

iVMS-4200 Client Software

iVMS-4200 Client Software is designed to configure and manage Hikvision devices in a unified and intuitive manner, including the DVRs, NVRs, IP cameras, encoders, access control devices, security control panels, video intercom devices, VCA devices, etc. It provides multiple functionalities, including real-time live view, video recording, video footage search and playback, event and alarm receiving, 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

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.
- Supports device arming and partition and zone settings
- Supports event configuration for video event, access control event, and security control event
- Supports sending alarms when the gray scale is abnormal or object thrown from building is detected
- Supports searching for the persons' temperature information and whether they are wearing masks when exporting the capture events of face temperature screening
- Supports checking the event types of door contact open/close and door contact open by force of video intercom devices

Playback

- Supports remote playback
- 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 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

Person Management

- Supports managing persons in different organizations
- Supports getting person information from added devices
- Supports importing and exporting person and face information
- Provides multiple types of credentials, including card number, face, and fingerprint, for composite authentications
- Supports collecting face pictures by third-party camera (USB camera or the build-in camera of computer)
- Supports viewing resource statistics (including persons, face pictures, cards, and fingerprints) on client and on device
- Supports extending person's validity period for access permission
- Supports reading card No. by swiping card
- Supports using USB to collect card number, fingerprint, face, and person ID from the Enrollment Station

Access Control and Video Intercom

- Supports setting holiday schedule and access schedule template
- Supports setting a schedule for door's remaining open/closed status
- Supports setting access groups to relate persons, templates, and access points, which defines the access permissions of different persons
- Supports multiple modes for both card reader authentication and person authentication
- Supports advanced functions such as multi-factor authentication, custom Wiegand, first person in, anti-passback, and multi-door interlocking
- Supports controlling the door status (lock, unlocked, remain locked, remain unlocked, remain all locked and remain all

unlocked) by the client remotely

Elevator Control

- Supports setting parameters for elevator control devices
- Supports setting the relay types of the elevator control devices and setting the relation between relays and floors
- Supports controlling elevator status via the client, including **Opening Door, Controlled, Free** and **Disabled**

Time and Attendance

- Supports setting general rules for time and attendance
- Supports setting different rules for various attendance scenarios, such as one-shift and man-hour shift
- Supports customizing overtime levels and setting corresponding work hour rate
- Supports flexible and quick settings of timetables, shifts, and shift schedule
- Supports setting multiple timetables in one shift
- Supports getting detailed attendance data from the managed device, including check-in and check-out, break-in and break-out, overtime-in and overtime-out, etc.
- Supports customizing contents displayed in reports and sending reports to specified email address according to schedule
- Supports multiple types of reports according to different needs
- Supports sending the original attendance data to a third-party database (Microsoft® SQL Server® 2008 and above, MySQL V5.0.45 and above) and customizing the data type, and thus the client can access third-party T&A and payment system
- Supports calculating the break time as attendance
- Supports flexible shift schedule on weekend
- Supports editing flexible timetable and counting the day with insufficient attendance time under the set flexible timetable as absence

Security Control

- Accessing AX-series security control device
- Supports adding zone as hot spot on E-map and viewing the video of the linked camera
- 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

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
- Supports hard hat retrieval by wearing an hard hat or not and face recognition status, and supports displaying ID type and ID No. in search results
- Supports searching for the historical temperature statistics of specific devices and displaying the information on a

temperature map

Network

- Supports adding encoding devices and Cloud P2P devices
- 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 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)

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 devices
- Provides configuration wizards for access control and time and attendance, which helps users to quick start
- Supports importing the events of the access control devices to the client in CSV format (encrypted)
- Supports configuring display formats of date and time of the client
- Supports 1V1 face comparison
- Supports searching analysis result for video and captured picture task
- Supports face picture retrieval, human body retrieval and vehicle retrieval, and exporting the related video files
- Supports saving pictures in structure data format to meet GDPR standards in the EU

- Supports selecting the retention period of events (the default retention period is 3 years)

Specification

Model		iVMS-4200		
Database	Client Database	SQLite (encrypted)		
	Third-Party Database	Microsoft® SQL Server® 2008 and above, MySQL V5.0.45 and above		
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		
Client	General	User	50 users and one super user	
		E-map	256	
		Encoding Device	256	
		Group	256 groups 256 channels for each group	
		Channel	256 channels for all groups	
		DeepinMind Server	1	
		Behavior Analysis Task	64 tasks	
		Behavior Analysis Task in One Group	64 tasks	
	Video	Live View	64-ch live view at a time on one screen	
		Auxiliary Screen Preview	One main screen and 3 auxiliary screens for live view	
		Playback	16-ch playback at a time	
		Synchronous Playback	16-ch synchronous playback	
		Downloading	16-ch downloading tasks at a time	
	Access Control	Organization	10 levels	
		Person	2,000	
		Card	5,000	
		Finger	5,000	
		Face Picture	2,000	
		Elevator Controller	2	
		Access Group	50	
		Door	50	
		Template	16	
		Video Intercom Devices (Door Station, Indoor Station, Master Station)	256	
		Shift	32	
		Time and Attendance Data	The retention period of attendance results and retention period of original records depend on the HDD capacity and amount of the data generated during usage.	
	Security Control	Security Control Panel	16	
Security Radar		8		

System Requirement

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

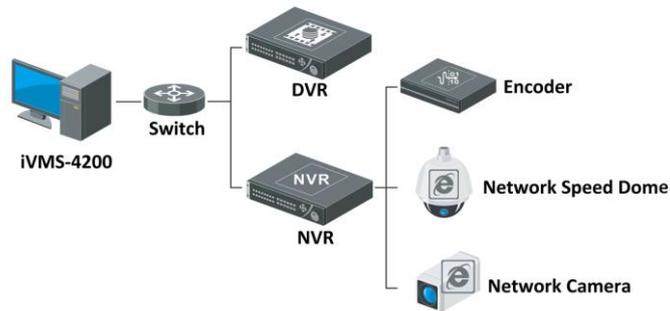
Features	Requirements
Operating System	Microsoft® Windows 7 SP1 and above (32-bit or 64-bit) Microsoft® Windows 8.1 (32-bit or 64-bit) Microsoft® Windows 10 (32-bit or 64-bit)
CPU	Intel® Core™ i3 Processor and above
Memory	2 GB and above
Resolution	1280×768 and above

Live View Performance

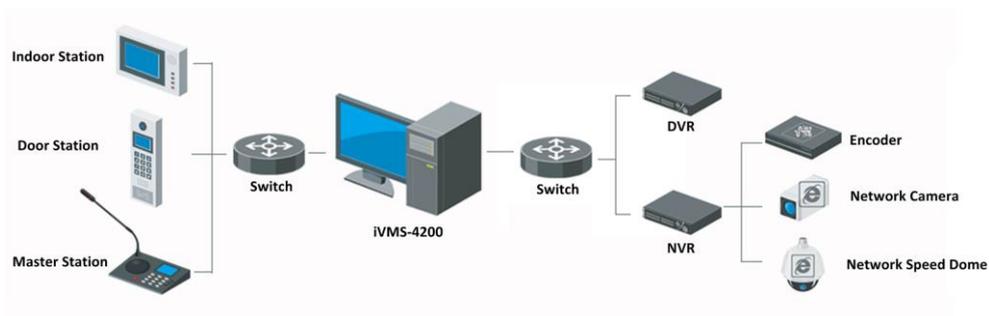
H.264 (Software Decoding)											
Resolution	Bit Rate (Mbps)	Frame Rate (fps)	CPU: i3-8100@3.60GHz Graphics Card: GT1030 Windows 10 64-bit			CPU: i5-9400F@2.9GHz Graphics Card: GTX1050Ti Windows 10 64-bit			CPU: i7-8700k@3.7GHz Graphics Card: GTX2080x2 Windows 10 64-bit		
			Channels	CPU(%)	Memory(MB)	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

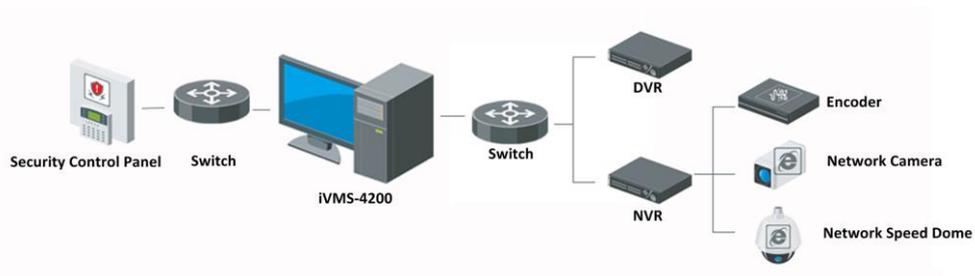
Application for Video Security



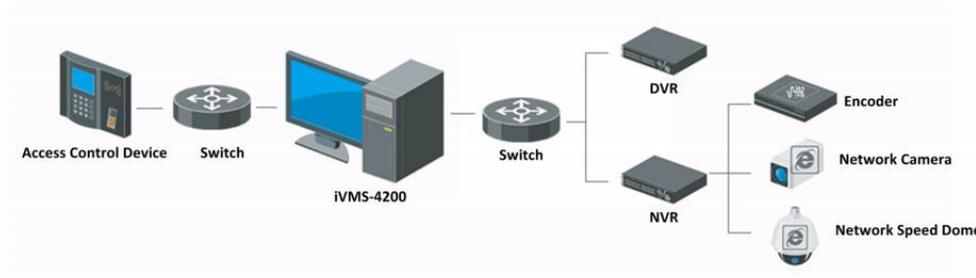
Application for Video Intercom



Application for Security Control Panel



Application for Access Control



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