

## iVMS-4200 VS Client Software

iVMS-4200 VS Client Software is versatile video management client for the DVRs, NVRs, IP cameras, encoders, etc. It provides multiple functionalities, including real-time live view, video recording, video footage search and playback, event and alarm receiving, etc., for the connected devices to meet the needs of small and medium-sized projects.

With the flexible distributed structure and easy-to-use operations, iVMS-4200 VS Client can be applied to a wide range of surveillance projects in finance, public security, telecommunications, traffic, electricity, education, water conservancy industries, etc.

### Key Feature

#### Live View

- Supports up to 64-window division for standard screen, and 48-window division for wide screen
- Supports customizing window division
- Supports viewing the stream information during live view, including bitrate, frame rate and resolution (except for devices added by Cloud P2P)
- Supports live view in fisheye mode for one or more fisheye cameras, and supports Panorama, PTZ, Half Sphere, AR Half Sphere, and Cylinder modes
- Supports smart linkage
- Supports resuming the latest live view status after the client restarts
- Supports displaying or hiding waste gas information during live view

#### Recording

- Supports recording both main stream and sub-stream for playback (if device supports)
- Supports manual recording
- Supports recording schedule for continuous recording, event recording and command recording
- Providing SAN and Hybrid Storage Area Network configuration for Hybrid SAN devices
- Supports overwriting video file and deleting expired video file
- Supports storing pictures on Storage Server

#### Event Management

- Supports camera linkage and multiple linkage actions
- Supports configuring up to 4 cameras as the linkage of one event, and supports playing back the videos or captured pictures of the cameras simultaneously when searching historical events or viewing real-time events
- Supports sending email with captured picture as the attachment when the event is triggered
- Supports customizing alarm sound
- Supports subscribing event that the client can display in real time in event center when it is triggered
- Supports audible warning, pop-up live view and captured picture when alarm is triggered
- Supports receiving real-time events, e.g. events of face arming
- Supports searching the historical events by event type or event details as the key words



- Supports exporting historical events in EXCEL/CSV format
- Supports searching and downloading event triggered captured picture and event triggered video
- Supports acknowledging the received event, viewing the event on E-map, etc.

### **Playback**

- Supports remote playback
- Support playback of video footage stored on storage server
- Supports up to 16-ch synchronous playback
- Supports viewing the stream information during live view, including bitrate, frame rate, resolution (except for devices added by Cloud P2P)
- Supports instant playback, normal playback, alarm input playback, event playback, ATM playback, VCA playback, fisheye playback and POS playback
- Supports locating the playback time accurately
- Supports skipping unconcerned video footage during VCA playback
- Supports filtering the video footage with human or vehicle detected
- Supports searching and exporting the captured pictures of event by date and event type
- Supports downloading video file of devices added by Cloud P2P
- Supports merging video files when downloading by date
- Provides player in the installation directory to view the downloaded video file
- Supports searching recorded video files triggered by event and playing the video files, and downloading the video files

### **Statistics**

- Supports data statistics of heat analysis, people counting, counting, road traffic, face retrieval, license plate retrieval, behavior analysis, face capture, queuing-up time analysis, queue status analysis and intersection analysis
- Supports people counting by facial features and displaying the duplicated persons
- Supports showing large picture of face retrieval, license plate retrieval, and behavior analysis and the pictures can be exported for local storage
- Supports data retrieval for faces, human bodies, vehicles, behavior analysis related pictures and videos, persons who do not wear hard hats, and facial recognition check-in
- Supports searching facial recognition check-in records
- Supports searching frequently appeared persons and rarely appeared persons
- Supports AI dashboard retrieval function to search result for imported picture analysis task

### **Network**

- Supports adding encoding devices, Cloud P2P devices and stream media servers
- Supports adding devices by IP address, domain name, HiDDNS, IP Segment and ISUP account, and supports importing devices in batch
- Supports enabling transmission encryption using TLS (Transport Layer Security) protocol when adding a device
- Supports searching the active online devices
- Supports NTP protocol for time synchronization from the client to the added devices
- Supports checking device's online users
- Supports two-way audio and broadcast function
- Supports applying the client in local area network and wide area network

### **PTZ Control**

- Supports remote PTZ control, preset, patrol, and pattern settings
- Supports 3D positioning, auxiliary focus, and wiper function
- Supports displaying analog speed dome's local menu via PTZ control panel
- Supports PTZ control of one-touch patrol and one-touch park
- Supports lens de-icing heater and PT de-icing

- Supports arming and tracking target (human or vehicle)

### **Intelligence Application**

- Supports face application function to show face comparison alarm for the persons in the blacklist, VIP and regular customer
- Supports multi-target-type detection function to recognize and capture multiple types of detection targets
- Supports displaying results of Hikvision AI open platform
- Supports viewing two different channels (one fixed channel and one PTZ channel) of a device simultaneously
- Supports receiving enforcement alarms, traffic accident alarms, and road traffic alarms

### **Security Control**

- Supports adding zone as hot spot on E-map and viewing the video of the linked camera
- Supports adding AX-series security control device
- Supports radar configuration, including drawing zones, drawing trigger line, setting master-slave tracking, setting parking points for linked camera, setting map calibration
- Supports drawing false track area
- Support enabling terrain learning when setting smart linkage

### **General**

- Supports transmission encryption when logging in the SDK over TLS mode
- Supports upgrading client and device firmware after detecting new versions
- Supports importing and exporting configuration file
- Supports auto backing database up according to the configured schedule
- Supports log search and backup
- Supports adding facial recognition devices such as DeepinView and DeepinMind
- Supports remote configuration for added devices
- Supports adding online devices registered to Cloud P2P after logging into Cloud P2P
- Supports creating a password to activate device. For device which supports Cloud P2P, supports enabling Cloud P2P service when activating it
- Supports resetting device password
- Supports setting email when activating devices, and resetting the password of devices by the email
- Supports hardware decoding for live view and playback
- Supports downloading video files to PC in MP4 and AVI format
- Supports user permission management
- Supports E-map functions, including adding, deleting, editing and viewing e-map, zooming in/out and moving the e-map
- Provides topology management module to monitor network health status of connected device

## Specification

Model		iVMS-4200 VS	
Database		SQLite (encrypted)	
Client	General	User	50 users and one super user
		Encoding Device	256
		Group	256 groups 256 channels for each group
		Channel	256 channels for all groups
		Stream Media Server	16
		Items in Topology	256
		DeepinMind Server	1
		Behavior Analysis Task	64 tasks
		Behavior Analysis Task in One Group	64 tasks
		Smart Managed Switch	16
	Video	Live View	64-ch live view at a time on one screen
		Playback	16-ch playback at a time
		Synchronous Playback	16-ch synchronous playback
		Downloading	16-ch downloading tasks at a time
	Security Control	Security Control Panel	16
Security Radar		8	
Stream Media Server	Incoming/Outgoing Stream	64-ch incoming video stream 200-ch outgoing video stream	
Supported Language		Arabic, Bulgarian, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Lithuanian, Norwegian, Polish, Portuguese, Portuguese (Brazil), Romanian, Russian, Serbian, Simplified Chinese, Slovak, Slovenian, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Ukrainian, Vietnamese	

## System Requirement

\* For high stability and good performance, the following system requirements must be met.

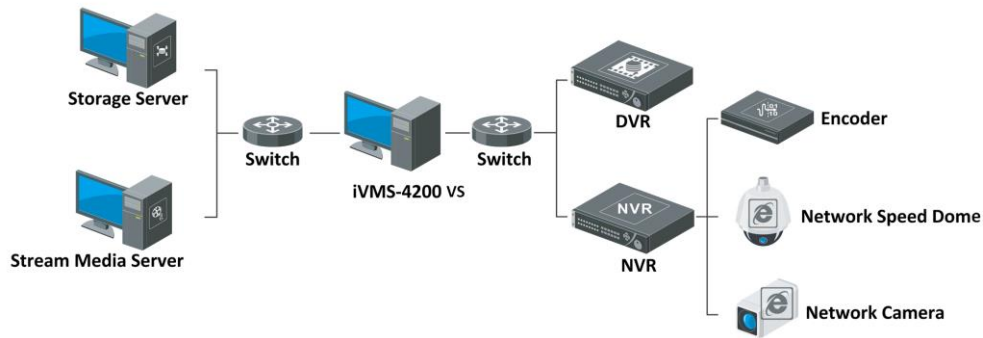
Feature	Requirements
Operating System	Microsoft® Windows 7 SP1 and above (32-bit or 64-bit) Microsoft® Windows 8.1 (32-bit or 64-bit) Microsoft® Windows 10 (32-bit or 64-bit) Microsoft® Windows Server 2008 R2 and above (32-bit or 64-bit) Microsoft® Windows Server 2012 R2 and above (32-bit or 64-bit)
CPU	Intel® Core™ i3 Processor and above
Memory	2 GB and above
Resolution	1280×768 and above

## Live View Performance

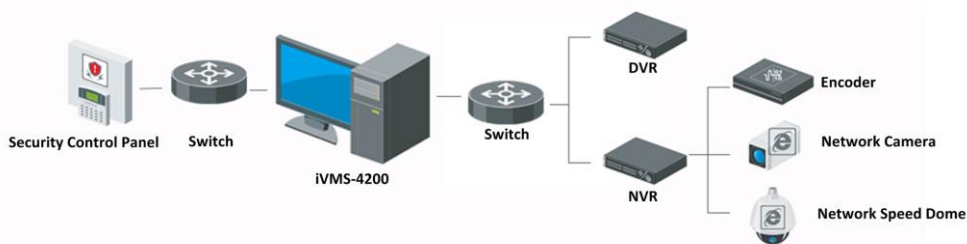
H.264 (Software Decoding)											
Resolution	Bit Rate (Mbps)	Frame Rate (fps)	CPU: i3-8100@3.60GHz Graphics Card: GT1030 Windows 10 64-bit			CPU: i5-9400F@2.9GHz Graphics Card: GTX1050Ti Windows 10 64-bit			CPU: i7-8700k@3.7GHz Graphics Card: GTX2080x2 Windows 10 64-bit		
			Channels	CPU(%)	Memory(MB)	Channels	CPU(%)	Memory(MB)	Channels	CPU(%)	Memory(MB)
1080P	6	30	11	79-88	150.9	18	86-88	156.4	27	86-89	173.4
8MP	12	30	4	73-80	169.4	5	76-87	95.6	7	72-82	194.3
H.264 (Hardware Decoding)											
Resolution	Bit Rate (Mbps)	Frame Rate (fps)	CPU: i3-8100@3.60GHz Graphics Card: GT1030 Windows 10 64-bit			CPU: i5-9400F@2.9GHz Graphics Card: GTX1050Ti Windows 10 64-bit			CPU: i7-8700k@3.7GHz Graphics Card: GTX2080x2 Windows 10 64-bit		
			Channels	GPU(%)	Memory(MB)	Channels	GPU(%)	Memory(MB)	Channels	GPU(%)	Memory(MB)
1080P	6	30	7	50-52	181.9	30	14-16	99.3	29	11-15	133.9
8MP	12	30	3	19-21	188.3	6	4-6	176.6	7	5-6	169.8
H.264+											
Resolution	Bit Rate (Mbps)	Frame Rate (fps)	CPU: i3-8100 Graphics Card: GT1030 D5 Windows 7 64-bit			CPU: i5-4590@3.3GHz Graphics Card: GTX970 Windows 7 64-bit			CPU: i7-6700k@4GHz Graphics Card: GTX1070 Windows 7 64-bit		
			Channels	CPU(%)	Memory(MB)	Channels	CPU(%)	Memory(MB)	Channels	CPU(%)	Memory(MB)
720P	3	30	24	62-84	1,208	27	63-90	1,382	48	53-80	1,125
1080P	6	30	11	60-89	1,024	12	61-90	1,536	21	80-90	1,161
8MP	12	30	-	-	-	3	70-91	686	6	64-92	1,249
H.265											
Resolution	Bit Rate (Mbps)	Frame Rate (fps)	CPU: i3-8100 Graphics Card: GT1030 D5 Windows 7 64-bit			CPU: i5-4590@3.3GHz Graphics Card: GTX970 Windows 7 64-bit			CPU: i7-6700k@4GHz Graphics Card: GTX1070 Windows 7 64-bit		
			Channels	CPU(%)	Memory(MB)	Channels	CPU(%)	Memory(MB)	Channels	CPU(%)	Memory(MB)
720P	3	30	14	69-91	1,054	15	70-90	850	26	71-89	1,251
1080P	6	30	8	64-81	1,105	8	60-85	1,239	15	70-88	1,284
8MP	12	30	-	-	-	2	77-92	666	3	51-64	1,075

## Typical Application

### Application for Video Surveillance



### Application for Security Control Panel



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