iVMS-4200 Client Software

iVMS-4200 is versatile video management software for 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, remote search and playback, file backup, 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 client software is widely applied to the surveillance project of financial, public security, military, telecommunications, transport, electricity, education, water conservancy industries, etc.

Key Feature

Live View

- View settings and instant playback
- Live view on main/auxiliary screen
- Up to 64-window division for standard screen, and 48-window division for the wide screen
- Custom window division configurable
- Live view in fisheye mode for one or more fisheye cameras and supports Panorama, PTZ, Half Sphere, AR Half Sphere, and Cylinder modes
- Master-slave tracking
- Resuming the latest live view status after client restart

Recording

- Recording both main stream and sub-stream for playback (if device supports)
- Remote manual recording
- Recording schedule for continuous recording, event recording and command recording
- Storing alarm pictures on Storage Server
- Providing SAN and Hybrid Storage Area Network configuration for Hybrid SAN device
- Video file overwritten and expired video file deleting

Event Management

- Camera linkage and multiple linkage actions
- Device arming and partition and zone settings
- Event configuration for video event, access control event, and security control event
- Searching and exporting the linked pictures of events
- Audible warning and pop-up image when event triggered
- Receiving events in real-time, and retrieve the historical events
- Custom event sound as desired
- Displaying the alarm source location on the map

Playback

- Local and remote playback
- Instant playback, normal playback, alarm input playback, event playback, ATM playback, VCA playback, and fisheye playback
- Up to 16-ch synchronous playback
- Locating the playback time accurately
- Skipping unconcerned video during VCA playback
- Searching video files which contain POS information
- Providing player in the installation directory to view the downloaded video file
- Merging video files when downloading by date

Person Management

- Managing persons in different organizations
- Getting person information from added device
- Importing and exporting person and face information
- Provides multiple types of credentials, including card number, face, and fingerprint, for composite authentications

Access Control and Video Intercom

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

Elevator Control

- Setting parameters for elevator control devices
- Setting the relay types of the elevator control devices and setting the relationship between relays and floors
- Controlling elevator status via the client, including opening door, controlled, free, and disabled

Time and Attendance

- Setting general rules for time and attendance
- 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
- Getting details attendance data from the managed device, including check-in and check-out, break-in and break-out, overtime-in and overtime-out, etc.
- Supports multiple types of reports according to different needs
- Customizing contents displayed in reports and sending report to specified emails according to schedule
- Setting different rules for various attendance scenarios, such as one-shift and man-hour shift
- 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, thus the client can access third-party T&A and payment system

Security Control

- Real-time alarm management for added security control panels

- Subscribing alarm that the client can display in real-time alarm management when it is triggered
- Acknowledging the received alarm, viewing the alarm on E-map, etc.
- Alarm linkage with added cameras, including pop-up live view, captured picture
- Adding zone as hot spot on E-map and viewing the video of the linked camera
- Accessing AX-series security control device

Statistics

- 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
- Showing large picture of face retrieval, license plate retrieval, and behavior analysis and the pictures can be exported for local storage
- Data retrieval for faces, human bodies, vehicles, behavior analysis related pictures and videos, persons who does not wear hard hats, and facial recognition check-in
- Search frequently appeared persons and rarely appeared persons

Network

- Encoding devices, Cloud P2P, access control devices, security control panels, video intercom devices, storage servers, stream media servers connectable
- Checking device's online users
- NTP protocol for time synchronization
- Searching the active online devices
- Adding devices by Cloud P2P which have been added to the Cloud P2P account
- Adding devices by HiDDNS and IP Server; batch importing devices
- Two-way audio and broadcast function
- Enable transmission encryption using TLS (Transport Layer Security) protocol when adding a device

PTZ Control

- Remote PTZ control, preset, patrol, and pattern settings
- 3D positioning, auxiliary focus, and wiper function
- Displaying analog speed dome's local menu via PTZ control panel
- PTZ control of one-touch patrol and one-touch park

General

- Applied in local area network and wide area network
- Facial identification device such as DeepinView and DeepinMind
- Transmission encryption when logging with SDK over TLS mode
- E-map function. Adding, deleting, editing and view e-map, zooming in/out and moving the e-map
- Remote configuration for added devices
- User permission management
- Creating a password to activate devices. For device which supports Hik-Connect, enabling Hik-Connect service when activating it
- Resetting device password
- Hardware decoding for live view and playback
- Setting email when activating devices, and resetting the password of devices by the email
- Downloading video files to PC in MP4 and AVI format
- Log search and backup

- Importing and exporting configuration file
- Auto backing up database according to the configured schedule
- Add online devices registered to Hik-Connect after logging into Hik-Connect
- Upgrade client and device firmware after getting new versions

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
		Storage Server	16
		Stream Media Server	16
	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 hierarchies
		Person	3,200
		Card	16,000
		Access Group	128
		Access Point (Doors/Floors)	64
		Template	255
		Door Station	16
		Indoor Station	512
		Master Station	256
		Shift	64
		Time and Attendance Data	The data are stored in the database, which is saved in the software's installation path. 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	256
		Zone	2,048
Storage Server		Recording Performance	64-ch × 2 Mbps at a time
		VOD Performance	64-ch × 2 Mbps at a time
		User	32
		iVMS-4200 Client	128 clients connected to the Storage Server
Stream Media Server		Incoming/Outgoing Stream	64-ch incoming video stream 200-ch outgoing video stream

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) 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 Processors and above
Memory	2 GB or above
Resolution	1280×768 and above

Live View Performance

| 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	-	-	-	25	78-89	1,330	41	81-90	1,286
1080P	6	30	-	-	-	11	65-82	460	19	75-89	1,242
8MP	12	30	-	-	-	3	79-90	2,099	5	63-75	1,454
4CIF	1	30	57	58-78	1,577	-	-	-	-	-	-

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
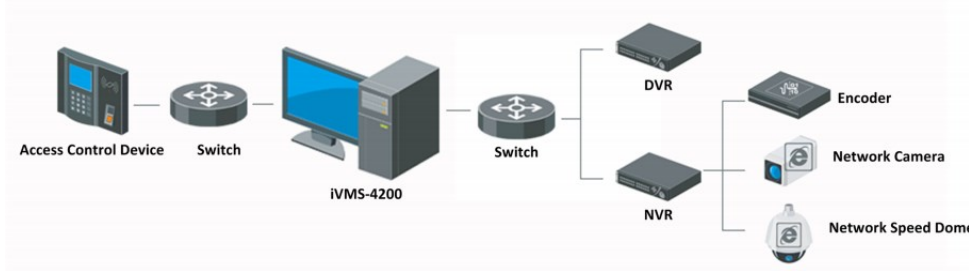
Application for Video Surveillance
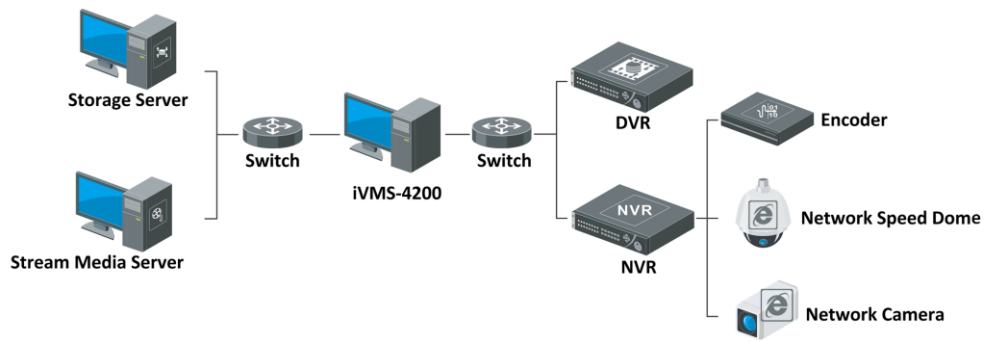
Application for Video Intercom
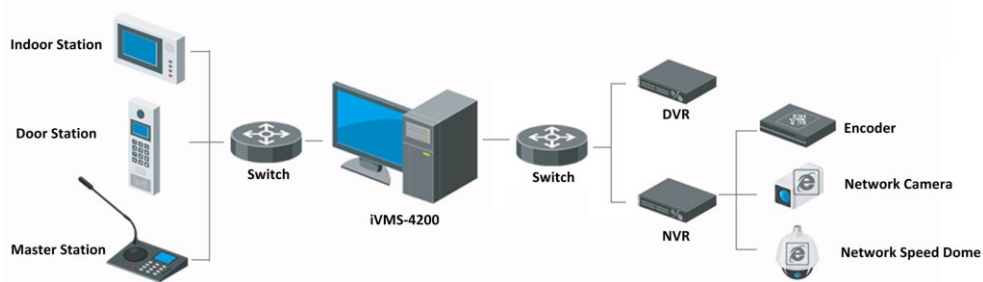
Application for Security Control Panel
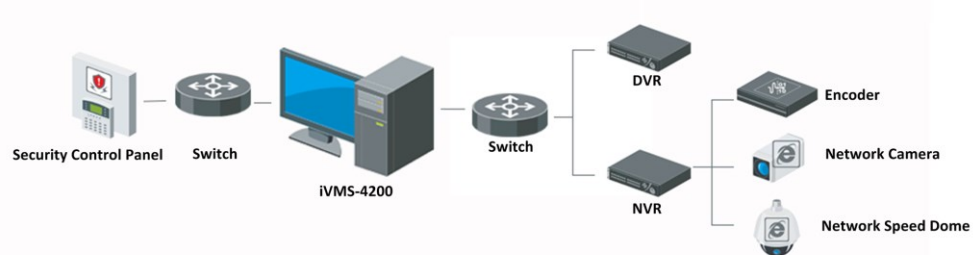
Application for Access Control

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