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"

💁 Setup - HCMS	
Select Destination Location Where should HCMS be installed?	
Setup will install HCMS into the fol	owing folder.
To continue, click Next. If you would like to	select a different folder, click Browse.
C:\Program Files\HCMS	Browse
At least 30.9 MB of free disk space is requir	ed.
	< Back Next > Cancel

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

Setup - HCMS	
Select Start Menu Folder Where should Setup place the program's shortcuts?	
Setup will create the program's shortcuts in the following Start	t Menu folder.
To continue, click Next. If you would like to select a different folder, clic	ck Browse.
HCMS	Browse
< <u>B</u> ack Next >	Cancel

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

Setup - HCMS	100 C 100	
Select Additional Tasks Which additional tasks sh	ould be performed?	
Select the additional task click Next. Additional icons:	s you would like Setup to perfor	m while installing HCMS, then
	< <u>B</u> ack	Next > Cancel

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

Setup - HCMS	x
Ready to Install Setup is now ready to begin installing HCMS on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\HCMS Start Menu folder: HCMS Additional tasks:	*
Create a desktop icon	-
< Back Install Ca	ancel
< <u>B</u> ack <u>I</u> nstall Ca	ancel

6) Click 'Next' to install. As following



- 7) Click 'Finish' to finish installment. Then desktop will appear following icon HCMS
- 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

HCMS	V2.2.10.4 Current user: admin		80-0	
3		◧◧▱▨◈◁◪	Device List	•
			The Native Pl	atform
			<	
			PTZ Direction	•
			PTZ Advanced	•
			5 Tools	Ð
			Config Manager	•
l				
	Task Alarm Rec. Plavback E-man Config VideoWall			

Table 3-1 main interface function zone distribution

No.	Name	Effect	3.1	
1	Device list area Displays the current added device			
2	Image preview area	Real-time image preview and playback		
3	Software version	Displays the current software version number		
	display area			
4	Preview number of	Select the number of channels of live preview		
	channels control area			
5	Main menu	Select submenu and functions		

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	"25-picture preview" button. Click it can preview every channel in 25-picture mode.
11	36	"36-picture preview" button. Click it can preview every channel in 36-picture mode.
12	49	"49-picture preview" button. Click it can preview every channel in 49-picture mode.
13	64	"64-picture preview" button. Click it can preview every channel in 64-picture mode.
14	B	"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.t

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.

No.	push button	Button Description
1		Control the direction of high-speed dome by
2	Pan Speed:6Image: speed:Tile Speed:6Image: speed:	Adjust the turning rate by justifying digit. The larger number, the faster.
3	— Zoom +	Zoom button. Click + can zoom in the scene of the channel; click - , can zoom out or restore the scene.
4	— Focus +	Focus length button. Click + , can lengthen focus length; Click - button, can shorten focus length.
5	— Iris +	Iris button. Click +, can increase the sunlight of fastball. Click -, can reduce the sunlight of fastball.
6	Preset: 1	Preset spots means that users preset video monitoring spots for monitoring some special location at the scene. Add, delete and set preset spots.
7	Tour: 1 Tour: Run	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	Auto Pan: 1 v Run Setting	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	Pattern: 1 ▼ Run Setting	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.

Table 4-2 PTZ operation panel function buttons description

Chapter Five Configuration Management

5.1 Device management

5.1.1 Device Management Interface

Click configuration management-device management, as following

bevice Hanage							\sim
Device List	Device Search						
P2P Platform	Select All				Searc	ch Protocol Priva	ate 🔻
	IP Address	Device Sub IP	Gateway	Video Port	Http Port	Rtsp Port	Device Type
	Search Device	Add	Username ad	lmin	Pas	sword: •••••	
	Search Device	Add	Username ad	lmin	Pas	sword:	
	Search Device Added Device IP Address	Add Device Sub IP	Username ad	lmin Video Port	Pas Http Port	Rtsp Port	Device Type
	Search Device	Add Device Sub IP	Username ac	lmin Video Port	Pas Http Port	Rtsp Port	Device Type
	Search Device	Add Device Sub IP	Username ac	lmin Video Port	Pas Http Port	Rtsp Port	Device Type
	Search Device Added Device IP Address	Add Device Sub IP	Username ac	lmin Video Port	Pas Http Port	Rtsp Port	Device Type
	Search Device	Add Device Sub IP	Username ac	Imin Video Port	Pas Http Port	Rtsp Port	Device Type
	Search Device	Add Device Sub IP	Username ad	Imin Video Port	Pas Http Port	Rtsp Port	Device Type
	Added Device	Add Device Sub IP	Username ad	Imin Video Port	Pas Http Port	Rtsp Port	Device Type
	Search Device Added Device IP Address	Add Device Sub IP	Username ad Gateway III Settings	Imin Video Port	Pas Http Port	Rtsp Port	Device Type
	Search Device	Add Device Sub IP	Username ad Gateway III IIIy Settings	Imin Video Port	Pas Http Port	Rtsp Port	Device Type

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.

Device List	Device Search		_	-	-	-		
- The Native Platform	Select All	Select All Search Protocol Private						
P2P Platform	IP Address	Device Sub IP	Gateway	Video Port	Http Port	Rtsp Port	Device Type	
	☑ 192.168.1.18	255.255.255.0	192.168.1.1	90	80	554	IP CAMERA	
	Search Device Added Device	Add	Username ad	min	Pas	ssword:	4	
	IP Address	Device Sub IP	Gateway	Video Port	Http Port	Rtsp Port	Device Type	
	192.168.1.18	255.255.255.0	192.168.1.1	90	80	554	IP CAMERA	
							•	
	Select All D	elete Add Manua	lly Settings					

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.

Manually Add		x	
Device Type	P2P_GLNK		
UID:			
User ID:	admin		Device List
Password:			The Native Platform
	OK Cancel		92P Platform

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.

	Start Play	
	Stop Play	
	Update Name	
	Scan IE	
	Param Config	
Revised Name		×
New parece	New device	
New name:		
	OK Cancel	

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.

System Config			
System basic setup: Language: (Login all devices Auto pop up alarm info	English Mode: IVS version IVS version Load decode card when system boots up Auto Start record plan formation dialogue Auto login System Preview Video: Displayed items in right bar: Device List IVS version		
Record basic setup: Snapshot picture C: Recorded file Disk: S	C: \HCMS\Picture Device free minimum capacity(MB): 2000 SN Disk Flag 1 C: 2 D: 3 G:		
Auto start monitor setup: Auto Start Project: Auto Start Task: Last Run Sync Time Setup:	Yes/No Project Name: Yes/No Task Name:		
Auto sync PC time to o Week: Sun. Alarm record basic setup: Alarm record max amount Use pop-up window to	b device Sync Time becomes valid at: 23:59:59 A CAuto reboot device V Mon. V Tues. V Wed. V Thurs. V Fri. V Sat. ht: 999 to display the alarm video.		
		Save	Cancel

5.2.1 System basic setup

System basic setup:		
Language: English 🗸	Mode: General Version 🔻	Verify password
Login all devices	Load decode card when system boots up	Auto Start record plan
Auto pop up alarm information dialogue	Auto login System Preview Video:	🗹 System default open mode
Displayed items in right bar:	Device List	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 V	Picture	 Device free minimum capacity(MB):	2000
Recorded file Disk:	SN	Disk Flag	Record Time(Minute):	15 🔻
	1	C:		
	V 2	D:		
	V 3	G:		

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	Project Name:	
Auto Start Task:	Yes/No	Task Name:	
📃 Last Run			

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	o device	Syr	nc Tim <mark>e beco</mark> n	nes valid at:	23:59:59		Auto reboot device
Week: 🔽 Sun.	V Mon.	🔽 Tues.	Ved.	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:	999
Use pop-up window to a	display the alarm video.

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	\sim
Device List	
The Native Platform Mew device P2P Platform	Record Plan Info
	Enable Disable Record Plan Pack Time: 15
	Dev Id: 000000000002A2BFD103B0000 Dev Channel: 0001
	Tip: left click and drag to select right button drag, dear, double-click time can enlarge or reduce the proportion of time.
	Sun
	Mon
	Wed
	Fri
	Sat
	Select All Clear All
	Save Cancel

5.4 Alarm Config

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

Alarm Device List Alarm Input 1	Alarm Config			X
Alarm Input 2 ⑦ Open Alarm Alarm ID: 000000000002A2BFD 1038000002 Alarm Name: 报警输入2 Alarm Nideo: 1 Alarm Level: 1 Alarm Audio ⑦ Alarm Record Motion ⑦ Open Alarm Alarm ID: 000000000002A2BFD 1038000003 Alarm Name: 移动侦测 Alarm Video: 1 Alarm Level: 1 Ø Alarm Audio ⑦ Alarm Record	Alarm Device List	Alarm Input 1 Open Alarm Alarm ID: 0000000000002A2BFD103B000001 Alarm Video: 1 Alarm Level: 1	Alarm Name: 报警输入1 I Alarm Audio I Alarm Record	
Motion ⑦ Open Alarm Alarm ID: 000000000002A2BFD 1038000003 Alarm Video: 1 ▲ Alarm Level: 1 ⑦ Alarm Audio ⑦ Alarm Record 智能振響 ※ 后用振磬 振響D: 0000000000002A2BFD 1038000004 振磬名称: 智能振響 关联画面: 1 ① 供助声音 ○ 联动声像		Alarm Input 2	Alarm Name: 报警输入2 I Alarm Audio I Alarm Record	
智能振警 ・ 「		Motion Image: Open Alarm Alarm ID: 0000000000002A2BFD 103B0000003 Alarm Video: 1 Image: Alarm Level: 1	Alarm Name: 移动侦测 ⑦ Alarm Audio ⑦ Alarm Record	
		智能报警 ▼ 启用报警 报警ID: 000000000002A28FD1038000004 关联画面: 1 ▼ 优先级: 1 ▼	报警名称: 智能报警 聚动声音 マ 联动录像	

5.5 User management

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

Tor ID	Liser Name	For		Tie		
dmin	user Name admin	Male		TIP		
	Commit	1 NAINE				
1-6-						
r 1000	User ID:	admin	Password:	Confirm		
	000 101			Commission		
	User Name:	admin				
	Sex:	Male 🔻				
	_					
	Tip:					
	Right:	Device Manag	System Config	Record Plan Cor	nfig	
		Device Config	E-map Config	🔽 Task Config		
		PTZ Direction	Alarm Config	V User Manage		
					Select All	

Appendix Acronyms

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