

HCMS Instructions

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Chapter one Software introduction

1.1 Summary

This software is a powerful, simple operation PC client software using stand-alone architecture, set multi-window, multi-user, multi-language, voice intercom, electronic maps, video walls and other functions, compatible with local and remote camera P2P camera. The software has electronic map function, friendly interface, simple operation, easy to set permissions.

This manual only describes the software for the operation, related to the specific function of the device, please read the product description.

This instruction is provided for anyone who is in charge of programming, executing, or reviewing the installment of hardware of network video monitoring system. You should have related basic operation knowledge and experience.

1.2 Functional features

1.2.1 User and permission setting

The system supports N-level organization management, user management and permissions management.

1.2.2 Data interface technique

All data interaction use data interface technique, flexible to support various kinds of large-scale, medium-scale, small-scale database, such as SQL、MYSQL、XML etc.

1.2.3 Support EXCEL sheet edit addition device

Platform supports the use of Excel to add and edit on the device, convenient for user to operate mass device maintenance, improving the usability of system and greatly reduce the work of maintenance for user.

1.2.4 Intelligent video transport protocol

Intelligent video transport protocol makes the most use of the network bandwidth, especially when front-end website network bandwidth is limited, system can guarantee normal operation while guarantee the image quality at very low network bandwidth.

1.2.5 Extensible distributed network structure

Support multiple servers` operation, intelligent load balancing, flexible to add servers and

guarantee the integrity at the same time, efficiently improve the processing capacity of system.

1.2.6 Perfect video monitoring function

System supports real-time monitoring, in the meantime, supports alarm video, automatic monitoring video, video replay etc, precisely control videos of different channel.

1.2.7 Dynamic regulation decoding buffering

Real-time monitoring is flexible to adjust the fluency of video image or instantaneity priority. Fluency and instantaneity meet different users' needs.

1.2.8 Shelf technique, modularization development, flexible assembly applications

The system uses shelf technology, hierarchical and modular development, has a wealth of intermediate service, they can easily assemble flexible solutions for various applications.

1.2.9 Centralized management

Whole system data is Centralized managed, data forwarding provide perfect real-time monitoring program for multiple users. Remote user can monitor in real-time and playback video online at anytime, anywhere.

1.2.10 Good operability

Under the control of permission, user can easily control and set every monitoring site through system client. System also integrated electronic map.

1.2.11 High integration

System integrated other information such as alarm messages, vocal messages etc.

1.2.12 High reliability

System designed specialized fault-tolerant measure,insure data integrity and reliable operation.

1.2.13 Good expansibility

Service-oriented systems design, good scalability and adaptability, can maximize the protection of user investment.

1.2.14 Support Chinese and English language

1.2.15 Support 4-ch replay synchronically

1.2.16 Connecting multiple devices and watching multiple videos synchronically (real-time monitoring and replay)

Chapter two installment instruction

2.1 Operation environment requirement

2.1.1 Hardware

CPU P4/2.0G

Video card must support hardware zoom(such as ATI、TNT2 PRO)(Suggest to use ATI9800 or above, two-channel)video memory above 128M /128bit

Note: If decode lots of images, configure better storage, video card, and CPU

Network card: 100/1000M

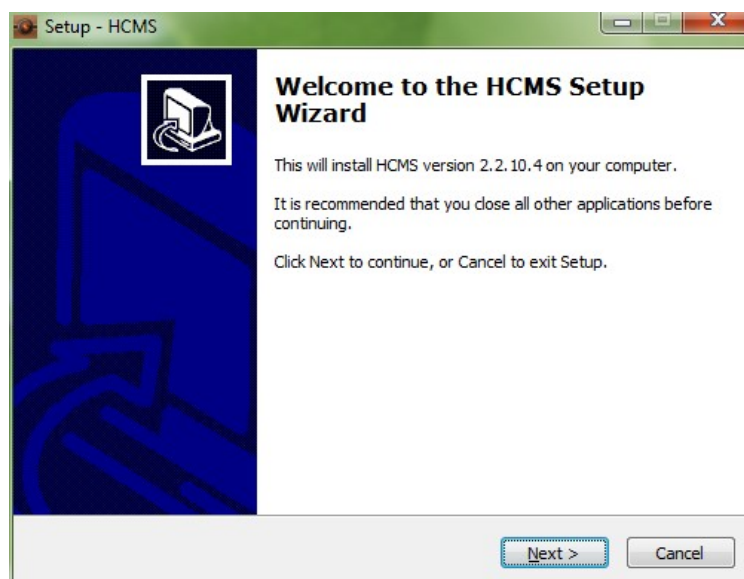
2.1.2 Software

This software supports Win7/Vista/WinXp/Win2000/Win2003/Win2007; suggest not operating at Windows 98.

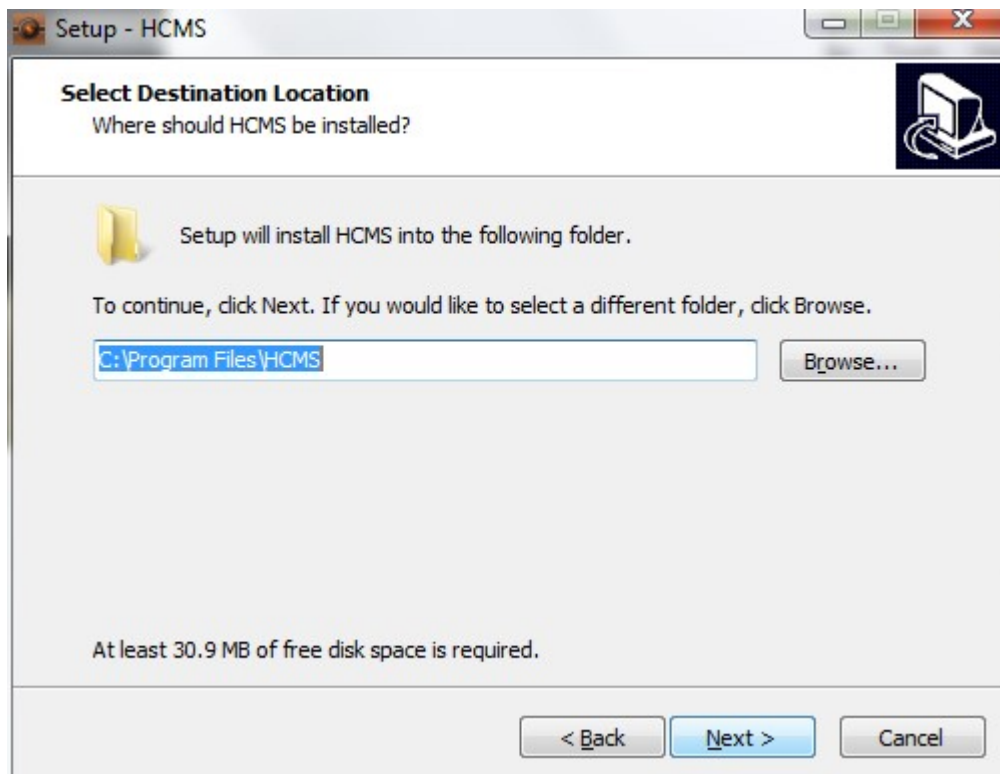
Please close all using antivirus programs, firewalls so that convenient for control center operation program to write in completely and right, otherwise it might not to search the device.

2.2 Installment steps

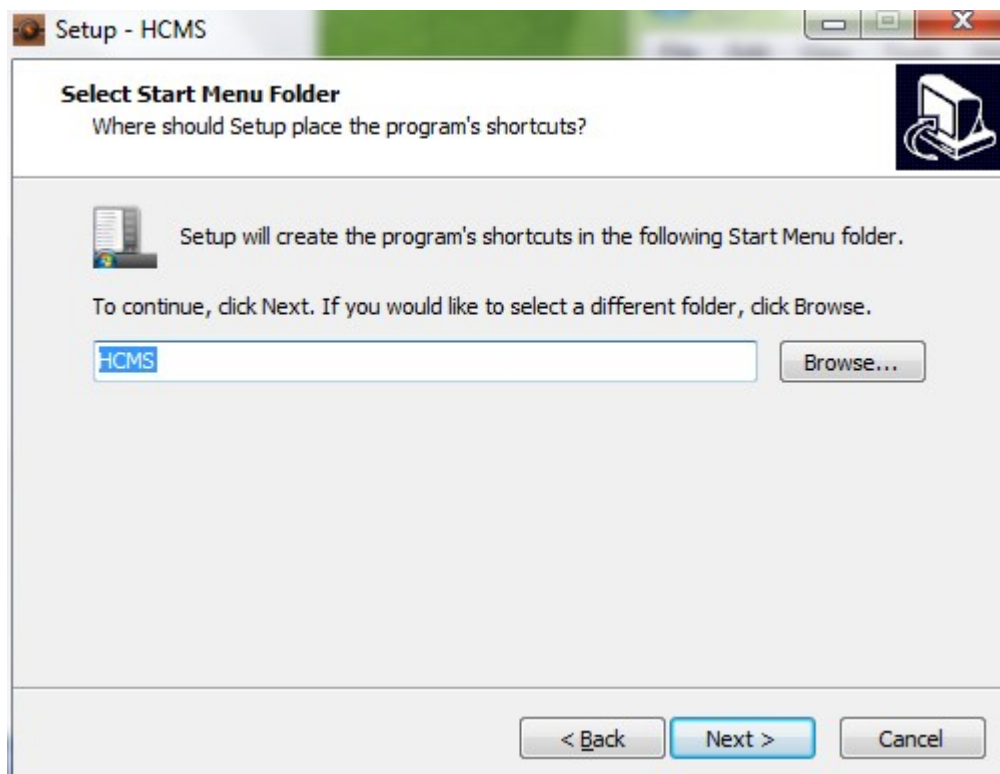
1) Find and double click file“HCMS_2.2.10.4.exe”, Pop-up following dialog box.



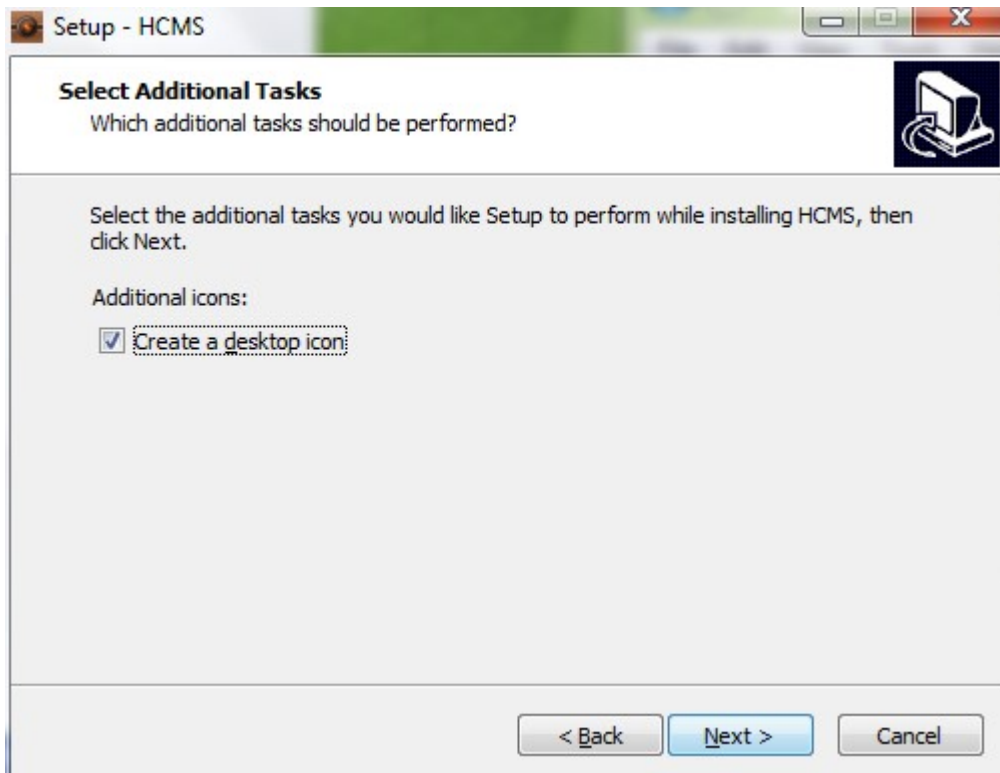
- 2) Click “Next” button, pop-up following dialog box, can choose installment path. System default folder is “C:\Program Files\HCMS”



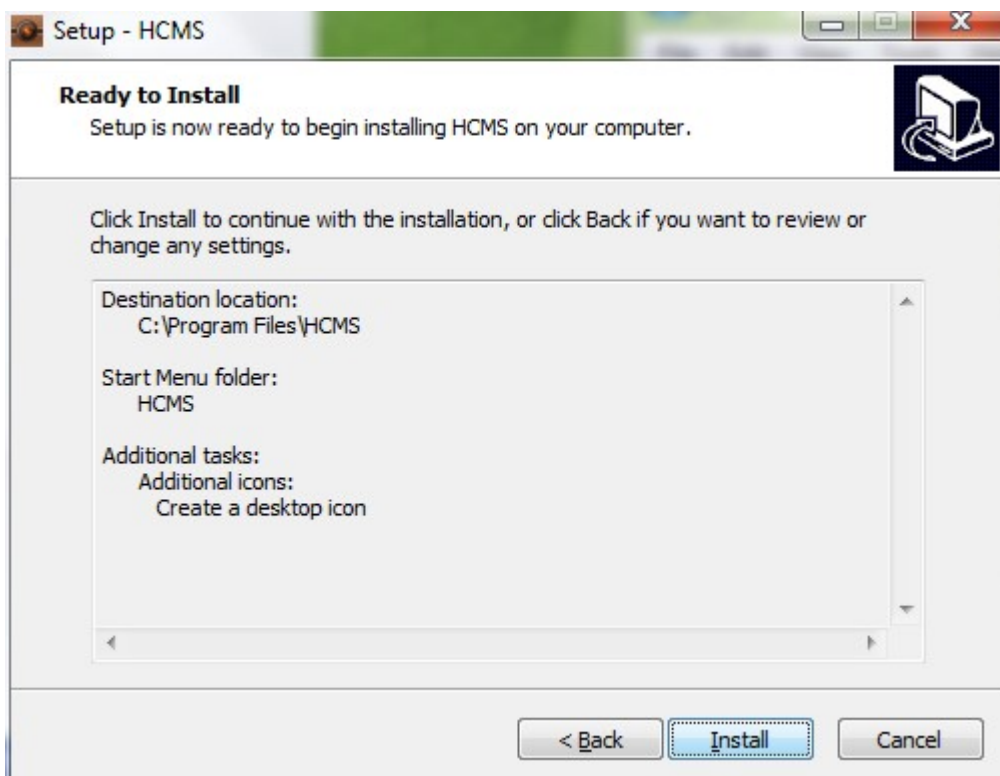
- 3) Click “Next” button, pop-up following dialog box



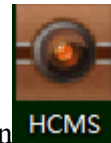
- 4) Click “Next” button, pop-up following dialog box. Choose whether to create desktop shortcut icon or not.



- 5) Click “Next” button, start to install HCMS, pop-up following dialog box



6) Click 'Next' to install. As following



- 7) Click 'Finish' to finish installment. Then desktop will appear following icon
- 8) Finishing installment, double desktop icon, pop-up login box, default filled user name admin, password admin, click login to enter software operation interface.
- 9) Finishing installment, use the control software according to 3,4,5,6,7 chapter.

Chapter three Basic function introduction

3.1 HCMS operation interface



Table 3-1 main interface function zone distribution

No.	Name	Effect
①	Device list area	Displays the current added device
②	Image preview area	Real-time image preview and playback
③	Software version display area	Displays the current software version number
④	Preview number of channels control area	Select the number of channels of live preview
⑤	Main menu	Select submenu and functions

3.1.1 Device list area

"Device list area" can be used to display a preview of the current channel. Users can preview the scene accordingly, can also use right click to choose basic operation. In the meantime, device list area shows added managed local device and remote device.

3.1.2 Image preview area

During the image preview, the user can screen "Image preview area" preview site. While the right mouse button, and the video retrieval system configuration parameter settings.

3.1.3 Software version display area

Display current client software version.

3.1.4 Preview number of channels control area

Switching control the number of image at image preview area

3.1.5 Main menu

User can choose single menu and its submenu to operate the setting, specific function menu structure.

Chapter four Image preview










At menu area, after user click “device list area”, operation will appear the scene. The main function of image preview: preview PTZ configuration and video parameter setting.






This chapter specifically introduces every sub-function and its parameter setting of image preview.

4.1 Preview function

User can choose the way of preview the scene at Preview number of channels control area, can screenshot single image of every channel, can also close preview. Following is description of every function button.

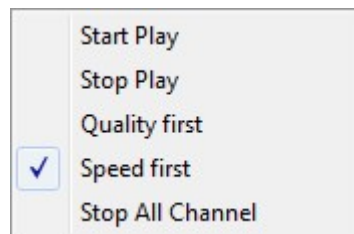
Table 4-1 Preview image function button description

No.	push button	Button Description
1		“Big-picture preview” button. Click it can preview every channel in big-picture mode.
2		“4-picture preview” button. Click it can preview every channel in 4-picture mode.
3		“6-picture preview” button. Click it can preview every channel in 6-picture mode.
4		“7-picture preview” button. Click it can preview every channel in 7-picture mode.
5		“8-picture preview” button. Click it can preview every channel in 8-picture mode.
6		“9-picture preview” button. Click it can preview every channel in 9-picture mode.
7		“13-picture preview” button. Click it can preview every channel in 13-picture mode.
8		“16-picture preview” button. Click it can preview every channel in 16-picture mode.
9		“20-picture preview” button. Click it can preview every channel in 20-picture mode.

No.	push button	Button Description
10		“25-picture preview” button. Click it can preview every channel in 25-picture mode.
11		“36-picture preview” button. Click it can preview every channel in 36-picture mode.
12		“49-picture preview” button. Click it can preview every channel in 49-picture mode.
13		“64-picture preview” button. Click it can preview every channel in 64-picture mode.
14		“Full screen” switch button. Click it can enter or exit full screen preview image.

4.2 Right-click menu

In the preview picture at image preview area, user can click right-click for following operation:



Start play: start the scene in the current channel.

Stop play: close the scene in the current channel.

Quality first: Select this option to use the main stream live video preview.

Speed first: Select this option to use the main stream live video preview.



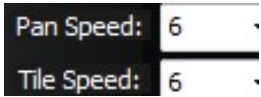
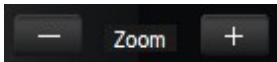


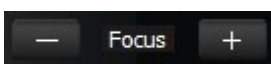


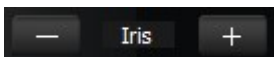


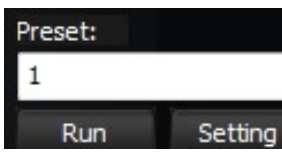
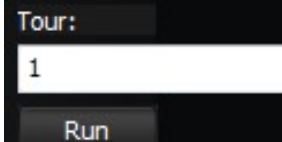


Stop All Channel: Stop all real-time previews.

4.3 PTZ control

User can control in the control center after the network video monitoring service connected to fast ball.

User can control the turning way and rate of fast ball at the PTZ operation panel. Following is the description of every function button.

Table 4-2 PTZ operation panel function buttons description

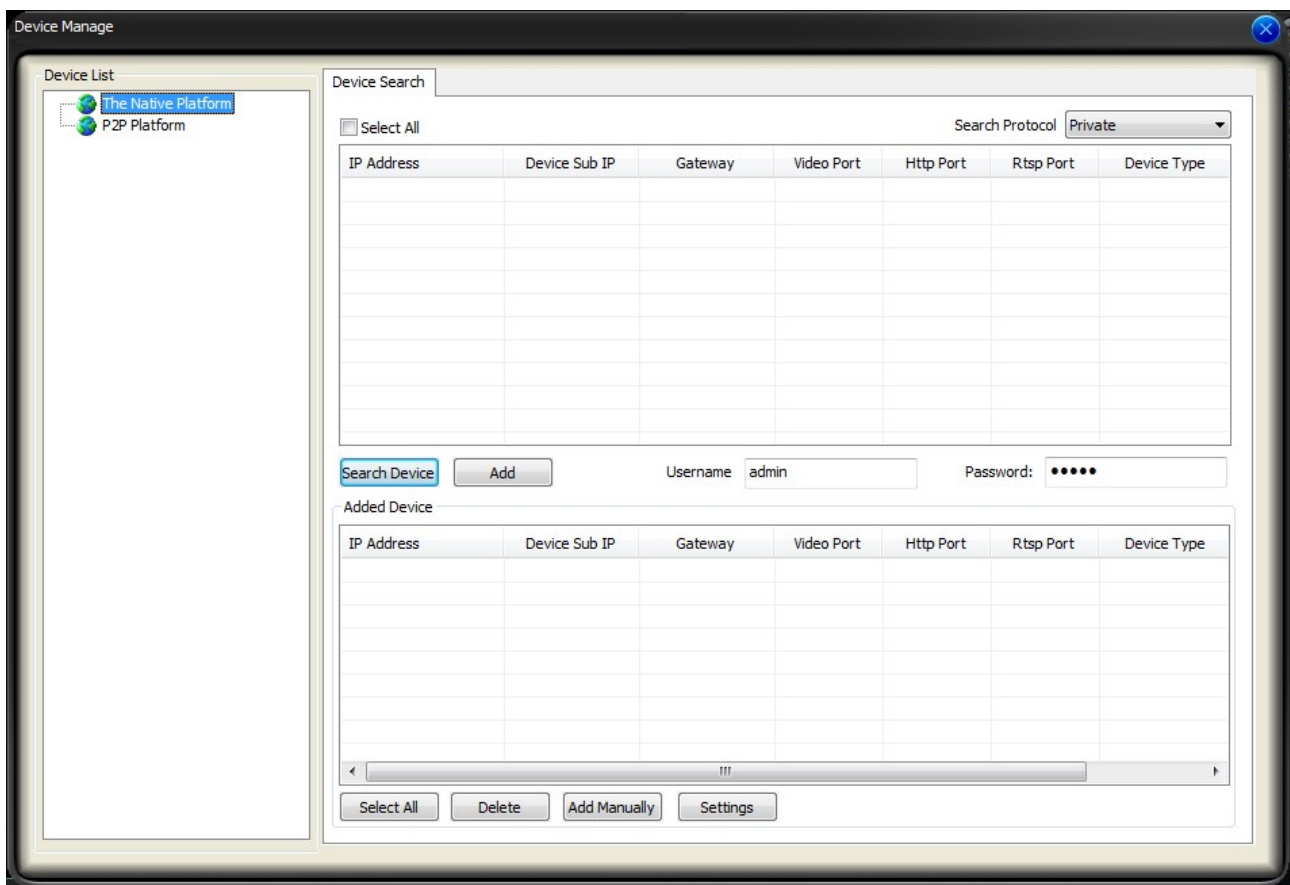
No.	push button	Button Description
1		Control the direction of high-speed dome by 
2		Adjust the turning rate by justifying digit. The larger number, the faster.
3		Zoom button. Click  can zoom in the scene of the channel; click  , can zoom out or restore the scene.
4		Focus length button. Click  , can lengthen focus length; Click  button, can shorten focus length.
5		Iris button. Click  , can increase the sunlight of fastball. Click  , can reduce the sunlight of fastball.
6		Preset spots means that users preset video monitoring spots for monitoring some special location at the scene. Add, delete and set preset spots.
7		Cruise path means users use presetted spots to set the motion path of the fastball. While cruising, fastball will appear every preset spots according to the setting.
8		Horizontal scan means users use presetted spots to set the motion path of the fastball. While horizontally scanning, fastball will appear every preset spots according to the setting.
9		Diversely scan means users use presetted spots to set the motion path of the fastball. While diversely scanning, fastball will appear every preset spots according to the setting.

Chapter Five Configuration Management

5.1 Device management

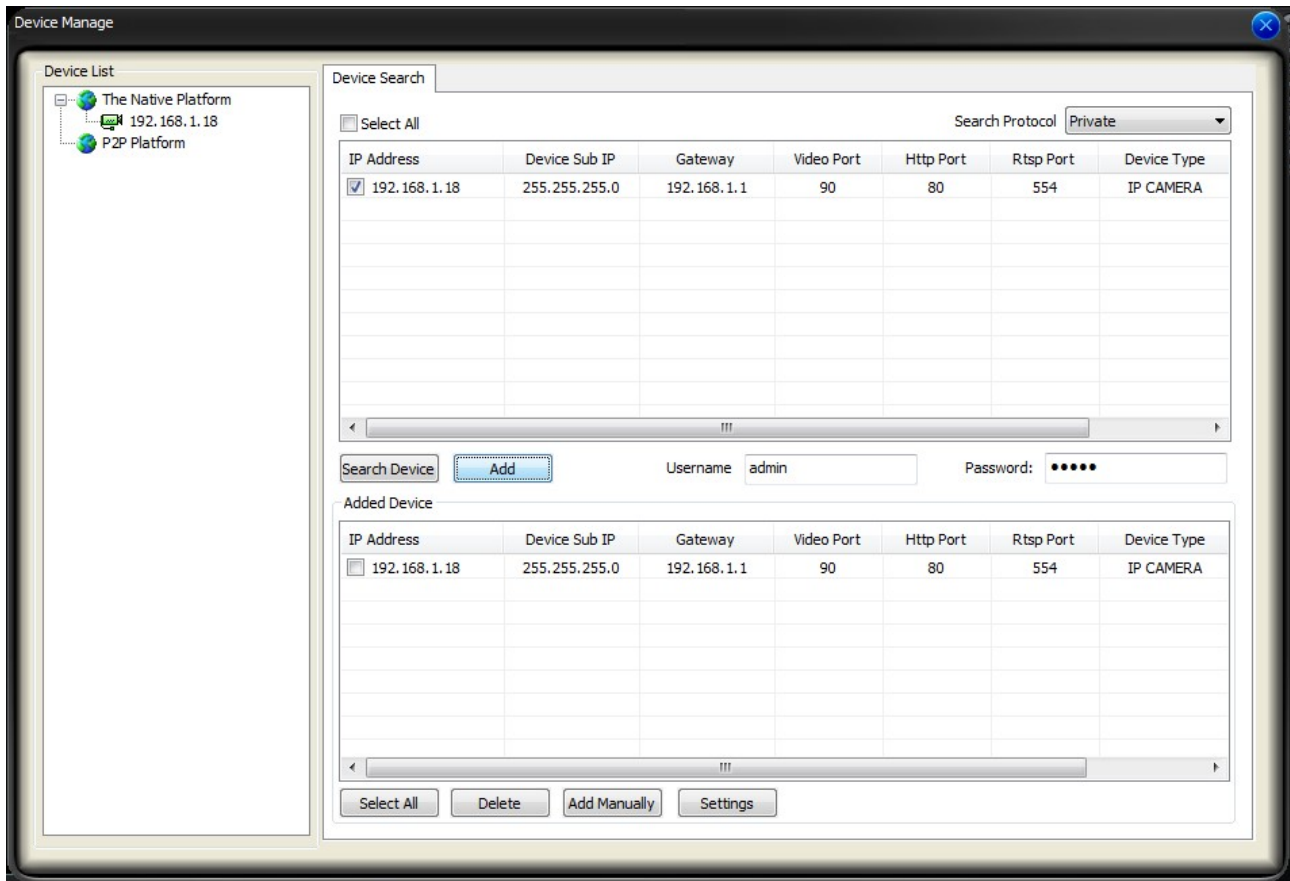
5.1.1 Device Management Interface

Click configuration management-device management, as following



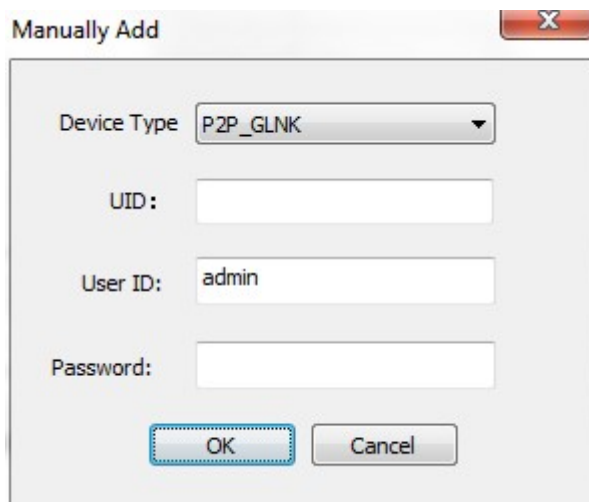
5.1.2 Search for and add equipment

Click the Search button to search for the device, search for the device to display at the top; click Add to select the device to be added later, showing the added equipment that has been added device.



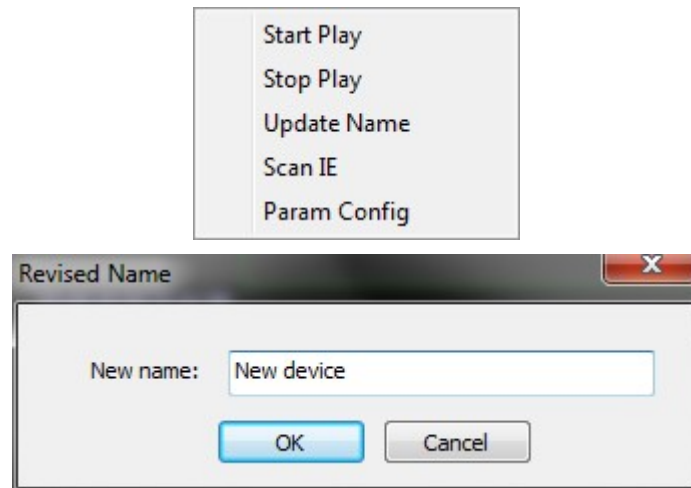
5.1.3 Manually Add Device

Manually add remote device, click manually add, fill “remote device UID” in the pop-up box, and save; the device displays “managed” after saved. Update in the list.



5.1.4 Device Context Menu

Modify device Select device name in the list, right-click to open shortcut menu, can choose to change the name of monitor. Enter edit menu.



Modify the name setting, click confirm after modified.

5.1.5 Delete device

Select device names in the device management menu; click delete to delete the device.

5.2 System Config

Select system configuration in configuration management to enter system configuration interface.

The screenshot shows the 'System Config' window with the following sections and settings:

- System basic setup:**
 - Language: English
 - Mode: IVS version
 - ☒ Login all devices
 - ☐ Auto pop up alarm information dialogue
 - Displayed items in right bar: Device List
 - ☒ Verify password
 - ☐ Load decode card when system boots up
 - ☐ Auto Start record plan
 - Preview Video: ☒ System default open mode
 - ☒ Get all devices' running status.
- Record basic setup:**
 - Snapshot picture: C:\HCMS\Picture
 - Recorded file Disk:

SN	Disk Flag
<input type="checkbox"/> 1	C:
<input checked="" type="checkbox"/> 2	D:
<input checked="" type="checkbox"/> 3	G:
 - Device free minimum capacity(MB): 2000
 - Record Time(Minute): 15
- Auto start monitor setup:**
 - Auto Start Project: ☐ Yes/No
 - Project Name: [dropdown]
 - Auto Start Task: ☐ Yes/No
 - Task Name: [dropdown]
 - ☐ Last Run
- Sync Time Setup:**
 - ☒ Auto sync PC time to device
 - Sync Time becomes valid at: 23:59:59
 - ☐ Auto reboot device
 - Week: ☒ Sun. ☒ Mon. ☒ Tues. ☒ Wed. ☒ Thurs. ☒ Fri. ☒ Sat.
- Alarm record basic setup:**
 - Alarm record max amount: 999
 - ☐ Use pop-up window to display the alarm video.

Buttons: Save, Cancel

5.2.1 System basic setup

This section shows the 'System basic setup' area with the following settings:

- Language: English
- Mode: General Version
- ☒ Login all devices
- ☐ Auto pop up alarm information dialogue
- Displayed items in right bar: Device List
- ☒ Verify password
- ☐ Load decode card when system boots up
- ☐ Auto Start record plan
- Preview Video: ☒ System default open mode
- ☒ Get all devices' running status.

Language: Choose HCMS language, currently support Chinese and English.

Mode: Choose HCMS working mode, there are regular version and intelligent version.

Verify Password: Choose that whether to verify password when log in client side.

Load decode card when system boots up: Choose that whether to automatically log in when start the software.

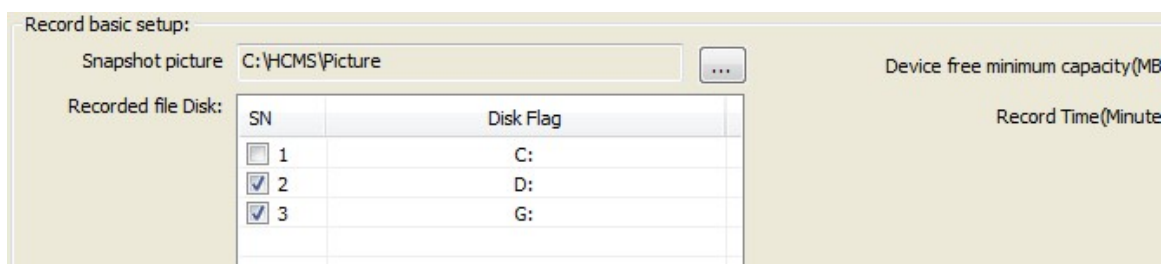
Auto login System: Choose that whether to automatically start the client side when starting up.

Auto Start record plan: Choose whether to automatically start recording when you open the software program.

Auto pop up alarm information dialogue: Choose that whether to automatically pop-up alarm window when has alarm information.

Displayed items in right bar: When you start the software, the default right of the toolbar item Expand

5.2.2 Record basic setup



Record basic setup:

Snapshot picture: C:\HCMS\Picture

Recorded file Disk:

SN	Disk Flag
<input type="checkbox"/> 1	C:
<input checked="" type="checkbox"/> 2	D:
<input checked="" type="checkbox"/> 3	G:

Device free minimum capacity(MB)

Record Time(Minute)

Snapshot picture: Choose to capture a snapshot picture save path, the default path is C: \ HCMS \ Picture, editable

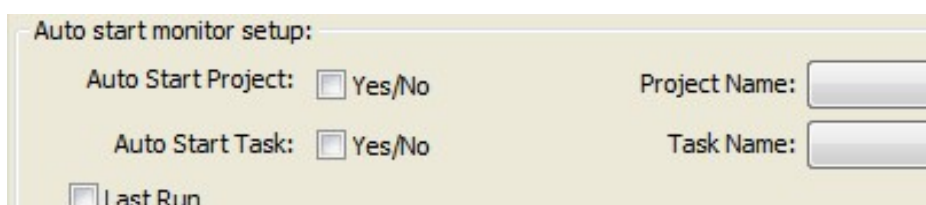
Recorded file Disk: Select path to save the video file, select the drive supports only the default build folder HCMS, video storage

Device free minimum capacity (MB): hard disk space is less than the set value, switch storage drive or stop recording

Record Time (Minute): set the duration of single videoing file when manually videoing.

5.2.3 Auto start monitor setup

Start monitoring configuration, including configuring auto plan and auto task.



Auto start monitor setup:

Auto Start Project: ☐ Yes/No

Auto Start Task: ☐ Yes/No

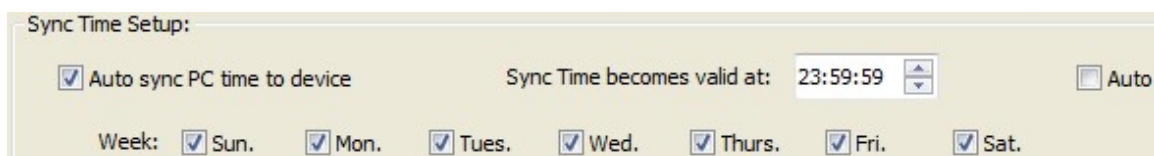
☐ Last Run

Project Name:

Task Name:

5.2.4 Sync time setup

Choose that whether to start auto time correcting; when to correct, and time correcting cycle setting.



Sync Time Setup:

☒ Auto sync PC time to device

Sync Time becomes valid at: 23:59:59

☐ Auto

Week: ☒ Sun. ☒ Mon. ☒ Tues. ☒ Wed. ☒ Thurs. ☒ Fri. ☒ Sat.

5.2.5 Alarm record basic setup

Choose alarm history basic configuration, can configure the maximum number of alarm history.

Alarm device can be set individually for the pop-up video window.

Alarm record basic setup:

Alarm record max amount:

☐ Use pop-up window to display the alarm v

5.3 Record Plan Config

Choose device in the device list after click video program configuration to configure personalized video program for every device.

Record Plan Config

Device List

- The Native Platform
- New device
- P2P Platform

Record Plan Info

☒ Enable ☐ Disable Record Plan Pack Time: 15

Record Plan Pic

Dev Id: 000000000000002A2BFD103B0000 Dev Channel: 0001

Tip: left click and drag to select right button drag, clear, double-click time can enlarge or reduce the proportion of time.

	00:00	02:00	04:00	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00
Sun												
Mon												
Tue												
Wed												
Thu												
Fri												
Sat												

Select All Clear All

Save

5.4 Alarm Config

Trigger the alarm (motion detection, alarm input / output, network alarm) conducted a series of linkage settings.

Alarm Device List

The Native Platform

New device

P2P Platform

Alarm Input 1

☒ Open Alarm

Alarm ID: 00000000000000002A2BFD103B000001

Alarm Name: 报警输入1

Alarm Video: 1

Alarm Level: 1

☒ Alarm Audio

☒ Alarm Record

Alarm Input 2

☒ Open Alarm

Alarm ID: 00000000000000002A2BFD103B000002

Alarm Name: 报警输入2

Alarm Video: 1

Alarm Level: 1

☒ Alarm Audio

☒ Alarm Record

Motion

☒ Open Alarm

Alarm ID: 00000000000000002A2BFD103B000003

Alarm Name: 移动侦测

Alarm Video: 1

Alarm Level: 1

☒ Alarm Audio

☒ Alarm Record

智能报警

☒ 启用报警

报警ID: 00000000000000002A2BFD103B000004

报警名称: 智能报警

关联画面: 1

优先级: 1

☒ 联动声音

☒ 联动录像

5.5 User management

For users and a corresponding increase in user rights and manage clients.

User Info List

User ID	User Name	Sex	Tip
admin	admin	Male	

User Info

User ID: admin

Password: ●●●●●

Confirm: ●●●●●

User Name: admin

Sex: Male

Tip:

Right:

☒ Device Manag

☒ System Config

☒ Record Plan Config

☒ Device Config

☒ E-map Config

☒ Task Config

☒ PTZ Direction

☒ Alarm Config

☒ User Manage

☒ Select All

Appendix Acronyms

Abbreviation	Full name
HCMS	High center manager system
NVR	Network Video Recorder
PTZ	Pan/Tilt/Zoom
TCP/IP	Transmission Control Protocol/Internet Protocol