

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
i	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 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
J	Customized reports for enhanced operational efficiency
	Centrally manage various alarm sources
	Real-time display of all kinds of alarms
Alarm Detection	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
Digital Signage	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
Maintanan	Visualized network and device topology and alarm notifications
Maintenance	Logs are available for event trackback and evidence



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		
Manageable Resource	Managed Devices *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	2,048
	Encoding Devices Supporting ONVIF Protocol Video Intercom Devices Guidance Screens	2,048 5,000 512
	Visitor Terminals Dock Stations Network Transmission Devices	1,500 128
	On-Board Devices Fire Protection Devices Entrance/Exit Stations	1,000 2,048 40 16
	Query Terminals DeepinMind Server Recording Servers Streaming Servers	64 64 64
	Cameras	10,000 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 panic alarm devices)	5,000
	Alarm Inputs of Security Control Devices	10,000
	Security Control Partitions (Areas)	2,048
	Alarm Outputs	3,000
	DS-5600 Series Face Recognition Terminals When Applied with Hikvision Turnstiles	30
	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 & Alarm	Event and Alarm Rules	10,000
	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 *The clients include Web Client, Control Clients and Mobile Clients.	 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
	Departments	3,000
	Department Hierarchies	10
Person	Size of a Profile Picture	300 KB
reison	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
C	Attendance Records	55 million each year
	Visitor Records	10 million each year
	Operation Logs	,
	Service Information Logs	5 million each year
	Service Error Logs	1
	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
	Records in One Sent Report	10,000 or 10 MB
Report	Resources Selected in One Report	
	*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 Analysi		2,000
	Recording Schedule	30,000
Recording	Recording Schedule Template	200
	Face Pictures for Comparison	1,000,000
	Face Comparison Groups	64
Face Comparison	Persons in One Face Comparison Group	1,000,000
race companison	Storage of Face Comparison Events Without Pictures	1,000/s
	Storage of Face Comparison Events with Pictures	100/s (Stored in Recording Server)
	Intelligent Analysis Groups	1,000
Intelligent Recognition	Resources in One Group	64
intelligent Necognition	Persons for Intelligent Recognition	1000,000
	Total Stores	1,000
BI	Total Analysis Group	1000
	AR Scenes	100
AR Monitoring	Plans	512
	Fidits	
		Note: Up to 100 scenes are allowed for each plan.
	Tags for Each Scane	200
	Tags for Each Scene Tag Groups for Each Scene	100
Evidones Managamast		
Evidence Management	Evidences	100,000



	Evidence Files	5,000,000
	Decoding Devices	32
Smart Wall	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
	Video Input Bandwidth per Streaming Server	200 × 2 Mbps
Streaming Server	Video Output Bandwidth per Streaming Server	200 × 2 Mbps
Access Control & Time and		200 × 2 Wibps
Access Control & Time and	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
	Break Timetable	128
Time and Attendance	Custom Rules for T&A Status on Device	128
	Overtime Types	- 128
	Leave Types	
	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
	Entities in Watch List	10,000
W 11 1 15 11 34	Card Template	20
Vehicle and Parking Manag	gement	F 000
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 Pa	alde a trak	10,000



Vehicle Passing Frequency in Each Lane	1 Vehicle/s		
On-Board Monitoring			
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		
Digital Signage			
Materials	10,000		
Programs	2,000		
Schedules	1,000		
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 limitation.



System Requirement

r For nigh stability and good pe	erformance, the following system requirements must be met.	
	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 HikCentral Professional	Microsoft® Windows Server 2016 64-bit	
Server	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	
	*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 2008 R2 SP1 64-bit	
	*For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355)	
	updated in April, 2014.	
	Google Chrome® 100 and above	
	Firefox® 100 and above	
Browser Version	Safari® 13 and above	
	Microsoft® Edge 100 and above	
	Internet Explorer® 11 and above	
Database	PostgreSQL V11.8	
OS for Mobile Client	iOS 10.0 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 Machina	*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	Intel® Xeon® E-2314 @ 2.80 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)	
Dimensions	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)	IBM Tivoli Netcool/OMNIbus
	Red Hat Ansible	
Operating Systems	Certify XenServer Citrix® XenServer®	
	Microsoft Windows Server® with Hyper-V	
	Note: This model is installed with Microsoft Windows Server® 2016 multilingual operating	
	system.	
Virtual Machines	VMware® ESXi	
	VIVIWAIC LIAN	



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