

## 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 Features

#### 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
- Supports previewing audio input channels
- Supports configuring auto-switch schedule
- Supports displaying channel recording status and alarm status
- Supports enabling or disabling VCA rules for a single real live window

#### 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)
- Supports manually enabling the function of hazardous gas detection

#### 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

#### Playback

- Supports remote playback
- Supports up to 16-channel synchronous remote playback of video and audio files

- Supports viewing the stream information during live view (except for devices added by Hik-Connect), including bitrate, frame rate, resolution
- 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 downloading audio files from multiple audio input channels and video files from multiple cameras
- Supports downloading corresponding video and audio files when the remote playback ends
- 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

### **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 searching for the historical events by event type or event details as the key words
- Supports exporting historical events in CSV format
- Supports configuring AI open platform events
- 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

### **Statistics**

- Supports data statistics of heat analysis, people counting, counting, road traffic, face retrieval, license plate retrieval, face capture, queuing-up time analysis, queue status analysis and intersection analysis
- Supports people counting by facial features and device types and displaying the duplicated persons
- Supports showing large picture of face retrieval, license plate retrieval, and the pictures can be exported for local storage
- Supports data retrieval for faces, human bodies, vehicles, 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 searching for videos by time, event type, or tag

### **Person Management**

- Supports customizing organizations to managing persons
- Supports getting person information in a batch or via employee ID from added devices
- Supports importing and exporting person and face
- 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 (person ID, card number, face pictures, irises, and fingerprints)
- 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
- Supports customizing display columns of the person list

### **Access Control**

- 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 the access control management of person, card, face pictures, irises, and fingerprints
- Supports advanced functions such as multi-factor authentication, custom Wiegand, first person in, anti-passback, cross-controller anti-passback, and multi-door interlocking
- Supports setting authentication attempts for multiple time periods, and supports clearing the authentication attempts
- Supports filtering events by event type
- Supports customizing display columns of the event list

### **Video Intercom**

- 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
- Supports setting authentication attempts for multiple time periods, and supports clearing the authentication attempts
- Supports refreshing door's status

### **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

### **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

### **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

### **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

### **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 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
- Supports person passing records management, lamp effect management, channel control management, and person channel management
- Supports activate new devices users by changing the password
- Supports customizing homepage modules
- Supports adding switches and wireless bridges over the OTAP protocol
- Supports displaying the device HTTP port No. on the Online Device pane
- Supports automatically filling the device port No. on the adding online device pane

## Specification

|                     |   |  |
|---------------------|---|--|
| Model               |   | iVMS-4200  |
| Database            | Client Database   | SQLite (encrypted)   |
| General             | User  | 50 users and one super user  |
|                     | Group   | 256  |
|                     | E-Map   | 256  |
| Video               | Encoding Device   | 256  |
|                     | DeepinMind Server   | 1  |
|                     | Camera  | 256 for all groups   |
|                     | Live View   | 64-channel live view at a time on one screen<br>*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-channel playback at a time  |
| Access Control      | Access Controller   | 50   |
|                     | Video Intercom Devices (Door Station, Indoor Station, Main Station) | 256  |
|                     | Elevator Controller   | 4  |
|                     | Door  | 50   |
|                     | Person  | 2,000  |
|                     | Organization  | 10 levels  |
|                     | Card  | 5,000  |
|                     | Fingerprint   | 5,000  |
|                     | Face Picture  | 2,000  |
|                     | Iris  | 4,000  |
|                     | Access Group  | 50   |
|                     | Schedule Template   | 16   |
| Time and Attendance | Retention Period of Attendance Results                              | The retention period depends on the HDD capacity and the amount of the generated data.   |
|                     | Schedule  | 32   |
| Security Control    | Security Control Panel  | 16   |
|                     | Security Radar  | 8  |
| Network             | Switch  | 16   |
| Event and Alarm     | Events or Alarms Sent to Clients                                    | 10 events or alarms per second   |
| 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.

| Features         | Requirements   |
|------------------|--|
| Operating System | Microsoft® Windows 7 SP1 and above (32-bit or 64-bit)<br>Microsoft® Windows 8.1 (32-bit or 64-bit)<br>Microsoft® Windows 10 (32-bit or 64-bit)<br>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 (This table is for reference only. The parameters are subject to the actual performance.)

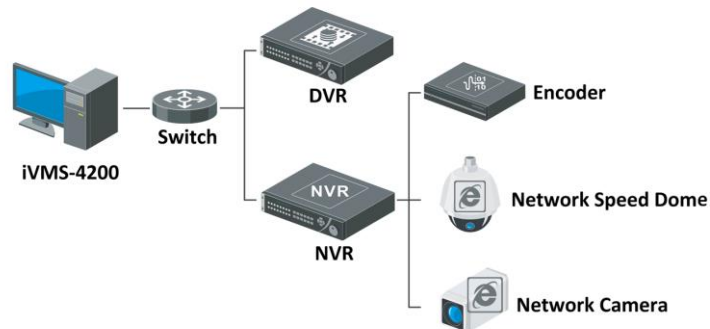
| H.264 (Software Decoding)   |          |              |        |            |                 |                  |
|---|----------|--------------|--------|------------|-----------------|------------------|
|   | Channels | Resolution   | CPU(%) | Memory(MB) | Bit Rate (Mbps) | Frame Rate (fps) |
| CPU: i3-8100@3.60GHz 4G<br>Graphics Card: GT1030<br>Windows 10 64-bit     | 9        | 1080P        | 79-88  | 150.9      | 6               | 30               |
|   | 2        | 8 MP         | 73-80  | 169.4      | 12              | 30               |
|   | 64       | cif          | 40-53  | 857.7      | 0.5             | 30               |
| CPU: i5-9400F@2.9GHz 8G<br>Graphics Card: GTX1050Ti<br>Windows 10 64-bit  | 18       | 1080P        | 86-88  | 156.4      | 6               | 30               |
|   | 4        | 8 MP         | 76-87  | 95.6       | 12              | 30               |
|   | 64       | 4cif         | 74-85  | 922.5      | 0.5             | 30               |
| CPU: i7-8700k@3.7GHz 16G<br>Graphics Card: GTX2080×2<br>Windows 10 64-bit | 27       | 1080P        | 86-89  | 173.4      | 6               | 30               |
|   | 8        | 8 MP         | 72-82  | 194.3      | 12              | 30               |
|   | 64       | 4cif         | 38-45  | 747.4      | 1               | 30               |
| Smart H.264 (Hardware Decoding)   |          |              |        |            |                 |                  |
| CPU: i3-8100@3.60GHz 4G<br>Graphics Card: GT1030<br>Windows 10 64-bit     | 10       | 1080P        | 59-72  | 509.8      | 6               | 30               |
|   | 5        | 8MP          | 65-86  | 796.6      | 12              | 30               |
|   | 64       | cif (D3D11)  | 42-51  | 1003.9     | 0.5             | 30               |
| CPU: i5-9400F@2.9GHz 8G<br>Graphics Card: GTX1050Ti<br>Windows 10 64-bit  | 20       | 1080P        | 74-78  | 518.1      | 6               | 30               |
|   | 6        | 8MP          | 92-99  | 420.9      | 12              | 30               |
|   | 64       | 4cif (D3D11) | 53-60  | 996.2      | 1               | 30               |
| CPU: i7-8700k@3.7GHz 16G<br>Graphics Card: GTX2080×2<br>Windows 10 64-bit | 24       | 1080P        | 75-77  | 714.5      | 6               | 30               |
|   | 6        | 8MP          | 65-72  | 413.7      | 12              | 30               |
|   | 64       | 4cif (D3D11) | 67-75  | 1173.8     | 1               | 30               |
| H.264+  |          |              |        |            |                 |                  |
| CPU: i3-8100 4G<br>Graphics Card: GT1030 D5<br>Windows 7 64-bit           | 18       | 720P         | 55-68  | 1,208      | 3               | 30               |
|   | 10       | 1080P        | 54-78  | 1,024      | 6               | 30               |
|   | -        | 8MP          | -      | -          | 12              | 30               |
| CPU: i5-4590@3.3GHz 8G<br>Graphics Card: GTX970<br>Windows 7 64-bit       | 44       | 720P         | 84-92  | 1,382      | 3               | 30               |
|   | 16       | 1080P        | 79-89  | 1,536      | 6               | 30               |
|   | 5        | 8MP          | 85-90  | 686        | 12              | 30               |

|  |    |       |       |        |    |    |
|--|----|-------|-------|--------|----|----|
| CPU: i7-6700k@4GHz 16G<br>Graphics Card: GTX1070<br>Windows 7 64-bit | 64 | 720P  | 79-94 | 1,125  | 3  | 30 |
|  | 27 | 1080P | 87-93 | 1,161  | 6  | 30 |
|  | 10 | 8MP   | 92-96 | 1,249  | 12 | 30 |
| <b>H.265</b>   |    |       |       |        |    |    |
| CPU: i3-8100 4G<br>Graphics Card: GT1030 D5<br>Windows 7 64-bit      | 12 | 720P  | 70-77 | 349.1  | 3  | 30 |
|  | 7  | 1080P | 79-87 | 428.1  | 6  | 30 |
|  | -  | 8MP   | -     | -      | 12 | 30 |
| CPU: i5-4590@3.3GHz 8G<br>Graphics Card: GTX970<br>Windows 7 64-bit  | 25 | 720P  | 83-91 | 628.3  | 3  | 30 |
|  | 12 | 1080P | 88-94 | 983.2  | 6  | 30 |
|  | 2  | 8MP   | 59-70 | 604    | 12 | 30 |
|  | 64 | 4cif  | 81-90 | 1057.6 | 1  | 30 |
| CPU: i7-6700k@4GHz 16G<br>Graphics Card: GTX1070<br>Windows 7 64-bit | 42 | 720P  | 90-97 | 937.6  | 3  | 30 |
|  | 18 | 1080P | 90-96 | 1207.9 | 6  | 30 |
|  | 5  | 8MP   | 86-95 | 1097.7 | 12 | 30 |
|  | 64 | 4cif  | 57-63 | 1150.5 | 1  | 30 |

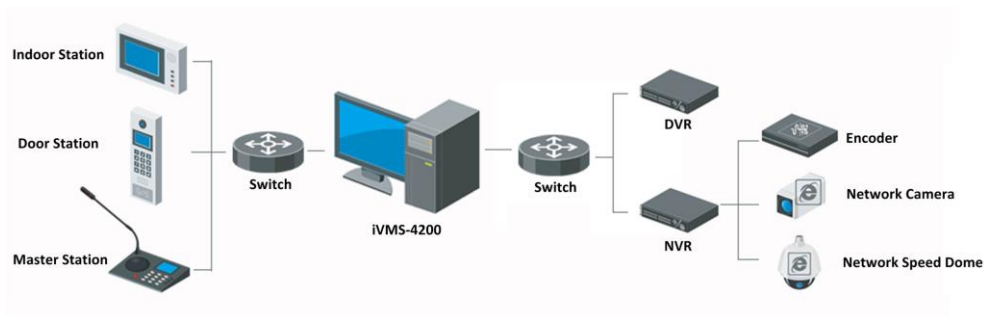


## Typical Application

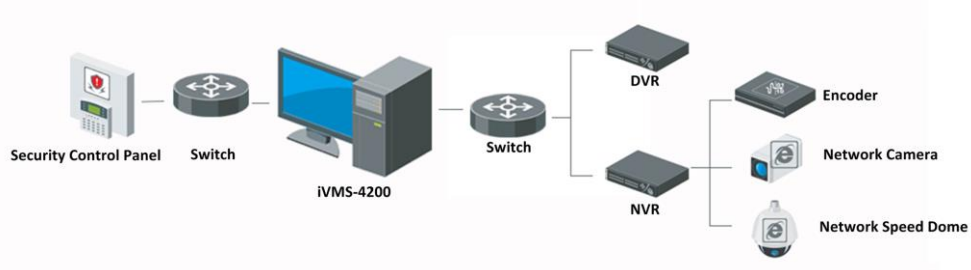
### Application for Video Security



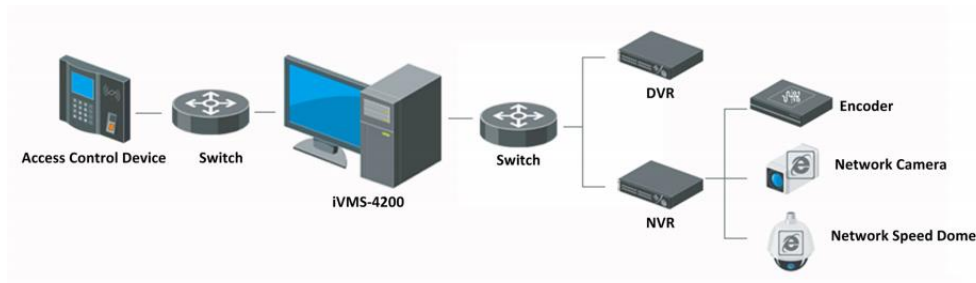
### Application for Video Intercom



### Application for Security Control Panel



### Application for Access Control



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