HIKVISION®

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 surveillance 	
	• 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 	
Access Control	 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 	
	 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	
Mobile 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 	
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	
Time & Attendance	• Diverse attendance reports and customizable templates	
	 Easy integration with third-party payroll systems 	
N A-1	 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		
	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	32 1,500
	Network Transmission Devices Mobile Devices Fire Protection Devices	128 1,000 2,048
	Entrance/Exit Stations Query Terminals	40 16
	DeepinMind Server Recording Servers Streaming Servers	64 64 64
Manageable Resource	Cameras	10,000 With RSM: 100,000
	Maximum Number of Fisheye Cameras Maximum Number of Cameras for People Counting	- 10,000
	Alarm Inputs Alarm Outputs Security Radars and Radar PTZ Cameras	5,000 3,000 30
	Zones of Security Control Partitions Security Control Partitions (Areas)	2,048 256
	DS-5600 Series Face Recognition Terminals When Applied with Hikvision Turnstiles	32
	ANPR Cameras	3,000
	People Counting Cameras	Recommended: 300
	Heat Map Cameras	Recommended: 70
	Thermal Cameras	Recommended: 20 ^①
	Queue Management Cameras Cameras per Area Alarm Inputs per Area	Recommended: 300 256
	Alarm Outputs per Area Event and Alarm Rules	10,000
	Storage of Events or Alarms Without PicturesStorage of Events or Alarms with Pictures	1,000/s20/s (Stored in SYS)80/s (Stored in Recording Server)
Event & Alarm	Events or Alarms Sent to Clients *The clients include Web Client, Control Clients and Mobile Clients.	120/s 100 Clients/s
	Combined Alarm	10/s
	User-Defined Events Concurrent Accesses via Web Clients and Control	10,000 100
User and Role	Clients Concurrent Accesses via Mobile Clients	100



	Users	3,000	
	Roles	3,000	
	Users for Double Authentications	50	
	Person Group	3,000	
Person	Person Group Hierarchies	10	
1 213011	Size of a Profile Picture	300 KB	
	Total Size of Profile Pictures	300 GB	
	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	
_	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	
	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	· · · · · · · · · · · · · · · · · · ·	10,000 01 10 WB	
Report	Resources Selected in One Report	32	
	*With this limitation, you can generate a neat and clear report via the Control Client and it costs less time.	52	
	•	1 000	
Video & Intelligent Analysi	Maximum Number of Stores	1,000	
Video & Intelligent Analysi	Recording Schedule	30,000	
Recording	Recording Schedule Template	200	
	Face Pictures for Comparison	1,000,000	
	•	64	
Face Commentions	Face Comparison Groups Persons in One Face Comparison Group		
Face Comparison		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)	
	Intelligent Analysis Groups	1,000	
Intelligent Recognition	Resources in One Group	64	
	Persons for Intelligent Recognition	1000,000	
Evidence Management	Evidences	100,000	
	Evidence Files	5,000,000	
	Decoding Devices	32	
	Smart Walls	32	
	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	
	View Group of an Auto-Switch	1	
Change and an O	Video Input Bandwidth per Streaming Server	200 × 2 Mbps	
STROOMING SOLVOR		200 × 2 Mbps	
Streaming Server	Video Output Bandwidth per Streaming Server	Access Control & Time and Attendance & Visitor	
_			
Access Control & Time and	Attendance & Visitor Persons with Credentials for Access Control	50,000	
	Attendance & Visitor Persons with Credentials for Access Control Total Credentials (Card + Fingerprint)	50,000 250,000	
Access Control & Time and	Attendance & Visitor Persons with Credentials for Access Control	50,000	



		100.000
	Irises	100,000
	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	10,000
	Shift Schedules	128
	Major Leave Types	64
Time and Attendance	Minor Leave Types of One Major Type	128
	Holidays	32
	Break Timetable	128
	Custom Rules for T&A Status on Device	128
	Visitors	100,000
	Visitor Check-In or Reservation Records	100,000
Visitor Management	Visitor Email Templates	20
	Entities in Watch List	10,000
Vehicle and Parking Mana		
Vehicles per List		5,000
Vehicles		500,000
Custom Vehicle Types		10
Under Vehicle Surveillance	Suctome (LIV/SSc)	4
	• • •	
Vehicle Undercarriage Pict		3,000
Storage of ANPR Alarm Wi	Ithout Pictures	1,000/s
Storage of ANPR Alarm wit	th Picture	20/s (Stored in SYS)
Darking Lata		100/s (Stored in Recording Server) 10
Parking Lots		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 P		10,000
Vehicle Passing Frequency	r in Each Lane	1 Vehicle/s
Mobile Monitoring		
Fence Rules for One Vehic		4
Vehicles Can Be Located in		64
Retention Period of GPS D		6 Months
Retention Period of Statist		3 Years
Maximum Number of Driv		10,000
Maximum Number of Driv	ing Routes	1,000
Digital Signage		
Materials		10,000
Programs		2,000
Schedules		1,000
Release Records		1,000
Video Walls		512
Applications for Interacti	ve Flat Panel	1,000
Security Inspection		
Analyzers		8
Walk-Through Metal Dete	ctors	64
Security Inspection Channels		1,000
Broadcast IP Speakers		2048



1	Broadcast Group	128
	Media Libraries	100
	Patrol	
Maximum Number of Shifts of a Single Route 8		8

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.

	ijomanec, the johowing 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 [®] 84 and above
	Firefox [®] 84 and above
Browser Version	Safari [®] 11 and above
	Microsoft [®] Edge 89 and above
	Internet Explorer [®] 11 and above
Database	PostgreSQL V11.8
OS for Mobile Client	iOS 10.0 and above
	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 Machine	*The Control Client cannot run on the 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-2124		
	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		
Pevice Access Front Ports: 1x USB 2.0, 1 x IDRAC m		SB 2.0 management port	
	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		
	Certify XenServer		
Operating Systems	Citrix [®] XenServer [®] Microsoft Windows Server [®] with Hyper-V Note: This model is installed with Microsoft Windows Server [®] 2016 multilingual operating system. VMware [®] ESXi		
Operating Systems			
Virtual Machines			



Distributed by

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