HikCentral v1.2
Central Management System

HikCentral is a Central Management System (CMS) designed for managing distributed sites or large groupings of cameras recording on Hikvision NVRs, DVRs, and CVRs. HikCentral is pre-loaded on a Windows-based server (optional).
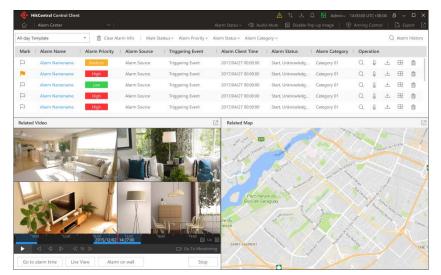
Best User Experience

- User-defined live view and playback functionality enhances video monitoring flexibility
- Alarm notifications generate instant alerts during live view
- Seamless channel switching from live view to playback
- Auto-switching of cameras by area allows operator to monitor multiple video feeds simultaneously without manual intervention
- Powerful thumbnail and timeline search capabilities facilitate quick playback positioning
- Export multiple video channels simultaneously in playback view

Powerful Surveillance Management

- Capacity to mark key evidence manually and/or automatically using alarm-based tagging function
- Protect video files from being overwritten by locking video clips for evidence management
- Search videos by tag, locked status, time interval, time, and file
- "After-the-fact" VCA Search of playback video for motion analysis, line crossing detection, and intrusion detection
- Free mobile client enables video and alarm monitoring anytime, anywhere

Powerful Centralized Management

- Interactive mapping enables intuitive management of alarm inputs/outputs, cameras, hot regions, and historical alarm searching
- Unified alarm center provides real-time alarm management by using an intuitive notification of related pictures, e-map, video clips, and more
- Seamless integration with active directory for user management
- Centralized license plate recognition search, heat map analysis, and people counting statistics extend system functionality

Synchronized playback of multiple video camera feed
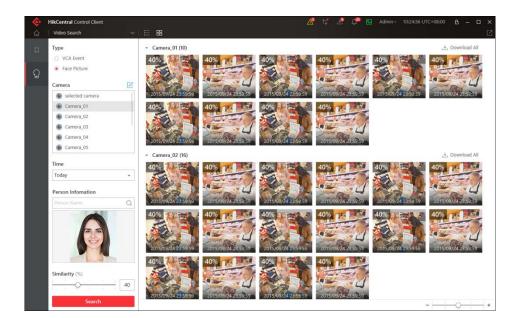
High Reliability

- Strict system test for pre-installation of HikCentral on the Hikvision Management Server
- System support for CVR N+1 Hot Spares for storage redundancy
- Support for Windows cluster and Rose Replicator solutions to augment system reliability

High Scalability

- Expand channel numbers by adding NVR, DVR, IPC, and Blazer Express
- Extend central storage by adding a Central Video Recorder (CVR)
- High video throughput with minimal CPU and RAM requirements
- Support for up to 3,000 channels and 1024 devices per server
- Expand system video input/output by adding Streaming Media Server (SMS); each SMS can support up to 300 x 2 Mbps video inputs and/or outputs

Fast-Deployment

- Pre-loaded software and pre- activated license (optional)
- Lightweight installation package minimizes installation time
- Web client enables management and configuration anytime, anywhere
- One-step configuration automatically detects devices and allows quick access to live view and video playback
- Intuitive Flat GUI design simplifies system configuration and user experience to reduce cost of training
- WAN access port mapping for seamless deployment of remote access

VCA search of playback videos for motion analysis, line crossing, and intrusion detection

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Software Specifications

	Without RSM (E3-1200)	With RSM (E5-2620)
General		
Cameras	3,000[1]	3,000[2] (current site)
		100,000[3] (remote sites)
Alarm Inputs	3,000	
Alarm Outputs	3,000	
Encoding Devices	1,024[1]	-
Encoding Devices, Access Control Devices, and Remote Sites	-	1,024[2,3]
ANPR Cameras	20[4] (maximum: 3000)	
People Counting Cameras	70[5] (maximum: 3000)	
Heat Map Cameras	70[6] (maximum: 3000)	
Recording Servers	64	
Streaming Servers	64	
Areas	3,000	
Area Hierarchies	5	
Cameras per Area	64	
Alarm Inputs per Area	64	
Alarm Outputs per Area	64	
Recording		
Recording Schedules	3,000	30,000 (for cameras on current site and from remote sites)
Recording Schedule Templates	200	
Event and Alarm		
Event and Alarm Rules	3,000	10,000 (current site and remote sites)
Events and Alarms without Pictures Received per Second	120[4]	120[4]
Events and Alarms with Pictures Received per Second	100	
Arming Schedule Templates	200	
Alarm Categories	25	
Alarm Priorities	255	
Email Templates	Unlimited	
Report Rules	100	
Event or Alarm Rules in One Report Rule	32	
Event or Alarm Logs in One Sent Report	10,000 or 10 Mb	
Logs and Records Storage		
Alarm Logs	60,000,000	
Event Logs	60,000,000	
Operation Logs	5,000,000	
System Logs	5,000,000	
Tags	60,000,000	
License Plate Recognition Records	60,000,000	
People Counting Records	5,000,000, stored for 2 years	
Heat Map Records	250,000, stored for 2 years	
Users and Roles		
Concurrent Accesses via Web Clients, Control Clients, and OpenSDK Clients	100	
Concurrent Accesses via Mobile Clients and OpenSDK Clients	100	
Users	3,000	
Roles	3,000	
Map		
E-maps	1,024	
Map Resolution	8192×8192	
Hot Regions per Map	64	
Camera Hot Spots per Map	128	
Alarm Input Hot Spots per Map	128	
Alarm Output Hot Spots per Map	128	
Labels per Map	128	
Hot Regions in Total	1,024	
Camera Hot Spots in Total	3,000	
Alarm Input Hot Spots in Total	3,000	
Alarm Output Hot Spots in Total	3,000	
Labels in Total	3,000	
Elements on GIS Map in Total	3,000	
Vehicle		
Vehicle Lists	100	
Vehicles per Vehicle List	5,000	
Under Vehicle Surveillance Systems	4	
Vehicle Undercarriage Pictures	3,000	
Face Comparison		
Face Pictures	10,000	
Face Comparison Groups	64	
Persons in One Face Comparison	10,000	
Person		
Persons	10,000	
Cards	50,000	
Fingerprints	40,000	
Credentials (Card + Fingerprint)	50,000	

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Access Control	
Access Control Devices	128
Doors	128
Doors on Each E-map	128
Doors on E-maps in Total	128
Anti-Passback Rules	128
Doors in One Anti-Passback Rule	16
Access Groups	64
Persons in One Access Group	1,000
Access Levels	128
Doors in One Access Level	128
Access Levels Assigned to One Access Group	8
Access Schedules	32
Attendance Groups	64
Persons in One Attendance Group	1,000
Shift Schedules	128
Holidays	16
Smart Wall	
Decoding Devices	32
Smart Walls	32
View Groups	100
Views per View Group	10
Views Auto-Switched Simultaneously	32
Operation Logs Storage	500,000

Streaming Server Maximum Performance	
Video Input Bandwidth per Streaming Server	300 x 2 Mbps
Video Output Bandwidth per Streaming Server	300 x 2 Mbps

Supported Languages	
Languages	English, Spanish, Russian, French, Italian, Polish, Turkish, Dutch, Portuguese, German, Czech, Bulgarian, Hungarian, Thai, Danish, Japanese, Simplified Chinese, Traditional Chinese

Hardware Specifications

	E3-1220 V5	E5-2620 V4
Features		
Processer	E3-1220 V5 (4-Core, 3.0 GHz)	E5-2620 V4 (8-Core, 2.1 GHz)
Operating System	Windows Server 2012 R2	Windows Server 2012 R2
Memory	16 Gb DDR4, 2400MT/s UDIMMS	8 Gb RDIMM × 2, 2400MT/s RDIMMS
Storagae	1T SATA × 2, 3.5" Enterprise SATA, 7.2k HDDs	1T SATA × 2, 3.5" Enterprise SATA, 7.2k HDDs
RAID	H330 RAID Controller with RAID 1	H330 RAID Controller with RAID 1
NIC	1GbE × 2	1GbE × 4
Chassis	1U, Rack Mount	2U, Rack Mount
Battery	CR-2032 Coin Cell/Lithium/0.0032 kg	CR-2032 Coin Cell/Lithium/0.0032 kg
Power Supply	250 W Cabled PSU	750 W AC Power Supply × 2
Dimensions (W x D x H)	18.99" × 22.36" × 1.69" (482.38 mm × 567.92 mm × 42.8 mm)	18.99" × 29.76" × 3.44" (482.38 mm × 755.8 mm × 87.3 mm)
Weight	20.94 lbs (9.5 kg)	51.81 lbs (23.5 kg)
Dimensions with Package (W x D x H))	29.53" × 24.17" × 10.2" (750 mm × 614 mm × 259 mm)	37.8" × 24.02" × 11.61" (960 mm × 610 mm × 295 mm)
Weight with Package	34.8 lbs (15.8 kg)	70.8 lbs (32.1 kg)
License	- 64-camera license manageable - 300-camera license manageable	- 16-camera license manageable - 64-camera license manageable - 300-camera license manageable - 8-camera and 2-remote site license mangeable

Compatibility

Model Number	Recommended Firmware Version (or Higher)
Pro Series	
DS-9616NI-ST	3.4.5
DS-9632NI-ST	3.4.5
DS-9664NI-ST	3.4.5
DS-9632NI-I8	3.4.92
DS-9664NI-I8	3.4.92
DS-96128NI-I24/H	3.2.7
DS-96256NI-I24/H	3.2.7
Value Series	
DS-7604NI-E1/4P	3.4.92
DS-7608NI-E2/8P	3.4.92
DS-7616NI-E2/16P	3.4.92
DS-7608NI-I2/8P	3.4.92
DS-7616NI-I2/16P	3.4.92
DS-7716NI-I4/16P	3.4.92
DS-7732NI-I4	3.4.92
DS-7732NI-I4/16P	3.4.92
Decoders	
DS-6401HDI-T	Not compatible

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DS-6404HDI-T	Not compatible
DS-6408HDI-T	Not compatible

Model Number	Recommended Firmware Version (or Higher)
TurboHD 3.0 Series	
DS-7204HGHI-SH	3.1.17
DS-7216HGHI-SH	3.1.17
DS-7208HGHI-SH	3.1.17
DS-7204HUHI-F1/N	3.4.84
DS-7208HUHI-F2/N	3.4.84
DS-7216HUHI-F2/N	3.4.84
DS-7308HUHI-F4/N	3.4.84
DS-9008HUHI-F8/N	3.4.84
DS-9016HUHI-F8/N	3.4.84
DS-7308HQHI-SH	3.1.17
DS-7316HQHI-SH	3.1.17
DS-7332HGHI-SH	3.1.17
DS-9008HQHI-SH	3.1.17
DS-9016HQHI-SH	3.1.17
TurboHD 4.0 Series	
DS-7204HQI-K1	3.5.11
DS-7216HQI-K2	3.5.11
DS-7204HUI-K1	3.5.11
DS-7208HUI-K2	3.5.11
DS-7216HUI-K2	3.5.11

Models Offered

Model	Description
HikCentral RSM: 1-Site	One remote-site CMS add-on. Requires HikCentral Base / 2-Site.
HikCentral RSM: Base/2-Site	Remote Site Manager (RSM) designed for up to 3,000 cameras per CMS. Two-CMS maximum. Projects above two CMS require HikCentral RMS: 1-Site per additional CMS.
HikCentral Smart Wall Module	Advanced Hikvision decoder management.
HikCentral VSS Base: 300-ch	Base HikCentral Management Software package with up to 300 camera licenses, supporting up to 3,000 cameras. Requires one HikCentral VSS Camera add-on per camera.
HikCentral VSS Base: 64-ch	Base HikCentral Management Software package with up to 64 camera licenses, supporting up to 3,000 cameras. Requires one HikCentral VSS Camera add-on per camera.
HikCentral VSS Base: HW/300-ch	HikCentral Management Software with pre-loaded base package that supports a maximum of 300 camera licenses, and up to 3,000 cameras. Requires one HikCentral VSS Camera add-on per camera.
HikCentral VSS Base: HW/64-ch	HikCentral Management Software with pre-loaded base package that supports a maximum of 64 camera licenses, and up to 3,000 cameras. Requires one HikCentral VSS Camera add-on per camera.
HikCentral VSS Camera	One camera connection add-on. Requires HikCentral VSS Base.

[1] For one VSM server, the maximum number of added encoding devices and access control devices totals 1,024. If the number of manageable cameras (including the cameras directly added to the VSM and the cameras connected to these added devices) exceeds 3000, the exceeded cameras cannot be imported.

[2] For one VSM server, the maximum number of added encoding devices, access control devices, and Remote Sites totals 1,024. If the number of manageable cameras (including the cameras directly added to the VSM and the cameras connected to these added devices) exceeds 3000, the exceeded cameras cannot be imported.

[3] For one VSM server, the maximum number of added encoding devices, access control devices, and Remote Sites totals 1,024. If the number of manageable cameras (including the cameras managed on the current site and the cameras from the Remote Sites) in the Central System exceeds 3,000, the exceeded cameras cannot be added to the Central System.

[4] Recommended maximum amount, due to the fact that the system can onu receive a maximum of 20 alarms with pictures per second (picture size: 500 KB).

[5] Recommended maximum amount due to the fact that the camera only uploads one people counting record to the VSM per 15 minute period, and up to 5 million records can be stored for two years.

[6] Recommended maximum amount due to the fact that the camera uploads one heat map record to the VSM per hour, and up to 250,000 heat map records can be stored for two years.

[7] Picture size: 500 KB. Usually, pictures are captured for license plate recognition and face comparison events/alarms.

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