



iVMS_5200 Pro V3.2.200

Hardware Configuration

Recommended List

2015-06

1. Recommended Client Hardware Configuration List

Low-end

CPU: Intel(R) Core(TM)i3-1450 CPU @3.50GHz 3.50GHz
 Memory: 4G
 The Graphics Card & Memory: Intel® HD Graphics 4400 , 3.88G
 Operating System: Windows 8.1 Enterprise_64bit_EN
 Notes: Control Client is installed on the PC machine.

Decoding Performance	Live View	Environment:	a. 4CIF*2M*25pfs b. Control Client 16-Window Division for live view, the region over stream, one monitoring point of 16-Channel preview	Performance:	16-Channel preview, smoothly
	Playback	Environment:	a. 4CIF*2M*25pfs b. Control Client 16-Window Division for playback, the region over stream. One monitoring point configures SS record, 16-Channel playback.	Performance:	a. 16-Channel normal speed playback mainly smoothly. b. Single channel playback mainly smoothly by 4X speed. Notes : Can only reach 6.8X actually when speed up to 8X

Middle-end

CPU: Intel(R) Core(TM)i5-4460 CPU @3.20GHz 3.20GHz
 Memory: 8G
 The Graphics Card & Memory: NVIDIA GeForce GT 730 , 8G
 Operating System: Windows 8.1 Enterprise_64bit_EN
 Notes: Control Client is installed on the PC machine.

Decoding Performance	Live View	Environment:	a. 4CIF*2M*25pfs b. Control Client 32-Window Division for live view, the region over stream, one monitoring	Performance:	32-Channel preview, smoothly Notes : Decoding process CPU> 80%
----------------------	-----------	--------------	--	--------------	---

			point of 32-Channel preview		
	Playback	Environment:	a. 4CIF*2M*25pfs b. Control Client 32-Window Division for playback, the region over stream. One monitoring point configures SS record, 16-Channel playback & 16-Channel Instant Playback.	Performance:	a. 32-Channel normal speed playback , blocked obviously b. 2-Channel playback mainly smoothly by 4X speed Notes : Can only reach 5.49X actually when 2-Channel playback speed up to 8X

High-end

CPU: Intel(R) Core(TM)i7-4790 CPU @3.60GHz 3.60GHz

Memory: 8G

The Graphics Card & Memory: AMD Radeon R9 200 Series , 7.87G

Operating System: Windows 8.1 Enterprise_64bit_EN

Notes: Control Client is installed on the PC machine.

	Live View	Environment:	a. 4CIF*2M*25pfs b. Control Client 64-Window Division for live view, the region over stream, one monitoring point of 64-Channel preview	Performance:	64-Channel preview, smoothly Notes : Decoding process CPU> 80%
Decoding Performance	Playback	Environment:	a. 4CIF*2M*25pfs b. Control Client 64-Window Division for playback, the region over stream. One monitoring point configures SS record, 16-Channel playback & 48-Channel Instant Playback.	Performance:	a. 32-Channel normal speed playback, blocked occasionally, Decoding process virtual memory>1.35G b. 4-Channel playback mainly smoothly by 4X speed Notes: Can only reach 4.17X actually when 4-Channel playback speed up to 8X, blocked occasionally

2. Recommended Server Hardware Configuration List

Low-end

CPU: Intel (R)Xeon(R) CPU E3-1230 V2 @ 3.30GHz 3.30GHz

Memory: 4G

The Graphics Card & Memory: Standard VGA Graphics Adapter

Operating System: Windows Server 2008 x64 R2 SP1 Standard EN

Notes :

a. when test Delay Performance, CMS, SMS, Control Client need to be installed on the same server ; device, servers connected to the same switch

b. When test other performance , the server and client installed in different PC;

Delay Performance	Live View	Environment:	DS-2CD4112F-IZ(1280*720P ,25fps ,2M) , preview single screen over stream media	Performance:	Delay within 1838ms
	PTZ	Environment:	DS-2DF1-714 (1280*720P , 25fps , 2M), preview single screen over stream media, test PTZ delay after 1 hour	Performance:	Delay within 982ms
	Alarm	Environment:	Start triggers motion detection of the Dome. The client software alarm center displays the alarm uploaded. The entire process using high frame rate video of Dome	Performance:	Delay within 504ms
Transcoding Performance	SMS Live View	Environment:	Using 3 mobile client login the platform simultaneously , and each client 4-Screen preview , smooth mode	Performance:	12-Channel transcoding 4CIF to QCIF preview smooth, but will often take off to reconnect
Storage Server Performance	Record Storage	Environment:	Configure 16-Channel*4CIF*2M*25fps ,SS Storage Recording Schedule, SS as local HDD, stop the record after a while, 16-Channel playback over stream media by multiple PCs	Performance:	4CIF*16-Channel storage, OK

	Record Playback	Environment:	Configure 16-Channel*4CIF*2M*25fps , SS Storage Recording Schedule over stream media, SS as local HDD, stop the record after a while, 16-Channel playback over stream media by multiple PCs	Performance:	4CIF*16-Channel VOD, OK
	Picture Storage	Environment:	Using SS pictures testing tool to uploaded 4 pictures per second continuously	Performance:	Upload 4 pictures per second continuously, OK
	Capture Picture	Environment:	CS client gets 4 4CIF pictures	Performance:	Get 4 4CIF pictures, OK
Stream Media Performance	SMS	Environment:	Configure 16-Channel*4CIF*2M*25fps , SS Storage Recording Schedule over stream media. Check the SMS Connected and SMS Stream Getting is 64-Channel or not in Web Manager->Resource Management	Performance:	64-Channel in, 64-Channel out, smoothly

Mid-end

CPU: Intel (R)Xeon(R) CPU E5-2609 V2 @ 2.5GHz 2.5GHz

Memory: 16G

The Graphics Card & Memory: ASPEED Graphics Family

Operating System: Windows Server 2008 x64 R2 SP1 Standard EN

Notes :

a. when test Delay Performance, CMS, SMS, Control Client need to be installed on the same server ; device, servers connected to the same switch

b. When test other performance , the server and client installed in different PC;

	Live View	Environment:	DS-2CD4112F-IZ(1280*720P ,25fps ,2M) , preview single screen over stream media	Performance:	Delay within 1950ms
Delay Performance	PTZ	Environment:	DS-2DF1-714 (1280*720P , 25fps , 2M), preview single screen over stream media, test PTZ delay after 1 hour	Performance:	Delay within 2125ms
	Alarm	Environment:	Start triggers motion detection of the Dome. The client software alarm center displays the alarm	Performance:	Delay within 666ms

			uploaded. The entire process using high frame rate video of Dome		
Transcoding Performance	SMS Live View	Environment:	Using 3 mobile client login the platform simultaneously , and each client 4-Screen preview , smooth mode	Performance:	12-Channel transcoding 720P to CIF preview smooth, but will often take off to reconnect
Storage Server Performance	Record Storage	Environment:	Configure 32-Channel*4CIF*2M*25fps , SS Storage Recording Schedule, SS as local HDD	Performance:	4CIF*32-Channel storage, OK
	Record Playback	Environment:	Configure 32-Channel*4CIF*2M*25fps , SS Storage Recording Schedule, SS as local HDD, stop the record after a while, 32-Channel playback over stream media by multiple PCs	Performance:	4CIF*32-Channel VOD, OK
	Picture Storage	Environment:	Using SS pictures testing tool to uploaded 8 pictures per second continuously	Performance:	Upload 8 pictures per second continuously, OK
	Capture Picture	Environment:	CS client gets 8 4CIF pictures	Performance:	Get 8 4CIF pictures, OK
Stream Media Performance	SMS	Environment:	Configure 16-Channel*4CIF*2M*25fps , SS Storage Recording Schedule over stream media. Check the SMS Connected and SMS Stream Getting is 64-Channel or not in Web Manager->Resource Management	Performance:	64-Channel in, 64-Channel out, smoothly

High-end

CPU: Intel (R)Xeon(R) CPU E5-2650 V2 @ 2.60GHz 2.60GHz

Memory: 32G

The Graphics Card & Memory: Basic Display Adapter

Operating System: Windows Server 2008 x64 R2 SP1 Standard EN

Notes :

- a. when test Delay Performance, CMS, SMS, Control Client need to be installed on the same server ; device, servers connected to the same switch
- b. When test other performance , the server and client installed in different PC;

Delay Performance	Live View	Environment:	DS-2CD4112F-IZ(1280*720P ,25fps ,2M) , preview single screen over stream media	Performance:	Delay within 1670ms
	PTZ	Environment:	DS-2DF1-714 (1280*720P , 25fps , 2M), preview single screen over stream media, test PTZ delay after 1 hour	Performance:	Delay within 1269ms
	Alarm	Environment:	Start triggers motion detection of the Dome. The client software alarm center displays the alarm uploaded. The entire process using high frame rate video of Dome	Performance:	Delay within 630ms
Transcoding Performance	SMS Live View	Environment:	Using 3 mobile client login the platform simultaneously , and each client 4-Screen preview , smooth mode	Performance:	12-Channel transcoding 1080P to 4CIF preview smooth, but will often take off to reconnect
Storage Server Performance	Record Storage	Environment:	Configure 64-Channel*4CIF*2M*25fps ,SS Storage Recording Schedule, SS as local HDD	Performance:	4CIF*64-Channel storage, OK
	Record Playback	Environment:	Configure 64-Channel*4CIF*2M*25fps ,SS Storage Recording Schedule, SS as local HDD, stop the record after a while, 64-Channel playback over stream media by multiple PCs	Performance:	4CIF*64-Channel VOD, OK
	Picture Storage	Environment:	Using SS pictures testing tool to uploaded 12 pictures per second continuously	Performance:	Upload 12 pictures per second continuously, OK
	Capture Picture	Environment:	CS client gets 12 4CIF pictures	Performance:	Get 12 4CIF pictures, OK
Stream Media Performance	SMS	Environment:	Configure 64-Channel*4CIF*2M*25fps ,SS Storage Recording Schedule over stream media. Check the SMS Connected and SMS Stream Getting is 64-Channel or not in Web Manager->Resource Management	Performance:	64-Channel in, 64-Channel out, smoothly