

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 Hik-Connect)
- 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 for the historical events by event type or event details as the key words
- Supports exporting historical events in CSV format
- Supports fire alarm and status alarm for the fire protection gateway and detector



- 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 the playback of video event
- Supports importing false alarm pictures and target frame information to self-learning library for line crossing detection and intrusion detection when viewing real-time events and searching for historical events

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 Hik-Connect)
- 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 Hik-Connect
- 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
- Event Playback supports downloading multiple video files to local PC

Person Management

- Supports managing persons in different organizations
- Supports getting person information in a batch or via employee ID from added devices
- Supports importing and exporting person and face information
- Provides multiple types of credentials, including card number, face, fingerprint, and iris, 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 importing and exporting person information including card type and card number
- Supports issuing cards in batch to the persons with no cards

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, cross-controller 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
- Supports video intercom and searching for real-time call logs
- Supports managing notices on the indoor station; supports applying application package to indoor station

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
- Supports displaying events triggered by iris authentication

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 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, drawing point cloud filter zones, and displaying environment learning information in blue points
- Supports drawing false track area
- Supports 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
- AI Dashboard supports searching for data stored in DeepinMind servers
- Supports searching for fire and smoke detections
- Supports display by grouping statistics for people counting by encoding device

Network

- Supports adding encoding devices and Hik-Connect devices
- Supports adding devices by IP address, domain name, 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 for 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 Hik-Connect after logging into Hik-Connect
- Supports creating a password to activate device. For device which supports Hik-Connect, supports enabling Hik-Connect 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)
- Live view and playback of devices added by cloud service account supports up to 5 minutes, and after that time the playback will end automatically.
- Supports longitude and latitude calibration for radars
- Supports customer traffic (face) in the intelligent application
- Supports accessing the fire protection gateway
- Supports the access to HCC on the interface
- Supports radar tracking manual compensation

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 *: This does not indicate supporting the live view of 256 (64 * 4) channels at the same time. For details, refer to system requirement and live view performance. |
| | | 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 | 4 |
| | | 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.

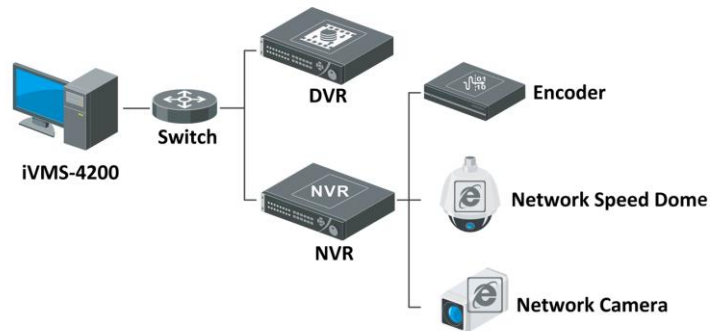
| Features | Requirements |
|------------------|--|
| Operating System | Microsoft® Windows 7 SP1 and above (32-bit or 64-bit) Microsoft® Windows 8.1 (32-bit or 64-bit) Microsoft® Windows 10 (32-bit or 64-bit) Microsoft® Windows 11 (32-bit or 64-bit) |
| CPU | Intel® Core™ i3 Processor and above |
| Memory | 4 GB and above |
| Resolution | 1280×768 and above |

Live View Performance

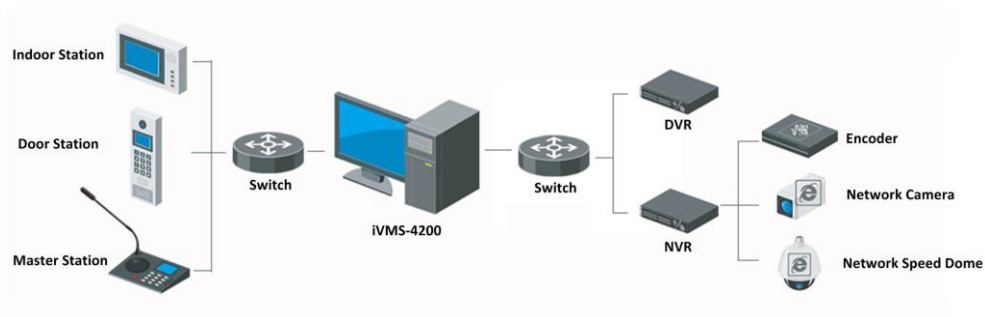
| H.264 (Software Decoding) | | | | | | | | | | | |
|---------------------------|-----------------|------------------|--|--------|------------|---|--------|------------|---|--------|------------|
| Resolution | Bit Rate (Mbps) | Frame Rate (fps) | CPU: i3-8100@3.60GHz Graphics Card: GT1030 Windows 10 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

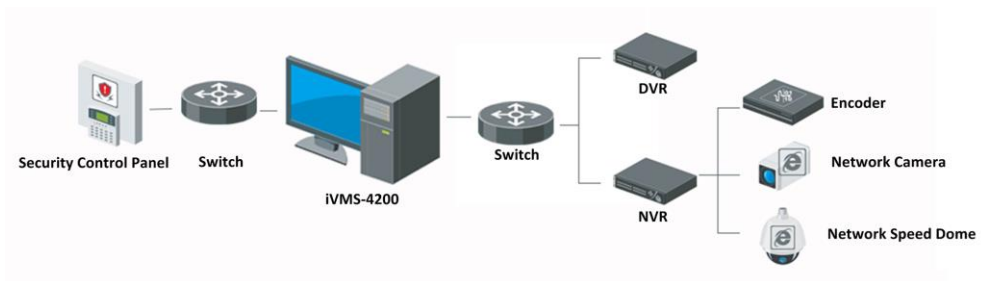
Application for Video Security



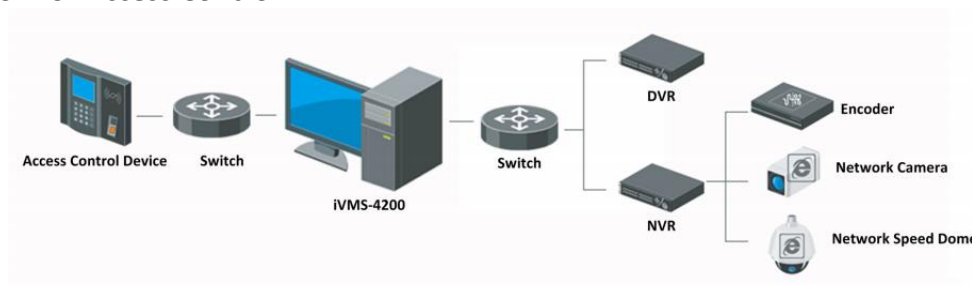
Application for Video Intercom



Application for Security Control Panel



Application for Access Control



Distributed by

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