

## iVMS-4200 v3.1.1 for Windows

### Free Client Software for Hikvision Devices

The Windows-based iVMS-4200 is a versatile client software application for Hikvision video surveillance, access control and video intercom systems. There are modules for live view, playback, event management, e-maps, attendance and smart device data reporting, such as people counting, queue analysis, heat mapping, license plate recognition and facial recognition.

The new iVMS-4200 version 3.1.1 for Windows features a modern user interface with color scheme options, support for 33 languages, fast startup and shutdown, a completely modular installation with nine selectable modules, and a client-service architecture to enhance stability and enable continuity of event and data logs while the client is open or closed.

The client software is widely applied to small-scale projects. Each client installation is configured, maintained and operated independently. The client software is free to download and use, and support is available for free.

#### Live View

- Live View/Instant Playback on Main and Auxiliary Screens
- Custom Window Divisions with Toolbar Shortcuts
- Numerous Expansion Modes for Fisheye Cameras
- PTZ Tracking Linkage with Detection by Fixed Camera
- Resume Live View Status after Restart
- Quick Camera and System Configuration Access

#### Recording

- Main and Sub-Stream Playback (w/Supporting Device)
- Remote Manual Recording
- Continuous, Event and Command Recording
- Store Alarm Pictures on Storage Server
- Configure Hybrid SAN Device in Either Mode
- Video File Overwrite and Delete Expired File

#### Event Management

- Camera Linkage and Multiple Linkage Actions
- Configure Video and Access Control Events
- Search and Export Linked Event Pictures
- Event-Triggered Pop-up Video/Image/Info with Audible Alert
- Receive Events in Real-Time, Retrieve Historical Events
- Input Custom Alarm Sounds
- Display Alarm Source Location on Map

#### Playback

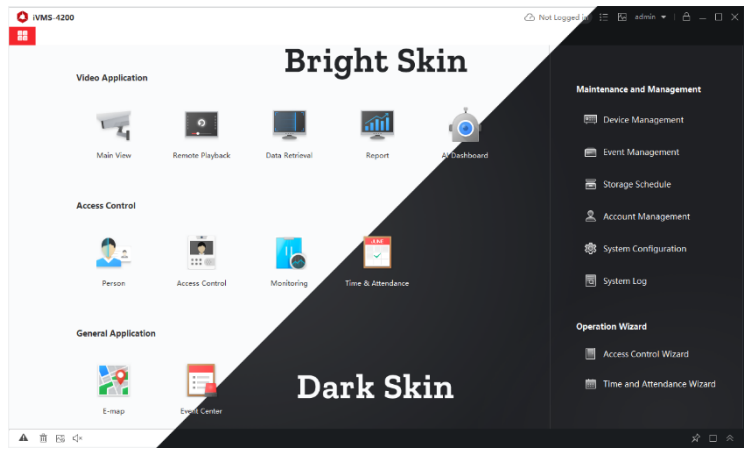
- Local and Remote Playback
- Instant, Normal, Alarm Input, Event, ATM, VCA and Fisheye Playback
- Up to 16-ch Synchronous Playback
- Jump to Specific Playback Time
- Skip Irrelevant Video in VCA Playback
- Search Video by POS Transaction Information
- Video Player Provided with Downloaded Video
- Can Merge Video When Downloading Timeframe with Multiple Files

#### Person Management

- Manage Persons in Multiple Organizations
- Get Person Information
- Import/Export Person Information and Pictures in Batch
- Multiple Credentials: Card Number, QR Code, Face, Fingerprint

#### Access Control and Video Intercom

- Set Holiday Schedule and Access Schedule Template
- Set Door Status Open/Closed Schedule
- Multiple Modes for Card Reader and Person Authentication
- Access Groups Define Access Permissions for Groups of People
- Multi-Factor Authentication, Custom Wiegand, First Person In, Anti-Passback, Multi-Door Interlocking



#### Time and Attendance

- Send Attendance Data to Third-Party MS SQL Database
- Set Time and Attendance Rules
- Customize Overtime Levels and Work Hour Rate
- Set Flexible Timetables, Shifts and Shift Schedules
- Attendance Data: Check-In/Out, Break-In/Out, Overtime-In/Out
- Multiple Report Types Available
- Customizable Reports can be E-Mailed on Schedule
- Set Attendance Scenarios Rules, e.g., One-Shift, Man-Hour Shift

#### Statistics

- Heat Map, People Counting, Generic Counting, Road Traffic, Face Retrieval, License Plate Retrieval, Behavior Analysis, Face Capture, Queuing-Up Time Analysis, Queue Status Analysis, Intersection Analysis Data
- Display and Export Large Pictures of Face Retrieval, License Plate Retrieval and Behavior Analysis

#### Network

- Connect Encoding Devices, Cloud P2P, Access Control Devices, Video Intercom Devices, Storage Servers and Stream Media Servers
- List Users Logged Into Connected Devices
- Time Synchronization with Network Time Protocol (NTP)
- Search Active Online Devices
- Add Devices that have been Added to Cloud P2P Account
- Add Devices by HiDDNS, IP Server and Batch Import
- Two-Way Audio and Broadcast Functions

#### PTZ Control

- Remote PTZ Control, Preset, Patrol and Pattern Settings
- 3D Positioning, Auxiliary Focus and Wiper Control
- Utilize Analog Dome On-Screen Menu via PTZ Control Panel
- One-Touch Patrol and Park Functions

#### General

- Works with Devices on LAN, WAN and Internet
- Compatible with Facial Recognition Devices
- Transmission Encrypted when Logging with SDK using TLS Mode
- Add, Delete, Edit, View, Zoom In/Out and Move E-Maps
- Remotely Configure Added Devices
- User Permission Management
- Activate Devices with a Password and Modify Network Settings
- Enable Hik-Connect Service when Activating Supporting Devices
- Reset Device Password Using Key, QR Code or Security Questions
- Set E-mail when Activating Devices and reset Password by E-Mail
- Hardware Accelerated Decoding Supported in Live View and Playback
- Download Video Files to Client Workstation
- Client Operation and System Log Search and Backup
- Import/Export Configuration File
- Schedule Automatic Backup of Configuration and Data

# Software Specifications

Client — General	
Database	SQLite (encrypted)
Supported Languages	English by default and 32 other languages with language package: Arabic, Bulgarian, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Lithuanian, Norwegian, Polish, Portuguese, Portuguese (Brazil), Romanian, Russian, Serbian, Simplified Chinese, Slovak, Slovenian, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Ukrainian, Vietnamese
Users	50 users and one super user
E-Maps	256
Encoding Devices	256 [DVR, NVR, IPC, encoder]
Groups	256 groups, 256 channels for each group
Channels	256 channels in total
Storage Servers	16
Stream Media Servers	16
Client — Video	
Live View Channels	64-ch live view at a time
Auxiliary Screen Previews	4 auxiliary screens for live view
Playback Channels	16-ch playback at a time (asynchronous/synchronous)
Download Tasks	16-ch downloading tasks at a time
Client — Access Control	
Organization	10 hierarchies
People	3,200
Cards	16,000
Access Groups	128
Access Points	64
Access Controllers	16
Schedule Templates	255
Video Intercom Indoor Stations	512
Time and Attendance Shifts	64
Time and Attendance Data	Retention time is limited only by available hard disk space and the amount of the data generated during usage
Storage Server	
Recording Performance	64-ch × 2 Mbps at a time
VOD Performance	64-ch × 2 Mbps at a time
iVMS-4200 Client	128 iVMS-4200 clients connected to the Storage Server
Stream Media Server	
Incoming/Outgoing Streams	64-ch incoming and 200-ch outgoing video streams

## Minimum System Requirements

Performance Level	Central Processing Unit	Memory	Operating System	Video Resolution
Lowest	Intel® Core™ i3	2 GB DDR3 RAM	Microsoft® Windows 7 SP1 and above (32/64-bit)	1280×768

## System Recommendations

Performance Level	Central Processing Unit	Memory	Operating System	Graphics Processing Unit
Minimal	Intel® Core™ i3-8100	4 GB DDR4 RAM	Microsoft® Windows 8.1 (64-bit)	Intel® UHD Graphics 630
Standard	Intel® Core™ i5-8400	8 GB DDR4 RAM	Microsoft® Windows 10 (64-bit)	Intel® UHD Graphics 630
Advanced	Intel® Core™ i7-9700	16 GB DDR4 RAM	Microsoft® Windows 10 (64-bit)	NVIDIA® GeForce GTX 1660 Ti
Maximal	Intel® Core™ i9-9900	32 GB DDR4 RAM	Microsoft® Windows 10 (64-bit)	NVIDIA® GeForce RTX 2080 Ti

## Live View Performance Samples

Encoding	Resolution	Bit Rate (Mbps)	Frame Rate (fps)	CPU: i3-8100 Graphics Card: GT1030 D5 Windows 7 64-bit			CPU: i5-4590 @ 3.3 GHz Graphics Card: GTX970 Windows 7 64-bit			CPU: i7-6700k @ 4 GHz Graphics Card: GTX1070 Windows 7 64-bit		
				Channels Decoded	CPU Used (%)	Memory Used (MB)	Channels Decoded	CPU Used (%)	Memory Used (MB)	Channels Decoded	CPU Used (%)	Memory Used (MB)
H.264	4CIF	1	30	57	58 to 78	1577	-	-	-	-	-	-
	720p	3	30	-	-	-	25	78 to 89	1330	41	81 to 90	1286
	1080p	6	30	-	-	-	11	65 to 82	460	19	75 to 89	1242
	8 MP	12	30	-	-	-	3	79 to 90	2099	5	63 to 75	1454
H.264+	720p	3	30	24	62 to 84	1208	27	63 to 90	1382	48	53 to 80	1125
	1080p	6	30	11	60 to 89	1024	12	61 to 90	1536	21	80 to 90	1161
	8 MP	12	30	-	-	-	3	70 to 91	686	6	64 to 92	1249
H.265	720p	3	30	14	69 to 91	1054	15	70 to 90	850	26	71 to 89	1251
	1080p	6	30	8	64 to 81	1105	8	60 to 85	1239	15	70 to 88	1284
	8 MP	12	30	-	-	-	2	77 to 92	666	3	51 to 64	1075