

HikCentral Professional

HikCentral Professional is a software platform provided by Hikvision for integrating and managing security systems. It is designed to meet a variety of security challenges on a single platform. With HikCentral Professional, you can manage multiple individual systems with ease, such as video security, access control, security alarms, and more, as well as explore cross-system functionalities.

Daily operations become more efficient while protection of people and property improve all around. Users of all kinds are making smarter decisions.



Key Feature

Light and Efficient

- Lightweight architecture features reduced consumption of system resources
- Capable of managing multiple systems of varying sizes with consistent efficiency

Unified and Flexible

- Supports combining various application plug-ins under a unified, on-demand architecture for collaboration across business segments
- New plug-ins can be continuously developed to meet new business needs

Integrated and Open

- Compatible with virtually all Hikvision products and their abundance of applications, including deep-learning-based analytics and statistics
- Open architecture permits easy integration with third-party systems and hardware



• Features of Main Modules

| Module | Features |
|------------------------|--|
| | Efficient and comprehensive video security |
| | • Quick incident search and location, convenient event search, and quick run-through of video |
| Video | Video export as evidence |
| | Low bandwidth network adaptability |
| | Reliable and flexible storage |
| | Comprehensive and flexible access management methods |
| | Advanced access strategies for sensitive areas |
| | Convenient employee badge design and printing |
| | Clear step-by-step guidance |
| Access Control | Remote personnel registration |
| | Automatically lock or unlock doors |
| | Keep doors in a remain unlocked status during an emergency |
| | Easily count and verify everyone's safety |
| | Opening door via Bluetooth and NFC |
| | Digitalized visitor management |
| Visitor | Visitor registration in advance |
| | Pre-defined access permissions and traceable records |
| | A Watchlist function along with personalized design and printing of badges |
| | Flexible and efficient entrance & exit management |
| | Improved parking experience for drivers |
| Vehicle | Self-service parking query |
| | • Flexible billing |
| | Intuitive and efficient parking operation analysis and transaction analysis reports |
| | Efficient vehicle monitoring for quick response |
| On-Board Monitoring | Reliable archive management |
| | Customized reports for enhanced operational efficiency |
| | Centrally manage various alarm sources |
| Alarm Detection | Real-time display of all kinds of alarms |
| | • Flexible linkage |
| Automatic audio alarms | |
| | The video-based intelligent analysis dashboard enables flexible and extensible digital |
| Intelligent Analysis | applications |
| | Smart commercial analyses |
| C | Manage and configure content for digital signage in an intuitive manner |
| Commercial Display | Pre-installed program templates All programs are proceed visually. |
| | All programs are created visually |
| | Flexible attendance rule-setting |
| Time O Attendence | Diverse attendance reports and customizable templates |
| Time & Attendance | • Easy integration with third-party payroll systems |
| | Supports employees searching for attendance results and submitting applications for |
| | correction |
| | Quick retrieval of important recordings, long-term backups, and file-level permission |
| Portable Enforcement | management |
| | Automatic detection and addition of portable devices through dock stations, and detailed statistical logs for personnel and equipment use. |
| | statistical logs for personnel and equipment use |
| | Display videos on the wall Video auto switch and scheduled playback |
| Smart Wall | Video auto-switch and scheduled playback Alarm pen up an amort well. The alarm wideo will be automatically played in a pen up |
| | • Alarm pop-up on smart wall. The alarm video will be automatically played in a pop-up |
| Dauldus Lat | window on the video wall to notify the operator |
| Parking Lot | • Efficient entrance & exit management with access rules for vehicles, integration with ANPR |
| Management | cameras, and touch-free, non-stop vehicle authentication to help reduce rush hour |



| | congestion |
|---------------------------------|--|
| | Improved parking experience with guidance screens and displays to find vacant spaces Flexible charging options including manual charge and prepayment |
| Evidence Management | Convenient information collection with multi-clients (Mobile Client, Web Client, Control Client) for uploading files Unified management of cross-service evidence files, including videos, pictures, audios, and documents uploading in the daily operation Long-term backup, efficient retrieval: evidence classification, archiving, retrieval, export, one-stop management |
| AR | Easily access key cameras without losing the global view Quick resource location through simple "Click" and "Filter" actions Efficient process for quick event handling from notification to acknowledgment |
| Patrol Management | Design patrol schedules and routes effortlessly using an intuitive e-map interface Security staff check in using access control devices with all data automatically uploaded to the software Report anomalies during the patrol to the center via the Mobile Client Trigger alarms instantly if unauthorized individuals attempt to conduct patrol Comprehensive patrol reports enable managers to assess performance effectively |
| Security Inspection | Identify a wide range of prohibited items timely and accurately, reducing labor costs and security threats Simplify centralized management with real-time detection results, alarm information, and live view |
| Emergency Mustering | Instant response to emergencies with a click to trigger the emergency automatically or manually Enhanced evacuation experience with cycled broadcast of evacuation messages through IP speakers and remaining doors open along the escape route for quick assembly at muster points Efficient confirmation of personnel safety status at muster points, including counting and verification of everyone's presence and checking the most recent locations of missing individuals |
| Remote Site Management (RSM) | Manage multi-site systems in one place, providing a unified view of different resources, and all related events and alarms across sites. Multi-site solutions in terms of the number of devices, remote sites and concurrent events to be handled by the system |
| Maintenance | Visualized network and device topology and alarm notifications Logs are available for event trackback and evidence Check all health status with one click or according to a preset schedule Clearly see the risks and exceptions |



Software Specification

The following table shows the maximum performance of the SYS (System Management Server). For other detailed data and performance, refer to *Software Requirements and Performance*.

| Features | | Maximum Performance | |
|---------------------|---|--|--|
| General | General | | |
| | Encoding Devices | | |
| | Encoding Devices Supporting ONVIF Protocol | 7,040 | |
| | Access Control Devices | 2,048 | |
| | Elevator Control Devices | Note: No more than 1,024 access | |
| | Security Radars | control devices or elevator control devices are allowed. | |
| | Guidance Terminals | devices are allowed. | |
| | IP Speakers | | |
| | Video Intercom Devices | 5,000 | |
| | Guidance Screens | 512 | |
| | Visitor Terminals | 32 | |
| | Body Cameras | 5,000 | |
| | Dock Stations | 1,000 | |
| | Network Transmission Devices | 128 | |
| | On-Board Devices | 1,000 | |
| | Fire Protection Devices | 2,048 | |
| | Entrance/Exit Stations | 40 | |
| | Query Terminals | 16 | |
| | Intelligent Analysis Server | 64 | |
| | Recording Servers | 64 | |
| | Streaming Servers | 64 | |
| Manageable Resource | | 10,000 | |
| | Cameras | With RSM: 100,000 | |
| | Maximum Number of Fisheye Cameras | | |
| | Maximum Number of Cameras for People Counting | 10,000 | |
| | Alarm Inputs (excluding security control panels and | 5.000 | |
| | panic alarm devices) | 5,000 | |
| | Alarm Inputs of Security Control Devices | 10,000 | |
| | Security Control Partitions (Areas) | 2,048 | |
| | Alarm Outputs | 3,000 | |
| | Security Radars and Radar PTZ Cameras | 30 | |
| | DS-5600 Series Face Recognition Terminals When | 22 | |
| | Applied with Hikvision Turnstiles | 32 | |
| | ANPR Cameras | 3,000 | |
| | People Counting Cameras | Recommended: 3,000 | |
| | Heat Map Cameras | Recommended: 1,024 | |
| | Queue Management Cameras | Recommended: 3,000 | |
| | Thermal Cameras | Recommended: 20 ⁽¹⁾ | |
| | Cameras per Area | | |
| | Alarm Inputs per Area | 256 | |
| | Alarm Outputs per Area | | |
| | Event and Alarm Rules | 10,000 | |
| | | • Generally, 100/s within 24 | |
| Event & Alarm | | hours. | |
| | Storage of Events or Alarms Without Pictures | • (Recommended) No more than | |
| | | 1,000/s within 10 minutes. (For | |
| | | access events, no more than | |
| | | 300/s within 10 minutes.) | |
| | Storage of Events or Alarms with Pictures | • 20/s (stored in SYS). | |
| | Storage of Events of Alarms with Fictures | Note: For pictures triggered by an | |



| | | 1 | |
|---------------|--|---|--|
| | | alarm linkage action, the receiving | |
| | | performance varies by the number | |
| | | of pictures: | |
| | | If only one picture is captured | |
| | | by the linkage action, the | |
| | | performance is 20/s. | |
| | | ■ If 3 pictures are captured by | |
| | | the linkage action, the | |
| | | performance is 6/s. | |
| | | 80/s (stored in Recording | |
| | | Server). | |
| | | For access events, 200/s with | |
| | | each picture being 50KB. | |
| | | • Web Client: 20 events or | |
| | | alarms with picture per | |
| | | second; 40 events or alarms | |
| | Events or Alarms Sent to Clients | without picture per second; | |
| | *The clients include Web Client, Control Clients and | • | |
| | Mobile Clients. | 100 access events/s. | |
| | | • Control Client: 120 events or | |
| | | alarm/s. | |
| | | • 100 Clients/s | |
| | Combined Alarm User-Defined Events | 10/s 10,000 | |
| | Concurrent Accesses via Web Clients and Control | 10,000 | |
| | Clients | 100 | |
| | Concurrent Accesses via Mobile Clients | 100 | |
| User and Role | Users | 3,000 | |
| | Roles | 3,000 | |
| | Users for Double Authentications | 50 | |
| | Persons | 1,000,000 | |
| | Departments | 3,000 | |
| | Department Hierarchies | 10 | |
| Person | Size of a Profile Picture | 300 KB | |
| | Total Size of Profile Pictures | 300 GB | |
| | Resigned Persons | 100,000 | |
| | Resignation Types | 100 | |
| | Data Retention Period | Stored for 3 Years | |
| | People Counting | 5 million each year | |
| | Heat Map | 0.25 million each year | |
| | ANPR Records | | |
| | Events | 60 million each year | |
| | Alarms | | |
| Data Storage | Access Records | 1.4 billion each year | |
| | Attendance Records | 55 million each year | |
| | Visitor Records | 10 million each year | |
| | Operation Logs | <u> </u> | |
| | Service Information Logs | 5 million each year | |
| | Service Error Logs | 60 million oach year | |
| | Recording Tags Scheduled Penort Pules of Event and Alarm | 60 million each year 100 | |
| | Scheduled Report Rules of Event and Alarm Event or Alarm Rules in One Event/Alarm Report Rule | 32 | |
| | Records in One Sent Report | 10,000 or 10 MB | |
| Report | Resources Selected in One Report | 10,000 01 10 1015 | |
| νεμοιτ | *With this limitation, you can generate a neat and | 32 | |
| | clear report via the Control Client and it costs less time. | | |
| | Maximum Number of Stores | 1,000 | |
| | <u>.</u> | | |



| | is Pecording Schedule | 30,000 |
|--------------------------|---|------------------------------------|
| Recording | Recording Schedule Recording Schedule Template | 200 |
| | Face Pictures for Comparison | |
| | Face Comparison Groups | 1,000,000 |
| | Persons in One Face Comparison Group | |
| | • | 1,000,000 |
| | Storage of Face Comparison Events Without Pictures | 1,000/s |
| Intelligent Recognition | Storage of Face Comparison Events with Pictures | 100/s (Stored in Recording Server) |
| | Intelligent Analysis Groups | 1,000 |
| | Resources in One Group | 64 |
| | Persons for Intelligent Recognition | 1000,000 |
| Intelligent Analysis | Total Stores | 1,000 |
| intelligent Analysis | Total Analysis Group | 1000 |
| | AR Scenes | 100 |
| | Plans | 512 |
| AD Manitarina | | Note: Up to 100 scenes are allowe |
| AR Monitoring | | for each plan. |
| | Tags for Each Scene | 200 |
| | Tag Groups for Each Scene | 100 |
| | Evidences | 100,000 |
| Evidence Management | Evidence Files | 100,000 |
| | Decoding Devices | 32 |
| | Smart Walls | 32 |
| | Network Keyboard | 8 |
| | Views | 1,000 |
| | View Groups | 100 |
| Smart Wall | • | |
| | Views in One View Group | 10 |
| | Cameras in One View | 256 |
| | Cameras in One Window of Auto-Switch | 20 |
| | Windows of an Auto-Switch | 16 |
| | View Group of an Auto-Switch | 1 |
| Streaming Server | Video Input Bandwidth per Streaming Server | 200 × 2 Mbps |
| | Video Output Bandwidth per Streaming Server | 200 × 2 Mbps |
| ccess Control & Time and | d Attendance & Visitor | |
| | Persons with Credentials for Access Control | 50,000 |
| | Total Credentials (Card + Fingerprint) | 250,000 |
| | Cards | 250,000 |
| | Fingerprints | 200,000 |
| | Irises | 100,000 |
| Access Control | Profiles | 50,000 |
| | Access Points (Doors + Floors) | 1,024 |
| | Access Levels | 512 |
| | Access Schedules | 32 |
| | Templates for Card Printing | 32 |
| | Persons for Time and Attendance | 50,000 |
| | Schedules | 128 |
| | | |
| | Holidays | 32 |
| Time and Attendance | Break Timetable | 128 |
| | Custom Rules for T&A Status on Device | 128 |
| | Pay Code (including overtime types and leave types) | 128 |
| | Approval Roles | 100 |
| | Approval Flows | 1,000 |
| | Concurrent Login of Employees via Client | 500 |
| | | |
| | Visitors | 100,000 |
| Visitor Management | | 100,000 100,000 |



| Entities in Watch List | 10,000 |
|---|--|
| Card Template | 20 |
| Vehicle and Parking Management | |
| Vehicles per List | 5,000 |
| Vehicles | 500,000 |
| Custom Vehicle Types | 10 |
| UVSSs | 4 |
| Vehicle Undercarriage Pictures | 3,000 |
| Storage of ANPR Alarm Without Pictures | 1,000/s |
| Storage of ANPR Alarm with Picture | 20/s (Stored in SYS) 100/s (Stored in Recording Server) |
| Parking Lots | 10 |
| Lanes | Total: 40 In One Parking Lot: 32 |
| Parking Spaces | Total: 3,000 In One Floor: 1,024 |
| Floors in All Parking Lots | 128 |
| Cards Linked with Vehicles | 250,000 |
| Temporary Cards in One Parking Lot | 10,000 |
| Vehicle Passing Frequency in Each Lane | 1 Vehicle/s |
| On-Board Monitoring | , |
| GPS Information Report | Report a GPS information to the platform every 5s, totally 200 GPS information can be sent to the platform per second. |
| Fence Rules for One Vehicle | 4 |
| Deviation Rules for One Vehicle | 4 |
| Vehicles Can Be Located in One Client | 64 |
| Retention Period of GPS Data | 1 Year |
| Retention Period of Statistics Data | 3 Years |
| Maximum Number of Drivers | 10,000 |
| Maximum Number of Driving Routes | 1,000 |
| Portable Enforcement | |
| GPS Report | 200/s when 1,000 body cameras online 250/s when 2,500 body cameras online |
| Alarm Receiving | Generally 100/sNo more than 1,000/s within 1 hour |
| Commercial Display | |
| Materials | 10,000 |
| Programs | 2,000 |
| Schedules | 1,000 |
| Materials Released Each Time | 64 |
| Release Records | 1,000 |
| Video Walls | 512 |
| Applications for Interactive Flat Panel | 1,000 |
| Security Inspection | |
| Analyzers | 8 |
| Walk-Through Metal Detectors | 64 |
| Security Inspection Channels | 1,000 |
| Broadcast | |
| IP Speakers | 2048 |
| Speaker Unit | 128 |
| Broadcast Group | 128 |



| Media Libraries | 100 |
|--|-----|
| Patrol | |
| Maximum Number of Shifts of a Single Route | 8 |

①: This recommended value refers to the number of thermal cameras connected to the system directly. It depends on the maximum performance (data processing and storage) in the situation when the managed thermal cameras uploading temperature data to the system. For thermal cameras connected to the system via NVR, there is no such limit.



System Requirement

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

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|---------------------------------|--|--|
| | Microsoft® Windows 11 64-bit | |
| | Microsoft® Windows 10 64-bit | |
| | Microsoft® Windows 8.1 64-bit | |
| | Microsoft® Windows 7 SP1 64-bit | |
| OS for HikCentral Professional | Microsoft® Windows Server 2019 64-bit | |
| Server Server | Microsoft® Windows Server 2016 64-bit | |
| | Microsoft® Windows Server 2012 R2 64-bit | |
| | Microsoft® Windows Server 2012 64-bit | |
| | Microsoft® Windows Server 2022 | |
| | *For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) | |
| | updated in April, 2014. | |
| | Microsoft® Windows 11 64-bit | |
| | Microsoft® Windows 10 64-bit | |
| | Microsoft® Windows 8.1 64-bit | |
| | Microsoft® Windows 7 SP1 64-bit | |
| | Microsoft® Windows Server 2019 64-bit | |
| OS for Control Client | Microsoft® Windows Server 2016 64-bit | |
| | Microsoft® Windows Server 2012 R2 64-bit | |
| | Microsoft® Windows Server 2012 64-bit | |
| | Microsoft® Windows Server 2022 | |
| | *For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) | |
| | updated in April, 2014. | |
| | Google Chrome® 110 and above | |
| | Firefox® 100 and above | |
| Browser Version | Safari® 13 and above | |
| | Microsoft® Edge 110 and above | |
| | Internet Explorer® 11 and above | |
| Database | PostgreSQL V14.8 | |
| OS for Mobile Client | iOS 12.0 and above | |
| O3 for Mobile Client | Android 6.0 and above | |
| | VMware® ESXi™ 6.x, ESXi™ 7.x | |
| | Microsoft® Hyper-V with Windows Server 2012/2012 R2/2016 (64-bit) | |
| Virtual Machine | *The Control Client cannot run on the virtual machine. | |
| vii tuai iviatiiille | *Refer to the Deployment Guide of HikCentral Professional on VMware Virtual Machines for how the | |
| | streaming server running on the virtual machine. | |
| | *Virtual server migration is not supported. | |



Recommended Hardware Specification



| Processor | Intel ® Xeon® E-2324G @ 3.10 GHz | |
|---|---|--|
| | 16G DDR4 DIMM slots, Supports UDIMM, up to 2666 MT/s, 64GB Max. | |
| Memory | Supports registered ECC | |
| | Internal Controllers: SAS H330 | |
| | Software RAID: PERC S140 | |
| Storage Controllers | External HBAs: 12Gbps SAS HBA (non-RAID) | |
| | Boot Optimized Storage Subsystem: 2x M.2 240GB (RAID 1 or No RAID), 1x M.2 240GB (No | |
| | RAID Only) | |
| Drive Bays | 1T 7.2K SATA×2 | |
| Power Supplies | Single 250W (Bronze) power supply | |
| | Form Factor: Rack (1U) | |
| Dimensions | Chassis Width: 434.00mm (17.08 in) | |
| Difficusions | Chassis Depth: 595.63mm (23.45 in) (3.5"HHD) | |
| | Note: These dimensions do not include: bezel, redundant PSU | |
| Dimensions with Package | 750 mm × 614 mm × 259 mm | |
| (W × D × H) | (29.53" × 24.17" × 10.2") | |
| Net Weight | 12.2 kg | |
| Weight with Package | 18.5 kg | |
| Embedded NIC | 2 x 1GbE LOM Network Interface Controller (NIC) ports | |
| Device Access | Front Ports: 1x USB 2.0, 1 x IDRAC micro USB 2.0 management port | |
| Device Access | Rear Ports: 2 x USB 3.0, VGA, serial connector | |
| | iDRAC9 with Lifecycle Controller | |
| Embedded Management | iDRAC Direct | |
| | DRAC RESTful API with Redfish | |
| | Integrations: | Connections: |
| | Microsoft® System Center | Nagios Core & Nagios XI |
| Integrations and Connections | VMware® vCenter™ | Micro Focus Operations Manager i (OMi) |
| | BMC Truesight (available from BMC) Red Hat Ansible | IBM Tivoli Netcool/OMNIbus |
| | Certify XenServer | 1 |
| | Citrix® XenServer® | |
| Operating Systems | Microsoft Windows Server® with Hyper-V | |
| - k-1 m 11 m 2 l 2 m 12 m 12 m 12 m 12 m 12 | Note: This model is installed with Microsoft Windows Server® 2016 multilingual operating | |
| | system. | |
| Virtual Machines | VMware® ESXi | |



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