

HikCentral Professional

HikCentral Professional is an integrated security software designed to meet versatile security challenges in one intuitive platform: from managing individual systems such as video security, access control, intrusion alarm, etc., to collaborating multiple systems under a unified architecture. While protecting people and property, it makes daily operations more efficient, and helps various kinds of users make smarter decisions.



Key Feature

Home Page

- Providing three predefined Home page modes on Web Client, including system installation and management mode, security control and management mode, and attendance management mode
- Supports customizing Home page mode on Web Client
- Supports customizing control panel on Control Client
- Supports switching Home page mode for visualization and non-visualization management
- Providing different report dashboards for resource status, intelligent analysis results, access records, vacant parking spaces, alarms, etc., on the Home page of Web Client

Wizard

- Providing wizards for video management, access control, vehicle management, alarm detection, and digital signage management on Web Client

Live View and Playback

- Up to 256 channels live view simultaneously
- Custom window division configurable
- Viewing maps and real-time events during live view and playback
- Stream type self-adaptive, transcoded playback, and frame- extracting playback
- Fisheye dewarping of multi-channel
- Controlling PTZ in visualization way
- Supports decoding stream from cameras with high-definition, such as PanoVu series camera

Visual Tracking

Recording and Storage

- Recording schedule for continuous recording, event recording and command recording
- Storing videos on encoding devices, Hybrid SANs, cloud storage servers, pStors
- Providing main storage and auxiliary storage
- Providing video copy-back
- Storing alarm pictures on NVRs, Hybrid SANs, cloud storage servers, pStors, or HikCentral server
- Supports search of VCA event related videos, video footages, and event triggered video footages.

Event and Alarm Management

- Camera linkage, alarm pop-up window and multiple linkage actions
- Multiple events for video surveillance, access control, resource group, resource maintenance, etc.
- Supports adding combined alarms in a visualization way



Access Control, Elevator Control, and Video Intercom

- Setting schedules for free access status and access forbidden status of doors or floors
- Supports multiple access modes for both card reader authentication and person authentication
- Supports assigning an access level to persons, assigning access levels to persons, assigning access levels to person groups, and assigning access levels to an access group
- Supports advanced functions such as multi-factor authentication, anti-passback, and multi-door interlocking
- Controlling door or floor status in real-time
- Calling indoor station by the Control Client
- Calling the platform by door station and indoor station, and answering the call by the Control Client

Person and Visitor Management

- Getting person information from added devices
- Provides multiple types of credentials, including card number, face, and fingerprint, for composite authentications
- Visitor registration and check-out

Security Control

- Real-time alarm management for added security control panels
- Adding zone as hot spot on E-map and viewing the video of the linked camera
- Event and alarm linkage with added cameras, including pop-up live view, captured picture
- Subscribing the events that the Control Client can display in real-time
- Acknowledging the received alarm on the Control Client

Time and Attendance

- Setting different attendance rules for various scenarios, such as normal shift and man-hour shift
- Customizing overtime levels and setting corresponding work hour rate
- Supports assigning shift schedule to person group or person(s), or adding temporary schedule
- Supports multiple types of reports according to different needs and sending reports to specified emails regularly

Entrance and Exit Control

- Managing parking lot, entrances and exits, and lanes.
- Supports linking a LED screen with lane for information display
- Setting entry & exit rules for vehicles in the vehicle lists as well as vehicles not in any vehicle lists
- Entrance and exit control based on license plate recognition, card, or video intercom
- Viewing real-time and history vehicle information and controlling barrier gate manually on the Control Client

Temperature Screening

- Displaying the skin-temperature and whether wearing a mask or not about the recognized persons in real time
- Triggering events and alarms when detects abnormal temperature and no mask worn
- Viewing reports about skin-surface temperature and mask-wearing

Face and Body Recognition

- Displaying the information of the recognized persons in real-time
- Searching history records of recognized persons, including searching in captured pictures, searching matched persons, searching by features of persons, and searching frequently appeared persons

Intelligent Analysis

- Supports setting resource groups and analyzing data by different groups
- Supports intelligent analysis reports including people counting, people density analysis, queue analysis, heat analysis, pathway analysis, person feature analysis, temperature analysis, and vehicle analysis
- Displaying the number of people in specified regions in real-time

Digital Signage

- Supports static materials, including picture, video, audio, TXT file, document, static web page, Android APP, etc.
- Supports dynamic materials, including Streaming Server, network camera, URL, etc.
- Supports uploading up to 10,000 material file. Each file size cannot exceed 4 GB
- Creating normal program, attendance program, and people counting & temperature screening program
- Managing up to 2,000 programs. Program's resolution cannot exceed 4K
- Supports creating a loop schedule, customizing a schedule, or creating schedule by day, by week, or by default
- Managing up to 1,000 schedules
- Supports cut-in program, and cut-in message

Third-Party Integration

- Sending the original attendance data to a third-party database (Microsoft® SQL Server, MySQL, PostgreSQL, or Oracle), thus the client can access third-party T&A and payment system

Network Management

- Managing network transmission devices such as switches, displaying the network connection and hierarchical relationship of the managed resources by a topology
- Viewing the network details between the device nodes in the topology, such as downstream and upstream rate, port information, etc. and checking the connection path
- Exporting the topology and abnormal data to check the device connection status and health status

Software Specification

The following table shows the maximum performance of the HikCentral Professional server. For other detailed data and performance, refer to *Software Requirements & Hardware Performance*.

| Features | | Maximum Performance |
|------------------------------|--|--|
| Devices and Resources | Cameras | General Performance: 3,000 ^① High Performance: 10,000 ^② High Performance (RSM): 100,000 ^② |
| | Managed Device IP Addresses <i>*Including Encoding Devices, Access Control Devices, Elevator Control Devices, Security Control Devices, Digital Signage Terminals, and Remote Sites</i> | General Performance: 1,024 ^① High Performance: 2,048 ^② |
| | Video Intercom Devices | 2,048 |
| | Alarm Inputs (Including Zones of Security Control Devices) | 3,000 |
| | Alarm Outputs | 3,000 |
| | Dock Stations | 1,500 |
| | Security Radars and Radar PTZ Cameras | 30 |
| | Alarm Inputs of Security Control Devices | 2,048 |
| | DS-5600 Series Face Recognition Terminals When Applied with Hikvision Turnstiles | 32 |
| | Recording Servers | 64 |
| | Streaming Servers | 64 |
| | Security Audit Server | 8 |
| | DeepinMind Server | 64 |
| | ANPR Cameras | 3,000 |
| | People Counting Cameras | Recommended: 300 |
| | Heat Map Cameras | Recommended: 70 |
| | Thermal Cameras | Recommended: 20 ^③ |
| | Queue Management Cameras | Recommended: 300 |
| | Digital Signage Terminals | 1,024 |
| | Areas | 3,000 |
| Cameras per Area | 256 | |
| Alarm Inputs per Area | 256 | |
| Alarm Outputs per Area | 256 | |
| Recording | Recording Schedule | General Performance: 3,000 ^① High Performance: 10,000 ^② |
| | Recording Schedule Template | 200 |
| Event & Alarm | Event and Alarm Rules | General Performance: 3,000 ^① High Performance: 10,000 ^② |
| | Storage of Events or Alarms without Pictures | General Performance: 100/s ^① High Performance: 1,000/s ^② |
| | Events or Alarms Sent to Clients <i>*The clients include Control Clients and Mobile Clients.</i> | 120/s 100 Clients/s |
| Picture | Picture Storage <i>*Including event/alarm pictures, face pictures, and vehicle pictures.</i> | 20/s (Stored in SYS Server) 80/s (Stored in Recording Server) |
| Reports | Regular Report Rules | 100 |
| | Event or Alarm Rules in One Event/Alarm Report Rule | 32 |
| | Records in One Sent Report | 10,000 or 10 MB |
| | Resources Selected in One Report <i>*With this limitation, you can generate a neat and clear report via the Control Client and it costs less time.</i> | 20 |
| Data Storage | Data Retention Period | Stored for 3 Years |
| | People Counting | 5 million |

| | | |
|--------------------------------|---|--------------|
| | Heat Map | 0.25 million |
| | ANPR | 60 million |
| | Events | 60 million |
| | Alarms | 60 million |
| | Access Records | 1.4 billion |
| | Attendance Records | 55 million |
| | Visitor Records | 10 million |
| | Operation Logs | 5 million |
| | Service Information Logs | 5 million |
| | Service Error Logs | 5 million |
| | Recording Tags | 60 million |
| Users and Roles | Concurrent Accesses via Web Clients, Control Clients, and OpenAPI Clients | 100 |
| | Concurrent Accesses via Mobile Clients and OpenAPI Clients | 100 |
| | Users | 3,000 |
| | Roles | 3,000 |
| Vehicle (ANPR) | Vehicle Lists | 100 |
| | Vehicles per Vehicle List | 5,000 |
| | Under Vehicle Surveillance Systems | 4 |
| | Vehicle Undercarriage Pictures | 3,000 |
| Entrance & Exit | Lanes | 8 |
| | Cards Linked with Vehicles | 250,000 |
| | Vehicle Passing Frequency in Each Lane | 1 Vehicle/s |
| Face Comparison | Persons with Profiles for Face Comparison | 1,000,000 |
| | Face Comparison Groups | 64 |
| | Persons in One Face Comparison Group | 1,000,000 |
| Person | Person Group | 3,000 |
| | Person Group Hierarchies | 10 |
| Access Control | Persons with Credentials for Access Control | 50,000 |
| | Visitors | 10,000 |
| | Total Credentials (Card + Fingerprint) | 250,000 |
| | Cards | 250,000 |
| | Fingerprints | 200,000 |
| | Profiles | 50,000 |
| | Access Points (Doors + Floors) | 1,024 |
| | Access Levels | 512 |
| Access Schedules | 32 | |
| Time and Attendance | Persons for Time and Attendance | 10,000 |
| | Shift Schedules | 128 |
| | Major Leave Types | 64 |
| | Minor Leave Types of One Major Type | 128 |
| Smart Wall | Decoding Devices | 32 |
| | Smart Walls | 32 |
| | Views | 1,000 |
| | View Groups | 100 |
| | Views in One View Group | 10 |
| | Cameras in One View | 150 |
| | Views Auto-Switched Simultaneously | 32 |
| Intelligent Recognition | Resource Groups for Intelligent Recognition | 1,000 |
| | Resources in One Group | 64 |
| Digital Signage | Materials | 10,000 |
| | Programs | 2,000 |
| | Schedules | 1,000 |
| | Release Records | 1,000 |

| Streaming Server's Maximum Performance | |
|---|--------------|
| Video Input Bandwidth per Streaming Server | 300 × 2 Mbps |
| Video Output Bandwidth per Streaming Server | 300 × 2 Mbps |

- ①: The general performance requires Intel® Xeon® E3-1220 or higher.
②: The high performance requires Intel® Xeon® E5-2620 or higher.
③: 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 limitation.

Hardware Specification



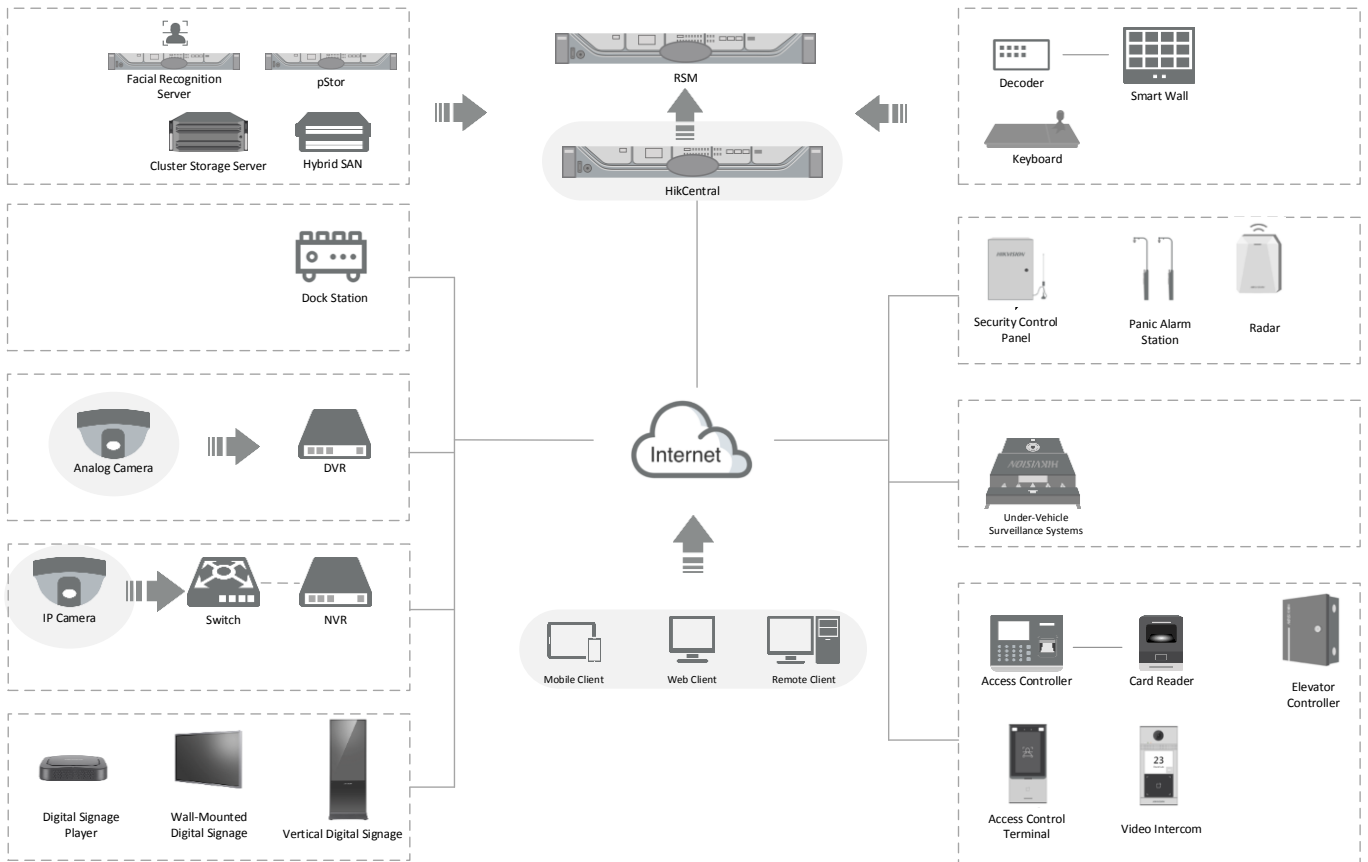
| | | |
|--|---|---|
| Processor | Intel® Xeon® E-2124 | |
| Memory | 16G DDR4 DIMM slots, Supports UDIMM, up to 2666 MT/s, 64GB Max. Supports registered ECC | |
| Storage Controllers | Internal Controllers: SAS_H330 Software RAID: PERC S140 External HBAs: 12Gbps SAS HBA (non-RAID) Boot Optimized Storage 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 | |
| Dimensions | Form Factor: Rack (1U) Chassis Width: 434.00mm (17.08 in) Chassis Depth: 595.63mm (23.45 in) (3.5"HHDD) Note: These dimensions do not include: bezel, redundant PSU | |
| Dimensions with Package (W × D × H) | 750 mm × 614 mm × 259 mm (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 Rear Ports: 2 x USB 3.0, VGA, serial connector | |
| Embedded Management | iDRAC9 with Lifecycle Controller iDRAC Direct DRAC RESTful API with Redfish | |
| Integrations and Connections | Integrations: Microsoft® System Center VMware® vCenter™ BMC Truesight (available from BMC) Red Hat Ansible | Connections: Nagios Core & Nagios XI Micro Focus Operations Manager i (OMi) IBM Tivoli Netcool/OMNibus |
| Operating Systems | Certify XenServer Citrix® XenServer® Microsoft Windows Server® with Hyper-V Red Hat® Enterprise Linux Ubuntu Server This model is installed with Microsoft Windows Server® 2016 multilingual operating system. | SUSE® Linux Enterprise Server VMware® ESXi |

System Requirement

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

| Feature | Description |
|--|--|
| OS for HikCentral Professional Server | Microsoft® Windows 7 SP1 (64-bit) Microsoft® Windows 8.1 (64-bit) Microsoft® Windows 10 (64-bit) Microsoft® Windows Server 2008 R2 SP1 (64-bit) Microsoft® Windows Server 2012 (64-bit) Microsoft® Windows Server 2012 R2 (64-bit) Microsoft® Windows Server 2016 (64-bit) Microsoft® Windows Server 2019 (64-bit) <i>*For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) updated in April, 2014.</i> |
| OS for Control Client | Microsoft® Windows 7 SP1 (32/64-bit) Microsoft® Windows 8.1 (32/64-bit) Microsoft® Windows 10 (64-bit) Microsoft® Windows Server 2008 R2 SP1 (64-bit) Microsoft® Windows Server 2012 (64-bit) Microsoft® Windows Server 2012 R2 (64-bit) Microsoft® Windows Server 2016 (64-bit) Microsoft® Windows Server 2019 (64-bit) <i>*For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) updated in April, 2014.</i> |
| OS for Visitor Terminal | Android 7.1 and later |
| Browser Version | Internet Explorer 11 and above Chrome 61 and above Firefox 57 and above Safari 11 and above (running on Mac OS X 10.3/10.4) |
| Database | PostgreSQL V11.8 |
| OS for Smartphone | iOS 10.0 and later Android phone OS version 5.0 or later, and dual-core CPU with 1.5 GHz or above, and at least 2G RAM |
| OS for Tablet | iOS 10.0 and later Android tablet with Android OS version 5.0 and later |
| Virtual Machine | VMware® ESXi™ 6.x Microsoft® Hyper-V with Windows Server 2012/2012 R2/2016 (64-bit) <i>*The Streaming Server and Control Client cannot run on the virtual machine. *Virtual server migration is not supported.</i> |

Typical Application



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