

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
<b>Video</b>	<ul style="list-style-type: none"> <li>● Efficient and comprehensive video security</li> <li>● Quick incident search and location, convenient event search, and quick run-through of video</li> <li>● Video export as evidence</li> <li>● Low bandwidth network adaptability</li> <li>● Reliable and flexible storage</li> </ul>
<b>Access Control</b>	<ul style="list-style-type: none"> <li>● Comprehensive and flexible access management methods</li> <li>● Advanced access strategies for sensitive areas</li> <li>● Convenient employee badge design and printing</li> <li>● Clear step-by-step guidance</li> <li>● Remote personnel registration</li> <li>● Automatically lock or unlock doors</li> <li>● Keep doors in a remain unlocked status during an emergency</li> <li>● Easily count and verify everyone's safety</li> <li>● Opening door via Bluetooth and NFC</li> </ul>
<b>Visitor</b>	<ul style="list-style-type: none"> <li>● Digitalized visitor management</li> <li>● Visitor registration in advance</li> <li>● Pre-defined access permissions and traceable records</li> <li>● A Watchlist function along with personalized design and printing of badges</li> </ul>
<b>Vehicle</b>	<ul style="list-style-type: none"> <li>● Flexible and efficient entrance &amp; exit management</li> <li>● Improved parking experience for drivers</li> <li>● Self-service parking query</li> <li>● Flexible billing</li> <li>● Intuitive and efficient parking operation analysis and transaction analysis reports</li> </ul>
<b>On-Board Monitoring</b>	<ul style="list-style-type: none"> <li>● Efficient vehicle monitoring for quick response</li> <li>● Reliable archive management</li> <li>● Customized reports for enhanced operational efficiency</li> </ul>
<b>Alarm Detection</b>	<ul style="list-style-type: none"> <li>● Centrally manage various alarm sources</li> <li>● Real-time display of all kinds of alarms</li> <li>● Flexible linkage</li> <li>● Automatic audio alarms</li> </ul>
<b>Intelligent Analysis</b>	<ul style="list-style-type: none"> <li>● The video-based intelligent analysis dashboard enables flexible and extensible digital applications</li> <li>● Smart commercial analyses</li> </ul>
<b>Digital signage</b>	<ul style="list-style-type: none"> <li>● Manage and configure content for digital signage in an intuitive manner</li> <li>● Pre-installed program templates</li> <li>● All programs are created visually</li> </ul>
<b>Time &amp; Attendance</b>	<ul style="list-style-type: none"> <li>● Flexible attendance rule-setting</li> <li>● Diverse attendance reports and customizable templates</li> <li>● Easy integration with third-party payroll systems</li> <li>● Supports employees searching for attendance results and submitting applications for correction</li> </ul>
<b>Maintenance</b>	<ul style="list-style-type: none"> <li>● Visualized network and device topology and alarm notifications</li> <li>● Logs are available for event trackback and evidence</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
<b>General</b>		
<b>Manageable Resource</b>	Managed Devices <i>*Including Encoding Devices, Access Control Devices, Elevator Control Devices, Security Control Devices, Digital Signage Terminals, Interactive Flat Panels, Remote Sites, Guidance Terminals, and IP Speakers</i>	2,048
	Encoding Devices Supporting ONVIF Protocol	2,048
	Video Intercom Devices	5,000
	Guidance Screens	512
	Visitor Terminals	32
	Dock Stations	1,500
	Network Transmission Devices	128
	On-Board Devices	1,000
	Fire Protection Devices	2,048
	Entrance/Exit Stations	40
	Query Terminals	16
	DeepinMind Server	64
	Recording Servers	64
	Streaming Servers	64
	Cameras	10,000 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 panic alarm devices)	5,000
	Alarm Outputs	3,000
	Security Radars and Radar PTZ Cameras	30
	Zones of Security Control Partitions (Areas)	10,000
	Security Control Partitions (Areas)	3,000
	DS-5600 Series Face Recognition Terminals When 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 <sup>①</sup>
	Cameras per Area	256
	Alarm Inputs per Area	
	Alarm Outputs per Area	
	<b>Event &amp; Alarm</b>	Event and Alarm Rules
Storage of Events or Alarms Without Pictures		1,000/s
Storage of Events or Alarms with Pictures		20/s (Stored in SYS) 80/s (Stored in Recording Server)
Events or Alarms Sent to Clients <i>*The clients include Web Client, Control Clients and Mobile Clients.</i>		<ul style="list-style-type: none"> <li>● <b>Web Client:</b> 20 events or alarms with picture per second; 40 events or alarms without picture per second; 100 access events/s.</li> <li>● <b>Control Client:</b> 120 events or</li> </ul>

		alarm/s. ● 100 Clients/s
	Combined Alarm	10/s
	User-Defined Events	10,000
<b>User and Role</b>	Concurrent Accesses via Web Clients and Control Clients	100
	Concurrent Accesses via Mobile Clients	100
	Users	3,000
	Roles	3,000
	Users for Double Authentications	50
<b>Person</b>	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
<b>Data Storage</b>	Data Retention Period	Stored for 3 Years
	People Counting	5 million each year
	Heat Map	0.25 million each year
	ANPR Records	60 million each year
	Events	
	Alarms	
	Access Records	1.4 billion each year
	Attendance Records	55 million each year
	Visitor Records	10 million each year
	Operation Logs	5 million each year
	Service Information Logs	
	Service Error Logs	
Recording Tags	60 million each year	
<b>Report</b>	Scheduled Report Rules of Event and Alarm	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>	32
	Maximum Number of Stores	1,000
<b>Video &amp; Intelligent Analysis</b>		
<b>Recording</b>	Recording Schedule	30,000
	Recording Schedule Template	200
<b>Face Comparison</b>	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
	Storage of Face Comparison Events with Pictures	100/s (Stored in Recording Server)
<b>Intelligent Recognition</b>	Intelligent Analysis Groups	1,000
	Resources in One Group	64
	Persons for Intelligent Recognition	1000,000
<b>BI</b>	Total Stores	1,000
	Total Analysis Group	1000
<b>AR Monitoring</b>	AR Scenes	100
	Plans	512 <i>Note: Up to 100 scenes are allowed for each plan.</i>
	Tags for Each Scene	200
	Tag Groups for Each Scene	100
<b>Evidence Management</b>	Evidences	100,000

	Evidence Files	5,000,000
<b>Smart Wall</b>	Decoding Devices	32
	Smart Walls	32
	Network Keyboard	8
	Views	1,000
	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
	<b>Streaming Server</b>	Video Input Bandwidth per Streaming Server
Video Output Bandwidth per Streaming Server		200 × 2 Mbps
<b>Access Control &amp; Time and Attendance &amp; Visitor</b>		
<b>Access Control</b>	Persons with Credentials for Access Control	50,000
	Total Credentials (Card + Fingerprint)	250,000
	Cards	250,000
	Fingerprints	200,000
	Irises	100,000
	Profiles	50,000
	Access Points (Doors + Floors)	1,024
	Access Levels	512
	Access Schedules	32
	Templates for Card Printing	32
<b>Time and Attendance</b>	Persons for Time and Attendance	50,000
	Schedules	128
	Holidays	32
	Break Timetable	128
	Custom Rules for T&A Status on Device	128
	Overtime Types	128
	Leave Types	100
	Application Roles	1,000
	Application Flows	500
	Concurrent Login of Employees via Client	500
<b>Visitor Management</b>	Visitors	100,000
	Visitor Check-In or Reservation Records	100,000
	Visitor Email Templates	20
	Entities in Watch List	10,000
	Card Template	20
<b>Vehicle and Parking Management</b>		
Vehicles per List		5,000
Vehicles		500,000
Custom Vehicle Types		10
Under Vehicle Surveillance Systems (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
<b>On-Board Monitoring</b>	
Fence 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
<b>Digital Signage</b>	
Materials	10,000
Programs	2,000
Schedules	1,000
Release Records	1,000
Video Walls	512
Applications for Interactive Flat Panel	1,000
<b>Security Inspection</b>	
Analyzers	8
Walk-Through Metal Detectors	64
Security Inspection Channels	1,000
<b>Broadcast</b>	
IP Speakers	2048
Speaker Unit	128
Broadcast Group	128
Media Libraries	100
<b>Patrol</b>	
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 limitation.

## System Requirement

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

<b>OS for HikCentral Professional Server</b>	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 Microsoft® Windows Server 2016 64-bit Microsoft® Windows Server 2012 R2 64-bit Microsoft® Windows Server 2012 64-bit Microsoft® Windows Server 2008 R2 SP1 64-bit Microsoft® Windows Server 2022 <i>*For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) updated in April, 2014.</i>
<b>OS for Control Client</b>	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 Microsoft® Windows Server 2016 64-bit Microsoft® Windows Server 2012 R2 64-bit Microsoft® Windows Server 2012 64-bit Microsoft® Windows Server 2008 R2 SP1 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>
<b>Browser Version</b>	Google Chrome® 100 and above Firefox® 100 and above Safari® 13 and above Microsoft® Edge 100 and above Internet Explorer® 11 and above
<b>Database</b>	PostgreSQL V11.8
<b>OS for Mobile Client</b>	iOS 10.0 and above Android 6.0 and above
<b>Virtual Machine</b>	VMware® ESXi™ 6.x, ESXi™ 7.x Microsoft® Hyper-V with Windows Server 2012/2012 R2/2016 (64-bit) <i>*The Control Client cannot run on the virtual machine.</i> <i>*Refer to the Deployment Guide of HikCentral Professional on VMware Virtual Machines for how the streaming server running on the virtual machine.</i> <i>*Virtual server migration is not supported.</i>

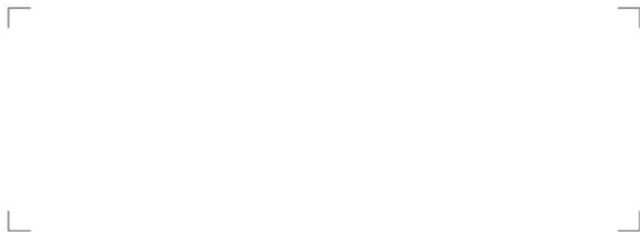
## Recommended Hardware Specification



<b>Processor</b>	Intel® Xeon® E-2314	
<b>Memory</b>	16G DDR4 DIMM slots, Supports UDIMM, up to 2666 MT/s, 64GB Max. Supports registered ECC	
<b>Storage Controllers</b>	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)	
<b>Drive Bays</b>	1T 7.2K SATA×2	
<b>Power Supplies</b>	Single 250W (Bronze) power supply	
<b>Dimensions</b>	Form Factor: Rack (1U) Chassis Width: 434.00mm (17.08 in) Chassis Depth: 595.63mm (23.45 in) (3.5" HDD) <b>Note:</b> These dimensions do not include: bezel, redundant PSU	
<b>Dimensions with Package (W × D × H)</b>	750 mm × 614 mm × 259 mm (29.53" × 24.17" × 10.2")	
<b>Net Weight</b>	12.2 kg	
<b>Weight with Package</b>	18.5 kg	
<b>Embedded NIC</b>	2 x 1GbE LOM Network Interface Controller (NIC) ports	
<b>Device Access</b>	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	
<b>Embedded Management</b>	iDRAC9 with Lifecycle Controller iDRAC Direct DRAC RESTful API with Redfish	
<b>Integrations and Connections</b>	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
<b>Operating Systems</b>	Certify XenServer Citrix® XenServer® Microsoft Windows Server® with Hyper-V <b>Note:</b> This model is installed with Microsoft Windows Server® 2016 multilingual operating system.	
<b>Virtual Machines</b>	VMware® ESXi	



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