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

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

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

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

System Requirement

For high stability and good performance, the following system requirements must be met.
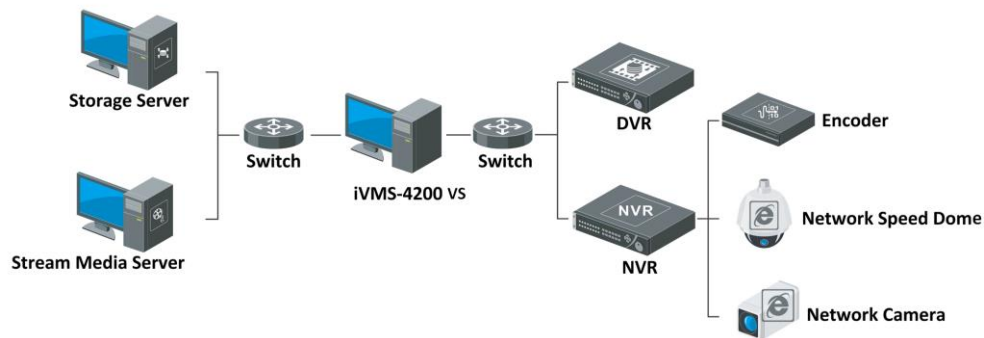
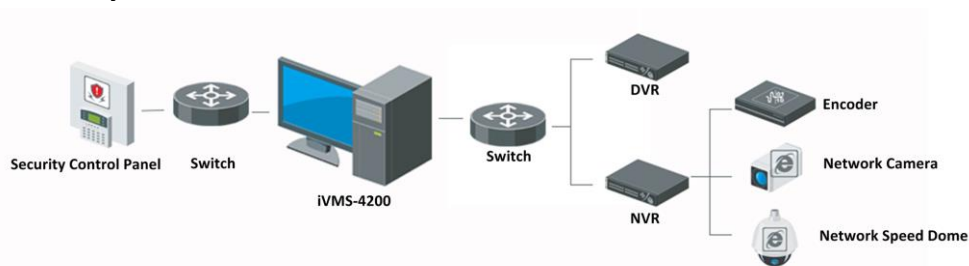| Feature	Requirements
Operating System	Microsoft® Windows 7 SP1 and above (32-bit or 64-bit)
	Microsoft® Windows 8.1 (32-bit or 64-bit)
	Microsoft® Windows 10 (32-bit or 64-bit)
	Microsoft® Windows Server 2008 R2 and above (32-bit or 64-bit)
	Microsoft® Windows Server 2012 R2 and above (32-bit or 64-bit)
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: GTX2080×2 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: GTX2080×2 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