

HikCentral-VSS-Base-HW-300Ch

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, 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, cloud storage servers, pStors, or in pStor cluster service
- Providing main storage and auxiliary storage
- Providing video copy-back
- Storing alarm pictures on NVRs, Hybrid SANs, cloud storage servers, 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.

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
Devices and Resources	Cameras	300 ^①
	Alarm Inputs	300
	Alarm Outputs	300
	Recording Servers	64
	Streaming Servers	64
	Areas	300
	Cameras per Area	64
	Alarm Inputs per Area	64
	Alarm Outputs per Area	64
Recording	Recording Schedule	3,000
	Recording Schedule Template	200
Event & Alarm	Event and Alarm Rules	3,000
	Storage of Events or Alarms without Pictures	100/s
	Events or Alarms Sent to Clients <i>*The clients include Control Clients and Mobile Clients.</i>	120/s 100 Clients/s
	Notification Schedule Templates	200
Picture	Picture Storage	20/s (Stored in SYS Server)
		120/s (Stored in Recording Server)
Users and Roles	Concurrent Accesses via Web Clients, Control Clients, and OpenAPI Clients	100
	Concurrent Accesses via Mobile Clients and OpenAPI Clients	100
	Users	3,000
	Roles	3,000
Streaming Server's Maximum Performance		
Video Input Bandwidth per Streaming Server		300 × 2 Mbps
Video Output Bandwidth per Streaming Server		300 × 2 Mbps

①: If the number of the manageable cameras (including the cameras directly added to the site and the cameras connected to these added devices) exceeds 300, the exceeded cameras cannot be imported to the areas.

Hardware Specification

Processor	Intel® Xeon® E-2124	
Memory	16G DDR4 DIMM slots, Supports UDIMM, up to 2666 MT/s, 64GB Max. Supports registered ECC	
Storage Controllers	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)	
Drive Bays	1T 7.2K SATA×2	
Power Supplies	Single 250W (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 (W × D × H)	750 mm × 614 mm × 259 mm (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	Microsoft Windows Server® with Hyper-V	

System Requirement

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

Feature	Description
OS for Control Client	Microsoft® Windows 7 SP1 (32/64-bit) Microsoft® Windows 8.1 (32/64-bit) Microsoft® Windows 10 (64-bit) Microsoft® Windows Server 2008 R2 SP1 (64-bit) Microsoft® Windows Server 2012 (64-bit) Microsoft® Windows Server 2012 R2 (64-bit) Microsoft® Windows Server 2016 (64-bit) Microsoft® Windows Server 2019 (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>
OS for Visitor Terminal	Android 7.1 and later
Browser Version	Internet Explorer 10/11 and above Chrome 61 and above Firefox 57 and above Safari 11 and above (running on Mac OS X 10.3/10.4)
OS for Smartphone	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	iOS 10.0 and later Android tablet with Android OS version 5.0 and later

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