

HikCentral Professional

HikCentral Professional is a flexible, scalable, reliable and powerful central surveillance system. It can be delivered after pre-installed on a server.

HikCentral Professional provides central management, information sharing, convenient connection and multi-service cooperation. It is capable of adding devices for management, live view, storage and playback of video files, alarm linkage, access control, time and attendance, facial identification, and so on.



Key Feature

Live View and Playback

- Up to 256 channels live view simultaneously
- Custom window division configurable
- Viewing maps and real-time events during live view and playback
- Adding tags during playback and playing tagged video
- Transcoded playback, frame- extracting playback, and stream type self-adaptive
- Fisheye Dewarping

Visual Tracking

Recording and Storage

- Recording schedule for continuous recording, event recording and command recording
- Storing videos on encoding devices, Hybrid SANs, pStors, or in pStor cluster service
- Providing main storage and auxiliary storage
- Providing video copy-back
- Storing alarm pictures on NVRs, Hybrid SANs, pStors, or HikCentral server

Event Management

- Camera linkage, alarm pop-up window and multiple linkage actions
- Multiple events for video surveillance, access control, resource group, resource maintenance, etc.

Person and Visitor Management

- Getting information from added devices
- Provides multiple types of credentials, including card number, face, and fingerprint, for composite authentications
- Visitor registration and check-out

Access Control and Video Intercom

- Supports multiple access modes for both card reader authentication and person authentication
- Setting access groups to relate persons, templates, and access points, which defines the access levels of different persons
- Supports advanced functions such as multi-factor authentication, anti-passback, and multi-door interlocking
- Controlling door status in real-time
- Calling indoor station by the Control Client
- Calling the platform by door station and indoor station, and answering the call by the Control Client





Time and Attendance

- Setting different attendance rules for various scenarios, such as one-shift and man-hour shift
- Customizable overtime levels and setting corresponding work hour rate
- Supports flexible and quick settings of timetables and shift schedule
- Supports multiple types of reports according to different needs and sending reports to specified emails regularly
- Sending the original attendance data to a third-party database, thus the client can access third-party T&A and payment system

Supported Database Type	Version
Microsoft® SQL Server	2008 R2 and above
PostgreSQL	9.6.2 and above
MySQL	8.0.11 and above
Oracle	12.2.0.1 and above

Security Control

- Real-time alarm management for added security control panels
- Adding zone as hot spot on E-map and viewing the video of the linked camera
- Event and alarm linkage with added cameras, including pop-up live view, captured picture
- Subscribing the events that the Control Client can display in real-time
- Acknowledging the received alarm on the Control Client

Temperature Screening

- Displaying the skin-temperature and whether wearing a mask or not about the recognized persons in real time
- Triggering events and alarms when detects abnormal temperature and no mask worn
- Viewing reports about skin-surface temperature and mask-wearing

Face and Body Recognition

- Displaying the information of the recognized persons in real-time
- Searching history records of recognized persons, including searching in captured pictures, searching matched persons, searching by features of persons, and searching frequently appeared persons

Intelligent Analysis

- Supports setting resource groups and analyzing data by different groups
- Supports intelligent analysis reports including people counting, people density analysis, queue analysis, heat analysis, pathway analysis, person feature analysis, temperature analysis, and vehicle analysis
- Display the number of people in specified regions in real-time

Network Management

- Managing network transmission devices such as switches, displaying the network connection and hierarchical relationship of the managed resources by a topology
- Viewing the network details between the device nodes in the topology, such as downstream and upstream rate, port information, etc. and checking the connection path
- Exporting the topology and abnormal data to check the device connection status and health status



Software Specification

The following table shows the maximum performance of the HikCentral Professional server. For other detailed data and performance, refer to *Software Requirements & Hardware Performance*.

Features		Maximum Performance
	Cameras	Centralized Deployment: 3,000 ^① Distributed Deployment: 10,000 ^② Central System (RSM): 100,000 ^③
	Managed Device IP Addresses *Including Encoding Devices, Access Control Devices, Elevator Control Devices, Security Control Devices, and Remote Sites	Centralized Deployment: 1,024 ^① Distributed Deployment: 2,048 ^②
	Video Intercom Devices Alarm Inputs (Including Zones of Security Control Devices)	1,024 3,000
	Alarm Outputs Dock Stations	3,000 1,500
	Security Radars and Radar PTZ Cameras Alarm Inputs of Security Control Devices	2,048
Devices and Resources	DS-5600 Series Face Recognition Terminals When Applied with Hikvision Turnstiles Recording Servers	32 64
Resources	Streaming Servers Security Audit Server	64 8
	DeepinMind Server ANPR Cameras	64 3,000
	People Counting Cameras Heat Map Cameras	Recommended: 300 Recommended: 70
	Thermal Cameras Queue Management Cameras	Recommended: 20 ⁽⁴⁾ Recommended: 300
	Areas Cameras per Area	3,000 256
	Alarm Inputs per Area Alarm Outputs per Area	256 256
	Resource Groups Resources in One Resource Group Recording Schedule	1,000 64 10,000
Recording	Recording Schedule Template	200 Centralized Deployment: 3,000
Event & Alarm	Event and Alarm Rules	Distributed Deployment: 10,000 Central System (RSM): 10,000
	Storage of Events or Alarms without Pictures	Centralized Deployment: 100/s Distributed Deployment: 1000/s
	*The clients include Control Clients and Mobile Clients. Notification Schedule Templates	120/s 100 Clients/s 200
Picture	Picture Storage *Including event/alarm pictures, face pictures, and vehicle pictures.	20/s (Stored in SYS Server) 120/s (Stored in Recording Server)
Reports	Regular Report Rules Event or Alarm Rules in One Event/Alarm Report Rule Resords in One Sont Report	100 32
	Records in One Sent Report Resources Selected in One Report *With this limitation, you can generate a neat and clear report via the Control Client and it costs less time.	10,000 or 10 MB 20
Data Storage	Data Retention Period	Stored for 3 Years



	People Counting	5 million	
	Heat Map	0.25 million	
	ANPR	60 million	
	Events	60 million	
	Alarms	60 million	
	Access Records	1.4 billion	
	Attendance Records	55 million	
	Visitor Records	10 million	
	Operation Logs	5 million	
	Service Information Logs	5 million	
	Service Error Logs	5 million	
	Recording Tags	60 million	
	Concurrent Accesses via Web Clients, Control Clients, and	100	
	OpenAPI Clients	100	
Users and Roles	Concurrent Accesses via Mobile Clients and OpenAPI Clients	100	
	Users	3,000	
	Roles	3,000	
	Vehicle Lists	100	
Vahiala (ANDD)	Vehicles per Vehicle List	5,000	
Vehicle (ANPR)	Under Vehicle Surveillance Systems	4	
	Vehicle Undercarriage Pictures	3,000	
	Lanes	8	
Entrance & Exit	Cards Linked with Vehicles	250,000	
	Vehicle Passing Frequency in Each Lane	1 Vehicle/s	
	Persons with Profiles for Face Comparison	1,000,000	
Face Comparison	Face Comparison Groups	64	
	Persons in One Face Comparison Group	1,000,000	
	Persons with Credentials for Access Control	50,000	
	Visitors	10,000	
	Total Credentials (Card + Fingerprint)	250,000	
	Cards	250,000	
	Fingerprints	200,000	
Access Control	Profiles	50,000	
	Access Points (Doors + Floors)	1,024	
	Access Groups	512	
	Persons in One Access Group	50,000	
	Access Levels	512	
	Access Schedules	32	
	Persons for Time and Attendance	10,000	
	Attendance Groups	256	
Time and	Persons in One Attendance Group	10,000	
Attendance	Shift Schedules	128	
	Major Leave Types	64	
	Minor Leave Types of One Major Type	128	
	Decoding Devices	32	
	Smart Walls	32	
	Views	1,000	
Smart Wall	View Groups	100	
	Views in One View Group	10	
	Cameras in One View	150	
	Views Auto-Switched Simultaneously	32	
Streaming Server's Maximum Performance			
Video Input Bandwic	dth per Streaming Server	300 × 2 Mbps	
Video Output Bandwidth per Streaming Server		300 × 2 Mbps	
		<u> </u>	



- ①: For one site, the maximum number of the added encoding devices, access control devices, security control devices, and video intercom devices in total is 1,024. If the number of the manageable cameras (including the cameras directly added to the site and the cameras connected to these added devices) exceeds 3,000, the exceeded cameras cannot be imported to the areas.
- 2: For one site with Application Data Server deployed independently, the maximum number of the added encoding devices, access control devices, and security control devices in total is 2,048. If the number of the manageable cameras (including the cameras directly added to the system and the cameras connected to these added devices) exceeds 10,000, the exceeded cameras cannot be imported to the areas.
- ③: For one site, if the number of the manageable cameras (including the cameras managed on the current site and the cameras from the Remote Sites) in the Central System exceeds 100,000, the exceeded cameras cannot be managed in the Central System.
- 4: 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.



Hardware Specification



Processor	Intel® Xeon® E-2124		
	16G DDR4 DIMM slots, Supports UDIMM, up to 2666MT/s, 64GB Max. Supports registered		
Memory	ECC		
	Internal Controllers: SAS_H330		
	Software RAID: PERC S140		
Storage Controllers	External HBAs: 12Gbps SAS HBA (non-RAID)		
ŭ	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)		
	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	12.2kg		
Weight with Package	18.5kg		
Embedded NIC	2 x 1GbE LOM Network Interface Controller (NIC) ports		
	Front Ports:		
Device Access	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 and Connections	Integrations:	Connections:	
	Microsoft® System Center	Nagios Core & Nagios XI	
	VMware® vCenter™	Micro Focus Operations Manager i (OMi)	
	BMC Truesight (available from BMC)	IBM Tivoli Netcool/OMNIbus	
	Red Hat Ansible	<u> </u>	
Operating Systems	Microsoft Windows Server® with Hyper-V		

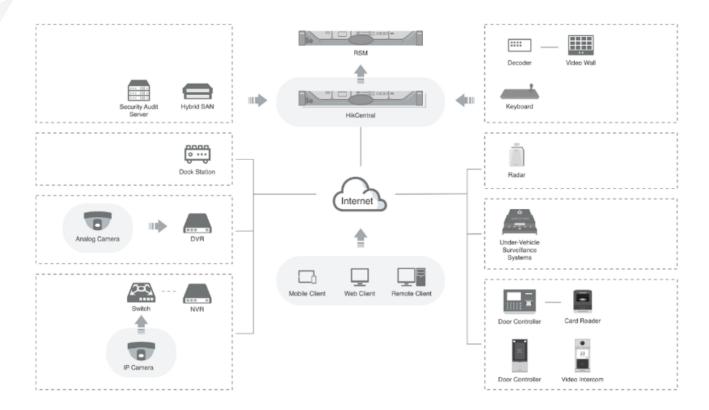


System Requirement

Microsoft® Windows Server 2012 R2 (64-bit) Microsoft® Windows Server 2019 (64-bit) Microsoft® Windows Server 2019 (64-bit) *For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) updated in April, 2014. Microsoft® Windows 7 SP1 (32/64-bit) Microsoft® Windows 8.1 (32/64-bit) Microsoft® Windows 8.1 (32/64-bit) Microsoft® Windows Server 2018 R2 SP1 (64-bit) Microsoft® Windows Server 2018 R2 SP1 (64-bit) Microsoft® Windows Server 2012 R2 (64-bit) Microsoft® Windows Server 2012 R2 (64-bit) Microsoft® Windows Server 2019 (64-bit) Microsoft® Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) updated in April, 2014. OS for Visitor Terminal Internet Explorer 10/11 and above Chrome 61 and above Firefox 57 and above Firefox 57 and above Safari 11 and above (running on Mac OS X 10.3/10.4) Database PostgreSQL V9.6.13 iOS 10.0 and later Android phone OS version 5.0 or later, and dual-core CPU with 1.5 GHz or above, and at least 2G RAM OS for Tablet VMware® ESXI™ 6.x Microsoft® Windows Server 2012/2012 R2/2016 (64-bit)		rformance, the following system requirements must be met.
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System Architecture





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