

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
Visitor	 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
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
Smart Wall	Display videos on the 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
	 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 Easily access key cameras without losing the global view
AR	 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	
Encoding Devices	
Encoding Devices Supporting ONVIF Protocol	2.040
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
	64
	64
	10,000
Cameras	With RSM: 100,000
Maximum Number of Fisheye Cameras	10,000
Maximum Number of Cameras for People Counting	10,000
Security Control Panels and Panic Alarm Devices	2,048
Alarm Inputs (excluding security control panels and	5,000
panic alarm devices)	3,000
	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	32
Applied with Hikvision Turnstiles	32
ANPR Cameras	3,000
People Counting Cameras	Recommended: 3,000
Heat Map Cameras	Recommended: 1,024
	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
Storage of Events or Alarms Without Pictures	 Generally, 100/s within 24 hours. (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).
	Encoding Devices Encoding Devices Supporting ONVIF Protocol Access Control Devices Elevator Control Devices Security Radars Guidance Terminals IP Speakers Video Intercom Devices Guidance Screens Visitor Terminals Body Cameras Dock Stations Network Transmission Devices On-Board Devices Fire Protection Devices Entrance/Exit Stations Query Terminals Intelligent Analysis Server Recording Servers Streaming Servers Cameras Maximum Number of Fisheye Cameras Maximum Number of Cameras for People Counting Security Control Panels and Panic Alarm Devices Alarm Inputs (excluding security control panels and panic alarm devices) Alarm Outputs Security Radars and Radar PTZ Cameras DS-5600 Series Face Recognition Terminals When Applied with Hikvision Turnstiles ANPR Cameras People Counting Cameras Thermal Cameras Cameras per Area Alarm Inputs per Area Alarm Inputs per Area Event and Alarm Rules



	Events or Alarms Sent to Clients *The clients include Web Client, Control Clients and Mobile Clients.	Note: For pictures triggered by an 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 without picture per second; 100 access events/s. Control Client: 120 events or alarm/s. 100 Clients/s
	Combined Alarm	10/s
	User-Defined Events	10,000
	Concurrent Accesses via Web Clients and Control Clients	100
User and Role	Concurrent Accesses via Mobile Clients	100
	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
Data Storage	ANPR Records	
	Events	60 million each year
	Alarms	1.4 hillion oach year
	Access Records Attendance Records	1.4 billion each year
	Visitor Records	55 million each year 10 million each year
	Operation Logs	10 minion each year
	Service Information Logs	5 million each year
	Service Error Logs	- Similar ederi year
	Recording Tags	60 million each year
	Scheduled Report Rules of Event and Alarm	100
	Event or Alarm Rules in One Event/Alarm Report Rule	32
Report	Records in One Sent Report	10,000 or 10 MB
	Resources Selected in One Report	10,000 01 10 1010
	*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
Video & Intelligent Analys		
Recording	Recording Schedule	30,000
Recording	Recording Schedule Template	200
	Face Pictures for Comparison	1,000,000
	Face Comparison Groups	64
	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
lutell'es at Augher's	Total Stores	1,000
Intelligent Analysis	Total Analysis Group	1000
	AR Scenes	100
	Plans	512
		Note: Up to 100 scenes are allowed
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
		1
	Video Input Bondwidth per Streeming Server	_
Streaming Server	Video Input Bandwidth per Streaming Server	200 × 2 Mbps
A Country I O Time	Video Output Bandwidth per Streaming Server	200 × 2 Mbps
Access Control & Time and		T 50 000
	Persons with Credentials for Access Control	50,000
	Total Credentials (Card + Fingerprint)	250,000
	Cards	250,000
	Fingerprints	200,000
Access Control	Irises	100,000
	Profiles	50,000
	Access Points (Doors + Floors)	1,024
	Access Levels	512
	Access Schedules	32
	Templates for Card Printing	32
Time and Attendance	Persons for Time and Attendance	50,000
	Schedules	128
	Holidays	32
	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
Vielten Manager :	Visitors	100,000
Visitor Management	Visitor Check-In or Reservation Records	100,000



Visitor Email Templates	20	
Entities in Watch List	10,000	
Card Template	20	
Vehicle and Parking Management	20	
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	
-	20/s (Stored in SYS)	
Storage of ANPR Alarm with Picture	100/s (Stored in Recording Server)	
Parking Lots	10	
	Total: 40	
Lanes	In One Parking Lot: 32	
	Total: 3,000	
Parking Spaces	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	
CDC lefeworking Depart	platform every 5s, totally 200 GPS	
GPS Information Report	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		
	• 200/s when 1,000 body cameras	
CDS Panart	online	
GPS Report	• 250/s when 2,500 body cameras	
	online	
	Generally 100/s	
Alarm Receiving	No 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	Microsoft® Windows Server 2016 64-bit	
Server	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	
OS 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)	
Mintural Marahina	*The Control Client cannot run on the virtual machine.	
Virtual Machine	*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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