

## **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
Video	<ul> <li>Quick incident search and location, convenient event search, and quick run-through of video</li> </ul>
	Video export as evidence
	Low bandwidth network adaptability
	Reliable and flexible storage
	Comprehensive and flexible access management methods
	<ul> <li>Advanced access strategies for sensitive areas</li> </ul>
	<ul> <li>Convenient employee badge design and printing</li> </ul>
	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
Visitor	<ul> <li>Pre-defined access permissions and traceable records</li> </ul>
	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
	<ul> <li>Intuitive and efficient parking operation analysis and transaction analysis reports</li> </ul>
	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
7.1.0.1.1.1.2.0.0.0.1.0.1.	Flexible linkage
	Automatic audio alarms
	• The video-based intelligent analysis dashboard enables flexible and extensible digital
Intelligent Analysis	applications
	Smart commercial analyses
	Manage and configure content for digital signage in an intuitive manner
Commercial Display	Pre-installed program templates
	All programs are created visually
	Flexible attendance rule-setting
	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
	Display videos on the wall
Smart Wall	Video auto-switch and scheduled playback     Alexandra and a second and a seco
	• Alarm pop-up on smart wall. The alarm video will be automatically played in a pop-up
	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	
	<ul> <li>congestion</li> <li>Improved parking experience with guidance screens and displays to find vacant spaces</li> </ul>	
	Flexible charging options including manual charge and prepayment	
	• Convenient information collection with multi-clients (Mobile Client, Web Client, Control	
	Client) for uploading files	
	<ul> <li>Unified management of cross-service evidence files, including videos, pictures, audios, and</li> </ul>	
Evidence Management	documents uploading in the daily operation	
	• Long-term backup, efficient retrieval: evidence classification, archiving, retrieval, export,	
	one-stop management	
	Easily access key cameras without losing the global view	
AR	<ul> <li>Quick resource location through simple "Click" and "Filter" actions</li> </ul>	
	Efficient process for quick event handling from notification to acknowledgment	
	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	
Patrol Management	the software	
ration Management	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	
	• Identify a wide range of prohibited items timely and accurately, reducing labor costs and	
Security Inspection	security threats	
	• Simplify centralized management with real-time detection results, alarm information, and	
	live view	
	• 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	
<b>Emergency Mustering</b>	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	
	Manage multi-site systems in one place, providing a unified view of different resources, and	
Remote Site	all related events and alarms across sites.	
Management (RSM)	Multi-site solutions in terms of the number of devices, remote sites and concurrent events	
	to be handled by the system	
	Visualized network and device topology and alarm notifications	
	Logs are available for event trackback and evidence	
Maintenance	Check all health status with one click or according to a preset schedule	
	Clearly see the risks and exceptions	
	Easy Identification & Tracking of Parcels by linking the data from barcode systems and video	
	systems	
Parcel Tracking	• Tracking through the Conveyor belt systems with smart code reader and conventional	
raicei Hacking	cameras	
	● Video Evidence Management: support Video Record Export (MP4/AVI), support Scanning	
	Record Export by Check Point/Parcel ID/timestamp)	
	Real-time analysis loading and unloading rate, quickly locate and playback the processes	
	• Vehicle dispatch process: dock reservation, ANPR, LED screen displaying queuing info,	
Dock Management	speaker for audio broadcast	
	Real-time and visualized display of dock status on the Dock Map	
	Statistics of vehicle operation time, waiting time, etc. by the dashboard	
	Non-contact payment, improve efficiency and upgrade experience	
Canteen Consumption	Diverse consumption mode applicable to different scenarios	
	<ul> <li>Unified management enables high efficiency on management of large plant canteens</li> </ul>	



## **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		
	Encoding Devices	
	Encoding Devices Supporting ONVIF Protocol	
	Access Control Devices	
	Elevator Control Devices	
	Video Intercom Devices	
	Visitor Terminals	
	Security Control Panels and Panic Alarm Devices	
	IP Speakers	
	Query Terminals	
	Guidance Terminals	
	Parking Lot Screens	5,000
	Entrance/Exit Stations	Note: No more than 1,024 access
	On-Board Devices	control devices or elevator control
	Security Inspection Devices	devices, 128 security radars, 32
	UVSSs	visitor terminals, 1,000 dock stations, 128 network transmission
	Body Cameras	devices, , 40 entrances&exits, and 4
	Dock Stations	UVSSs are allowed.
	Network Transmission Devices	ovasa are anowed.
	Digital Signage Terminals	
	Interactive Flat Panels	
	Fire Protection Devices	
	Decoding Devices	
	BACnet Devices	
	Modbus Devices	
Manageable Resource	Payment Terminals	
	Portable Code Scanner	
	Scanning Devices	
	Intelligent Analysis Server	64
	Recording Servers	64
	Streaming Servers	64
	Cameras	10,000
	Carrieras	With RSM: 100,000
	Maximum Number of Fisheye Cameras	10,000
	Maximum Number of Cameras for People Counting	10,000
	Alarm Inputs (excluding security control panels and	5,000
	panic alarm devices)	
	Alarm Inputs of Security Control Devices	10,000
	Security Control Partitions (Areas)	2,048
	Alarm Outputs	3,000
	Radar PTZ Cameras	30
	DS-5600 Series Face Recognition Terminals When	32
	Applied with Hikvision Turnstiles	
	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 <sup>(1)</sup>
	Cameras per Area	256
	Alarm Inputs per Area	



	Alarm Outputs per Area	
	Event Rules	10,000
	Event Receiving Without Pictures	100/s
	Event Receiving with Pictures (Directly Stored in	100/s
	Recording Servers)  Event Receiving with Pictures (Stored in SYS, or	100/
	transmitted to recording servers from SYS)	100/s
Event	Events Sent to Clients  *The clients include Web Client, Control Clients and Mobile Clients.	<ul> <li>Web Client: 20/s (with picture); 40/s (without picture);</li> <li>Control Client: 120 /s.</li> <li>100 Clients/s</li> </ul>
	Combined Alarm	10/s
	User-Defined Events	10,000
	Concurrent Accesses via Web Clients and Control Clients	100
<b>User and Role</b>	Concurrent Accesses via Mobile Clients	100
	Users	3,000
	Roles	10,000
	Persons	100,000
	Total Credentials (Card + Fingerprint)	250,000
	Cards	500,000
	Fingerprints	400,000
	Irises	200,000
	Profile Pictures	1,000,000
Person	Departments	3,000
	Department Hierarchies	10
	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	0.23 million each year
		CO million cook was
	Events	60 million each year
5 . 6	Alarms	4 4 1 1111
Data Storage	Access Records	1.4 billion each year
	Attendance Records	55 million each year
	Visitor Records	10 million each year
	Operation Logs	
	Service Information Logs	5 million each year
	Service Error Logs	
	Recording Tags	60 million each year
Video & Intelligent Analysi		
	Recording Schedule	30,000
Video Security	Recording Schedule Template	200
	Users for Double Authentications	50
Intelligent Recognition	Persons for Intelligent Recognition	1000,000
	Face Comparison Groups	64
	Intelligent Analysis Groups	1,000
Intelligent Analysis	Total Stores	1,000
meembene Analysis	Total Analysis Group	1000
	AR Scenes	100
AR Monitoring	Plans	512
	Tags for Each Scene	200



	T C ( 5   6	100
	Tag Groups for Each Scene	100
	Cases	100,000
	Evidence Files	100,000
	Smart Walls	32
	Network Keyboard	8
	Views	1,000
<b>Evidence Management</b>	View Groups	100
	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
_	Video Input Bandwidth per Streaming Server	200 × 2 Mbps
Streaming Server	Video Output Bandwidth per Streaming Server	200 × 2 Mbps
Access Control & Time and		
	Access Points (Doors + Floors)	1,024
	Access Levels	512
Access Control	Access Group	512
Access control	Access Schedules	32
	Templates for Card Printing	32
	Persons for Time and Attendance	50,000
	Schedules	128
	Break Timetable	128
Time and Attendance	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 Check-In or Reservation Records	100,000
Visitor Management	Visitor Email Templates	20
Visitor ivialiagement	Entities in Watch List	10,000
	Card Template	20
	WhatsApp Template	20
Vehicle and Parking Manag	gement	
Vehicles per List		5,000
Vehicles		500,000
Custom Vehicle Types		10
UVSSs		4
Vehicle Undercarriage Pictu	ires	3,000
Storage of ANPR Alarm Wit		1,000/s
		20/s (Stored in SYS)
Storage of ANPR Alarm with	h Picture	100/s (Stored in Recording Server)
Parking Lots		100/3 (Stored in Recording Server)
i dining LUIS		Total: 40
Lanes		
		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		
		Report a GPS information to the
GPS Information Report		platform every 5s, totally 1,000 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	250/s
Alarm Receiving	100/s
Intercom Groups	128
Persons in One Intercom Group	100
Persons Performing Group Intercom Simultaneously	<ul><li>By streaming server of HCP: 400</li><li>By third-party streaming server:</li><li>600</li></ul>
Commercial Display	
Materials	10,000
Programs	2,000
Schedules	1,000
Materials Released Each Time	64
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	
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 Server 2019 64-bit	
OS for HikCentral Professional	Microsoft® Windows Server 2016 64-bit	
Server	Microsoft® Windows Server 2012 R2 64-bit	
Server	Microsoft® Windows Server 2012 64-bit	
	Microsoft® Windows Server 2022	
	*For 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 Server 2019 64-bit	
	Microsoft® Windows Server 2016 64-bit	
OS for Control Client	Microsoft® Windows Server 2012 R2 64-bit	
	Microsoft® Windows Server 2012 64-bit	
	Microsoft® Windows Server 2022	
	*For Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) updated in April,	
	2014.	
	Google Chrome® 114 and later	
	Firefox® 114 and later	
Browser Version	Safari® 16.6 and later	
	Microsoft® Edge 114 and later	
	Internet Explorer® 11 and later	
Database	PostgreSQL V16.1	
OS for Mobile Client	iOS 12.0 and later	
OS for Mobile Client	Android 6.0 and later	
	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.	
virtuai Macnine	*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	E-2324G(4Cores/8MB/4T/ 3.1-4.6GHz/65W)		
Memory	1 × 16GB up to 2666 MT/s DDR4 UDIMM		
Storage Controllers	Internal Controllers: SAS_H355		
Drive Bays	1T 7.2K SATA×2		
Power Supplies	Single 450W (Bronze) power supply		
Dimensions	Form Factor: Rack (1U) Chassis Width: 434.00mm (17.08 in) 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 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® 2019 multilingual operating system.	SUSE® Linux Enterprise Server VMware® ESXi	



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