO.	Introduction	NO.	Introduction
1	Record Playback	2	List of device tree
3	Local record disk	4	Search Panel
5	Play-control bar	6	Time line Panel

7.2.2 Record Search

Step 1: Select the window need to playback and then select the channel in device tree.


Step 2: Select the type of record file and the disk.

Step 3: Select search date.

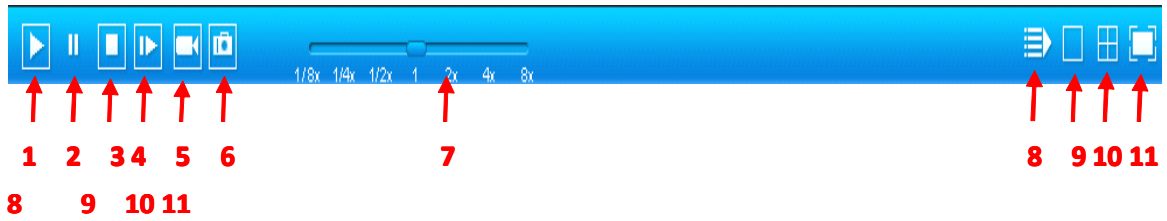
Step 4: Click  to search record file. Time line will show us the time bucket.

If there are some records in the time bucket, the time line will act as blue. (Alarm record is red)

If there are some record files on some day, it will replay the record files from the earliest time.

Step 5: When move the mouse on the timeline, the panel will show the time point. Click it and positioning records. The display scale of time line can be zoomed in or out by clicking  in time line.


7.2.3 Playback Control

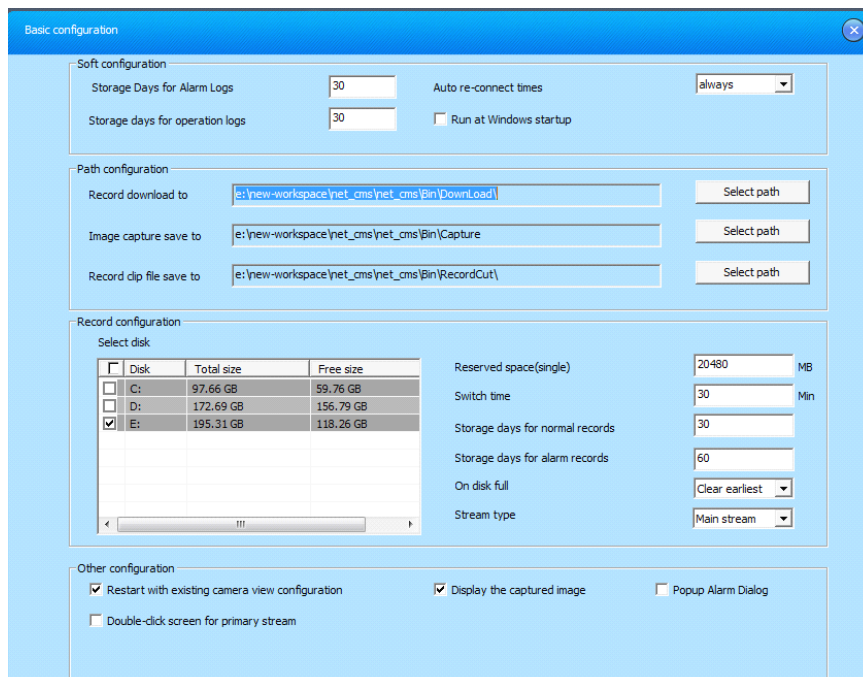


Introduction of Playback control bar is as the following:

NO.	Function	NO.	Function
1	Play	2	Pause
3	Stop	4	Playback Single Frame
5	Edit	6	Capture
7	Speed Adjustment	8	Full Stop
9	1 Picture Division	10	4 Picture Division
11	Full Screen		


7.3 Local Configuration

Monitoring Platform allow users to save in different disks. Click "" on the LNK tool bar and open the basic configuration window to do it.



- **Software Configuration:** Manage the alarm log, operation log, failure of video-connection and AUTO Exec.
- **Route Configuration:** Set the route of remote download, capture and video-editing.
- **Record configuration:** Set the route of video storage. There are multi-choices to choose. When it is checked, the monitoring platform will record from the disk which remains the biggest free space. And when the free space is little than 1024M, it will record from the next disk as default.
- **Single disk reserved space:** The free space that single disk can remain.
- **Switch time of record:** Set the time of every video.(Range: from 10 to 60 minutes)
- **Operation of full disk:** Choose to finish recording or delete the earliest file.
- **Restore the status of preview:** When it is checked, the software will start to enter the preview status quit at last time automatically.
- **Capture Display:** Preview captures, pictures will be pop out.
- **Pop out the alarm window automatically:** When the device alarms, the window of alarm channel will pop out automatically.
- **Double click the main stream to preview:** Double click the window, we will preview pictures with the main stream.

7.4 Log out

Select  in LNK tools bar of the system to enter log out interface. Users cannot log in the system unless the password is input.

