## 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 *The clients include Control Clients and Mobile Clients.* | 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.<br>Supports registered ECC |
| **Storage Controllers** | Internal Controllers: SAS_H330<br>Software RAID: PERC S140<br>External HBAs: 12Gbps SAS HBA (non-RAID)<br>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)<br>Chassis Width: 434.00mm (17.08 in)<br>Chassis Depth: 595.63mm (23.45 in) (3.5"HHD)<br>*Note:* These dimensions do not include: bezel, redundant PSU |
| **Dimensions with Package (W × D × H)** | 750 mm × 614 mm × 259 mm<br>(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<br>Rear Ports: 2 x USB 3.0, VGA, serial connector |
| **Embedded Management** | iDRAC9 with Lifecycle Controller<br>iDRAC Direct<br>DRAC RESTful API with Redfish |
| **Integrations and Connections** | Integrations:<br>Microsoft® System Center<br>VMware® vCenter™<br>BMC Truesight (available from BMC)<br>Red Hat Ansible | Connections:<br>Nagios Core & Nagios XI<br>Micro Focus Operations Manager i (OMi)<br>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)<br>Microsoft® Windows 8.1 (32/64-bit)<br>Microsoft® Windows 10 (64-bit)<br>Microsoft® Windows Server 2008 R2 SP1 (64-bit)<br>Microsoft® Windows Server 2012 (64-bit)<br>Microsoft® Windows Server 2012 R2 (64-bit)<br>Microsoft® Windows Server 2016 (64-bit)<br>Microsoft® Windows Server 2019 (64-bit)<br>*\*For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) updated in April, 2014.* |
| **OS for Visitor Terminal** | Android 7.1 and later |
| **Browser Version** | Internet Explorer 10/11 and above<br>Chrome 61 and above<br>Firefox 57 and above<br>Safari 11 and above (running on Mac OS X 10.3/10.4) |
| **OS for Smartphone** | iOS 10.0 and later<br>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<br>Android tablet with Android OS version 5.0 and later |

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