

# HikCentral Professional V1.4 System Requirements & Performance

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# **Chapter 1 System Requirements**

	Microsoft <sup>®</sup> Windows 7 SP1 64-bit
	Microsoft <sup>®</sup> Windows 8.1 64-bit
	Microsoft <sup>®</sup> Windows 10 64-bit
	Microsoft <sup>®</sup> Windows Server 2008 R2 SP1 64-bit
OS for Server*	Microsoft <sup>®</sup> Windows Server 2012 64-bit
	Microsoft <sup>®</sup> Windows Server 2012 R2 64-bit
	Microsoft <sup>®</sup> Windows Server 2016 64-bit
	*For Windows 8.1 and Windows Server 2012 R2, make sure it is installed
	with the rollup (KB2919355) undated in April, 2014.
	Microsoft <sup>®</sup> Windows 7 SP1 32-bit/64-bit
	Microsoft <sup>®</sup> Windows 8.1 32-bit/64-bit
	Microsoft <sup>®</sup> Windows 10 64-bit
	Microsoft <sup>®</sup> Windows Server 2008 R2 SP1 64-bit
OS for Control	Microsoft <sup>®</sup> Windows Server 2012 64-bit
Client	Microsoft <sup>®</sup> Windows Server 2012 R2 64-bit
	Microsoft <sup>®</sup> Windows Server 2016 64-bit
	*For Windows 8.1 and Windows Server 2012 R2, make sure it is installed
	with the rollup (KB2919355) undated in April, 2014.
OS for Mobile	iOS 9.0 and later
Client	Android 4.4 and later
Database	PostgreSQL V 9.6.10
	Internet Explorer 10/11 and above (32-bit)
Dustria	Chrome 61 and above (32-bit)
Browsers	Firefox 57 and above (32-bit)
	Safari 11 and above (running on Mac OS X 10.3/10.4)
	VMware <sup>®</sup> ESXi™ 6.x
Virtual Machine	Microsoft <sup>®</sup> Hyper-V with Windows Server 2012/2012 R2/2016 (64-bit)
(VSM)	<i>Note:</i> The Streaming Server and Control Client cannot run on the virtual
	machine.
	Microsoft <sup>®</sup> Windows Server 2008 R2 SP1 64-bit
Failover Cluster	Microsoft <sup>®</sup> Windows Server 2012 64-bit
	RoseReplicatorPlus_5.1.0_175-x64

\*Server refers to SYS server in centralized deployment, and SYS as well as ADS server in distributed deployment.

#### **Chapter 2 Control Client Decoding Performance**

*Note:* The performance refers to maximum live view channels within up to 80% of CPU consumption (software decoding) or up to 80% of video engine load/decoding value (hardware decoding).

	Configurations					
Feature		Low-End		High	End	
СРИ	Intel <sup>®</sup> Core™ i5-4590	@ 3.3 GHz		Intel <sup>®</sup> Core <sup>™</sup> i7-6700k @ 4 GHz		
RAM	8 GB			16 GB		
NIC	GbE Network Interfac	e Card		GbE Network Interface Card		
Graphics Card	NVIDIA <sup>®</sup> GeForce GTX 970			NVIDIA GeForce GTX 1070		
HDD Type	SATA II Hard Drive or	Better		SATA II Hard Drive or Better		
HDD Capacity	60 GB for OS and HikCentral Control Client			240 GB for OS and HikCentral Control Client		
OS	Microsoft <sup>®</sup> Windows 7 (64-bit)			Microsoft <sup>®</sup> Windows 7 (64-bit)		
			Performance in Softw	are Decoding		
	From a Data (fra)	Bit Rate	Desclution	Maximum Live	View Channels	
Encoding Format	Frame Rate (fps)	(Mbps) Resolution		Low-End	High-End	
	30	0.5	CIF	132	164	
H.264	30	1	4CIF	53	78	
	30	3	720p	21	34	

	30	6	1080p	10	16
	30	8	3 MP	7	12
	30	12	8 MP	2	4
	30	1	720p	25	50
H.264+	30	3	1080p	14	22
	30	4	3 MP	9	18
	30	1	720p	19	32
H.265	30	3	1080p	7	15
	30	4	3 MP	4	8
	30	0.5	720p	22	36
H.265+	30	1	1080p	9	16
	30	2	3 MP	5	12
			Performance in Hardw	are Decoding	
	Bit Rate		Maximum Liv	e View Channels	
Encoding Format	Frame Rate (fps)	(Mbps)	Resolution	Low-End	High-End
	30	0.5	CIF	80	94
	30	1	4CIF	64	68
H.264	30	3	720p	30	36
	30	6	1080p	14	22

	30	8	3 MP	12	13
	30	12	8 MP	3	4
	30	1	720p	30	36
H.264+	30	3	1080p	14	18
	30	4	3 MP	11	15
	30	1	720p		36
	30	3	1080p	This graphics card doesn't	18
H.265	30	4	3 MP	support H.265.	15
	30	6	8 MP		4
	30	0.5	720p		36
H.265+	30	1	1080p	This graphics card doesn't	18
	30	2	3 MP	support H.265+.	14

## **Chapter 3 Server Performance**

#### 3.1 SYS Server (without RSM)

The following table shows:

- Performance of SYS server if the system is centralized deployed.
- Performance of SYS server together with ADS server if the system is distributed deployed.

	SYS Configurations					
Feature	Low-End		High-End			
CPU	Intel <sup>®</sup> Core™ i5-4590 @ 3.30 GHz 3.30 GHz		Intel <sup>®</sup> Xeon <sup>®</sup> E3-1220 V5 @ 3	.00 GHz 3.00 GHz		
RAM	8 GB		16 GB			
NIC	GbE Network Interface Card		GbE Network Interface Card			
HDD for OS	SATA-II 7200 RPM Enterprise Class HDD		SATA-II 7200 RPM Enterprise	e Class HDD		
HDD for Picture	Surveillance-class HDD or high performance netw	ork HDD.	Enterprise-class HDD or high	performance network HDD.		
Storage	It should support 10 MB/s writing and 10 MB/s re	eading.	It should support 20 MB/s w	riting and 20 MB/s reading.		
HDD Capacity	At least 650 GB		At least 650 GB			
OS	Microsoft <sup>®</sup> Windows 8.1 64-bit		Microsoft <sup>®</sup> Windows Server	2012 (R2) 64-bit		
		Maximum Perfo	ormance			
	Feature		Low-End	High-End		
	Managed Device IP Addresses *Including Encoding Devices, Access Control Devices, and Security Control Devices	128		1,024		
Manageable	Encoding Devices	128		Centralized Deployment: 1,024 Distributed Deployment: 2,048		
Resources	Cameras	512		Centralized Deployment: 3,000 Distributed Deployment: 1,0000		
	Alarm Inputs *Including Alarm Inputs of Security Control	512		3,000		

	Devices			
	Alarm Outputs	512	3,000	
	Recording Servers	64 64		
	Streaming Servers			
	ANPR Cameras	512	3,000	
	People Counting Cameras	60 (recommended max. value)	300 (recommended max. value)	
	Heat Map Cameras	-	70 (recommended max. value)	
	Thermal Cameras	5 (recommended max. value)	20 (recommended max. value)	
	Queue Management Cameras	60 (recommended max. value)	300 (recommended max. value)	
	Access Control Devices	32	512	
	Access Points	32	512	
	<b>DS-5600 Series Face Recognition Terminals</b> *Applied with Hikvision Turnstiles	32 *If DS-5600 series devices are applied with third-party turnstiles, they are regarded access control devices.		
	Security Control Devices	4	16	
	Alarm Inputs of Security Control Devices	512	2,048	
	Facial Recognition Servers	16	64	
	Dock Stations	16	1,500	
	Areas	512	3,000	
	Area Hierarchies	5		
Area	Cameras in Each Area	256		
	Alarm Inputs in Each Area	256		
	Alarm Outputs in Each Area	256		
Event 9 Alexis	Alarm Priorities	255		
Event & Alarm	Alarm Categories	25		

	Event or Ala	rm Rules	1,500	Centralized Deployment: 3,000 Distributed Deployment: 10,000
	User-Defined	d Event Rules	400	
	Arming Sche	dule Templates	200	
	Events or Ala	arms Storage	<ul> <li>30 events or alarms without picture per second.</li> <li>5 events or alarms with pictures (500 KB each, stored in SYS server) per second.</li> <li>20 events or alarms with pictures (500 KB each, stored in Recording Server) per second.</li> </ul>	<ul> <li>100 events or alarms without picture per second in centralized deployment.</li> <li>1,000 events or alarms without picture per second in distributed deployment.</li> <li>20 events or alarms with pictures (500 KB each, stored in SYS server) per second.</li> <li>80 events or alarms with pictures (500 KB each, stored in Recording Server) per second.</li> </ul>
	Events or Alarms Sent to Clients		<ul> <li>30 events or alarms/s</li> <li>30 Clients/s (Mobile Clients and Control Clients)</li> </ul>	<ul> <li>120 events or alarms/s</li> <li>100 Clients/s (Mobile Clients and Control Clients)</li> </ul>
	Event Trigge	red Capturing	20 cameras can be triggered to capture pict	ures concurrently per second.
	Alarm Trigge	ered Recording	30 cameras can be triggered to record video concurrently per second.	128 cameras can be triggered to record video concurrently per second.
	Alarm Triggered Actions (Excluding Recording)		152 actions (excluding recording) can be triggered concurrently by alarms per second.	512 actions (excluding recording) can be triggered concurrently by alarms per second.
Recording Schedules		chedules	512	Centralized Deployment: 3,000 Distributed Deployment: 10,000
	Recording So	chedule Templates	200	
		Maps Linked to Each Area	64	
Мар	Мар	Resolution	8192×8192	
	Size for Each Map	10 MB		

		Total Size for Maps	2 GB	15 GB
		Maps	128	1,024
		Cameras on Each Map	16	128
		Alarm Inputs on Each Map	16	128
		Alarm Outputs on Each Map	16	128
		Labels on Each Map	16	128
		UVSS on Each Map	4	4
		Access Points on Each Map	16	128
		Hot Regions on Each Map	8	64
		Cameras on Maps in Total	512	Centralized Deployment: 3,000 Distributed Deployment: 10,000
		Alarm Inputs on Maps in Total	512	3,000
		Alarm Outputs on Maps in Total	512	3,000
		Labels on Maps in Total	512	3,000
		UVSS on Maps in Total	4	4
		Access Points on Maps in Total	32	512
		Hot Regions on Maps in Total	128	1,024
		Elements in Total	3,000	
		Sites	3,000	
		Hot Regions	128	1,024
	0.0.1	Cameras	512	Centralized Deployment: 3,000 Distributed Deployment: 10,000
	GIS Map	Alarm Inputs	512	3,000
		Alarm Outputs	512	3,000
		UVSS	4	4
		Access Points	32	512
		Tags	512	3,000
	Roles	·	400	3,000
User & Role	Users		1,250	3,000

	Roles Assigned to One User	<ul> <li>100 roles can be assigned to one user (Resources linked to one role &lt; 170);</li> <li>50 roles can be assigned to one user (Resources linked to one role &lt; 514).</li> </ul>	<ul> <li>100 roles can be assigned to one user (Resources linked to one role &lt; 1,000);</li> <li>50 roles can be assigned to one user (Resources linked to one role &lt; 3,000).</li> </ul>		
	Concurrent Accesses via Client	<ul> <li>30 Control Clients, Web Clients, or OpenSDK Clients access the system concurrently;</li> <li>30 Mobile Clients or OpenSDK Clients access the system concurrently.</li> </ul>	<ul> <li>100 Control Clients, Web Clients, or OpenSDK Clients access the system concurrently;</li> <li>100 Mobile Clients or OpenSDK Clients access the system concurrently</li> </ul>		
	Data Retention Period	Stored for 3 Years			
	People Counting	5 million			
	Heat Map	0.25 million			
	ANPR	60 million			
Data Storage	Events	60 million			
(BI Data and	Alarms	60 million			
Data Recorded	Access Records	1.4 billion			
in System)	Attendance Records	55 million			
	Operation Logs	5 million			
	Service Information Logs	5 million			
	Service Error Logs	5 million			
	Recording Tags	60 million			
	Persons	2,000	1,000,000		
	Profiles	2,000	1,000,000		
	Cards	10,000	250,000		
Person	Fingerprints	8,000	200,000		
	Credentials (Cards + Fingerprints + Profiles)	10,000	250,000		
	Size of Each Profile	Recommended: 300 KB			
	Total Size of Profiles	500 MB	300 GB		
Access Control	Persons for Access Control	2,000	50,000		

	Anti-Passback Rules	32	128
	Access Points in One Anti-Passback Rule	16	
	Access Groups	16	64
	Persons in One Access Group	1,000	
	Access Levels	32	128
	Access Points in One Access Level	32	128
	Access Levels Assigned to One Access Group	8	
	Access Schedules	32	
	Speed of Applying Deveople Credentials to	<ul> <li>Card: 50ms for one card</li> </ul>	
	Speed of Applying Person's Credentials to Device	<ul> <li>Fingerprint: 1.5s for one fingerprint</li> </ul>	
	Device	<ul> <li>Face credential: 1s for one face picture</li> </ul>	
	Attendance Groups	16	64
	Persons in One Attendance Group	1,000	
	Shift Schedules	32	128
	Holidays	16	
	Persons for Face Comparison	2,000	1,000,000
Face	Face Comparison Groups	16	64
Comparison		<ul> <li>120/s without pictures</li> </ul>	<ul> <li>1000/s without pictures</li> </ul>
companison	Storage of Face Matched/Mismatched Events	• 20/s with pictures (each picture 500 KB,	• 100/s with pictures (each picture 500
		stored in Recording Server)	KB, stored in Recording Server)
	UVSS (Under Vehicle Surveillance Systems)	2	4
	Vehicle Lists	13	100
	Vehicles	60,000	500,000
Vehicle	Undercarriage Pictures (Each 10 MB)	512	3,000
(ANPR)		<ul> <li>5/s with pictures (each picture 500 KB,</li> </ul>	• 20/s with pictures (each picture 500 KB,
	Storage of License Plate Matched/Mismatched	stored in SYS server)	stored in SYS server)
	Events	• 20/s with pictures (each picture 500 KB,	• 100/s with pictures (each picture 500
		stored in Recording Server)	KB, stored in Recording Server)
Report	Regular Report Rules	100	

	Event or Alarm Rules in One Event/Alarm Report	32		
	Records in One Sent Report	10,000 or 10 MB		
	Resources Selected for One Report	<ul> <li>20 people counting cameras searched for one people counting report</li> <li>20 ANPR cameras searched for one vehicle analysis report</li> <li>20 queues searched for one queue analysis report</li> <li>20 presets searched for one temperature report</li> <li>*With this limitation, you can generate a neat and clear report via the Control Client and it costs less time.</li> </ul>		
	Decoding Devices	32		
	Smart Walls	32		
	Views	1,000		
Smart Wall	View Groups	100		
Smart wan	Views Auto-Switched Simultaneously	32		
	<b>Concurrent Accesses via Control Client</b>	5 Control Clients access the system concurre	ntly.	
	Operation Logs Storage	500,000		
	Alarms Displayed on Smart Wall as Actions	5 alarms per second (each alarm has 16 related cameras).		
Others	Streaming Gateway	50 cameras×2 Mbps input and 50 cameras×2 Mbps output	200 cameras×2 Mbps input and 200 cameras×2 Mbps output	

#### 3.2 SYS Server (with RSM)

The following table shows:

- Performance of SYS server if the system is centralized deployed.
- Performance of SYS server together with ADS server if the system is distributed deployed.

SYS Configurations					
Feature	Low-End			High-End	
CPU	Intel <sup>®</sup> Xeon <sup>®</sup> E3-	1220 V5 @ 3.00 GHz 3.00 GHz		Intel <sup>®</sup> Xeon <sup>®</sup> E5-2620 V4 @ 2.4	0 GHz 2.40 GHz
RAM	16 GB			16 GB	
NIC	GbE Network In	terface Card		GbE Network Interface Card	
HDD for OS	SATA-II 7200 RP	M Enterprise Class HDD		SATA-II 7200 RPM Enterprise	Class HDD
HDD for Picture		HDD or high performance network HDD		Enterprise-class HDD or high p	
Storage	It should suppo	rt 20 MB/s writing and 20 MB/s reading.	•	It should support 20 MB/s wri	ting and 20 MB/s reading.
HDD Capacity	At least 650 GB			At least 650 GB	
OS	Microsoft <sup>®</sup> Wind	dows Server 2012 (R2) 64-bit		Microsoft <sup>®</sup> Windows Server 2012 (R2) 64-bit	
		Maxi	mum Perfo	rmance	
	F	eature		Low-End	High-End
		Cameras	512		Centralized Deployment: 3,000 Distributed Deployment: 10,000
	Current Site	Encoding Devices	128		Centralized Deployment: 1,024 Distributed Deployment: 2,048
Manageable Resources		Alarm Inputs *Including Alarm Inputs of Security Control Devices	512		3,000
		Alarm Outputs	512		3,000
		Recording Servers	64		
		Streaming Servers	64		

		ANPR Cameras	512	3,000
		People Counting Cameras	60 (recommended max. value)	300 (recommended max. value)
		Heat Map Cameras	-	70 (recommended max. value)
		Thermal Cameras	5 (recommended max. value)	20 (recommended max. value)
		Queue Management Cameras	60 (recommended max. value)	300 (recommended max. value)
		Access Control Devices	32	512
		Access Points	32	512
		DS-5600 Series Face Recognition Terminals *Applied with Hikvision Turnstiles	32 *If DS-5600 series devices are applied with third-party turnstiles, they are regated as access control devices.	
		Security Control Devices	4	16
		Alarm Inputs of Security Control Devices	512	2,048
		Facial Recognition Servers	16	64
		Dock Stations	16	1500
	Central System	Managed Device IP Addresses *Including Encoding Devices, Access Control Devices, Security Control Devices, and Remote Sites	128	1,024
		Cameras	18,000	100,000
		Areas	512	3,000
		Area Hierarchies	5	
•	<b>Current Site</b>	Cameras in Each Area	256	
Area		Alarm Inputs in Each Area	256	
		Alarm Outputs in Each Area	256	
	Central System	Areas from Remote Sites	18,000	100,000

	Alarm Priorities	255			
	Alarm Categories	25			
	Event or Alarm Rules	<ul> <li>1,500 (Current Site)</li> <li>5,000 (Current Site and Remote Sites)</li> </ul>	<ul> <li>3,000 (Current Site in Centralized Deployment)</li> <li>10,000 (Current Site in Distributed Deployment)</li> <li>10,000 (Current Site and Remote Sites)</li> </ul>		
	User-Defined Event Rules	400			
	Arming Schedule Templates	200	200		
Event & Alarm	Events or Alarms Storage	<ul> <li>30 events or alarms without picture per second.</li> <li>5 events or alarms with pictures (500 KB each, stored in SYS server) per second.</li> <li>20 events or alarms with pictures (500 KB each, stored in Recording Server) per second.</li> </ul>	<ul> <li>100 events or alarms without picture per second in centralized deployment.</li> <li>1,000 events or alarms without picture per second in distributed deployment.</li> <li>20 events or alarms with pictures (500 KB each, stored in SYS server) per second.</li> <li>80 events or alarms with pictures (500 KB each, stored in Recording Server) per second.</li> </ul>		
	Events or Alarms Sent to Clients	<ul> <li>30 events or alarms/s</li> <li>30 Clients/s (Mobile Clients and Control Clients)</li> </ul>	<ul> <li>120 events or alarms/s</li> <li>100 Clients/s (Mobile Clients and Control Clients)</li> </ul>		
	Event Triggered Capturing	20 cameras can be triggered to capture pictures concurrently per second.			
	Alarm Triggered Recording	30 cameras can be triggered to record video concurrently per second.	128 cameras can be triggered to record video concurrently per second.		
	Alarm Triggered Actions (Excluding Recording)	152 actions (excluding recording) can be triggered concurrently by alarms per second.	512 actions (excluding recording) can be triggered concurrently by alarms per second.		

Recording	Recording Schedules		<ul> <li>512 (Current Site)</li> <li>21,000 (Current Site and Remote Sites)</li> </ul>	<ul> <li>3,000 (Current Site in Centralized Deployment)</li> <li>10,000 (Current Site in Distributed Deployment)</li> <li>30,000 (Current Site and Remote Sites)</li> </ul>		
	Recording S	chedule Templates	200	200		
		Maps Linked to Each Area	64			
		Resolution	8192×8192			
		Size for Each Map	10 MB			
		Total Size for Maps	2 GB	15 GB		
		Maps	128	1,024		
		Cameras on Each Map	16	128		
		Alarm Inputs on Each Map	16	128		
		Alarm Outputs on Each Map	16	128		
		Labels on Each Map	16	128		
	Мар	UVSS on Each Map	2	4		
	Ινιαμ	Access Points on Each Map	16	128		
Мар		Hot Regions on Each Map	8	64		
		Cameras on Maps in Total	512	Centralized Deployment: 3,000 Distributed Deployment: 10,000		
		Alarm Inputs on Maps in Total	512	3,000		
		Alarm Outputs on Maps in Total	512	3,000		
		Labels on Maps in Total	512	3,000		
		UVSS on Maps in Total	2	4		
		Access Points on Maps in Total	32	512		
		Hot Regions on Maps in Total	128	1,024		
		Elements in Total	3,000			
	GIS Map	Hot Regions	128	1,024		
		Cameras	512	Centralized Deployment: 3,000		

				Distributed Deployment: 10,000		
		Alarm Inputs	512	3,000		
		Alarm Outputs	512	3,000		
		UVSS	2	4		
		Access Points	32	512		
		Tags	512	3,000		
	Roles		400	3,000		
	Users		1,250	3,000		
User & Role	Roles Assigned to One User		<ul> <li>100 roles can be assigned to one user (Resources linked to one role &lt; 170);</li> <li>50 roles can be assigned to one user (Resources linked to one role &lt; 514).</li> <li>30 Control Clients, Web Clients, or OpenSDK Clients access the system concurrently;</li> <li>30 Mobile Clients or OpenSDK Clients access the system concurrently.</li> </ul>	<ul> <li>100 roles can be assigned to one user (Resources linked to one role &lt; 1,000);</li> <li>50 roles can be assigned to one user (Resources linked to one role &lt; 3,000).</li> <li>100 Control Clients, Web Clients, or OpenSDK Clients access the system concurrently;</li> <li>100 Mobile Clients or OpenSDK Clients access the system concurrently</li> </ul>		
	Data Retention Period		Stored for 3 Years	Stored for 3 Years		
	People Counting		5 million	5 million		
Data Staraca	Heat Map		0.25 million	0.25 million		
Data Storage (BI Data and Data Recorded in System)	ANPR		60 million	60 million		
	Events		60 million	60 million		
	Alarms		60 million	60 million		
	Access Records		1.4 billion	1.4 billion		
	Attendance Records		55 million	55 million		
	Operation Logs		5 million	5 million		

	Service Information Logs	5 million	
	Service Error Logs	5 million	
	Recording Tags	60 million	
	Persons	2,000	1,000,000
	Profiles	2,000	1,000,000
	Cards	10,000	250,000
Person	Fingerprints	8,000	200,000
	Credentials (Cards + Fingerprints + Profiles)	10,000	250,000
	Size of Each Profile	Recommended: 300 KB	
	Total Size of Profiles	500 MB	300 GB
	Persons for Access Control	2,000	50,000
	Anti-Passback Rules	32	128
	Access Points in One Anti-Passback Rule	16	
	Access Groups	16	64
	Persons in One Access Group	1,000	
	Access Levels	32	128
	Access Points in One Access Level	32	128
Access Control	Access Levels Assigned to One Access Group	8	
	Access Schedules	32	
		• Card: 50ms for one card	
	Speed of Applying Person's Credentials to Device	<ul> <li>Fingerprint: 1.5s for one fingerprint</li> </ul>	
		Face credential: 1s for one face picture	
	Attendance Groups	16	64
	Persons in One Attendance Group	1,000	
	Shift Schedules	32	128
	Holidays	16	
Faca	Persons for Face Comparison	2,000	1,000,000
Face Comparison	Face Comparison Groups	16	64
	Storage of Face Matched/Mismatched Events	• 120/s without pictures	• 1,000/s without pictures

		• 20/s with pictures (each picture 500	• 100/s with pictures (each picture 500	
		KB, stored in Recording Server)	KB, stored in Recording Server)	
	UVSS (Under Vehicle Surveillance Systems)	2	4	
	Vehicle Lists	13	100	
	Vehicles	60,000	500,000	
Vehicle	Undercarriage Pictures (Each 10 MB)	512	3,000	
(ANPR)	Storage of License Plate Matched/Mismatched Events	<ul> <li>5/s with pictures (each picture 500 KB, stored in SYS server)</li> <li>20/s with pictures (each picture 500 KB, stored in Recording Server)</li> </ul>	<ul> <li>20/s with pictures (each picture 500 KB, stored in SYS server)</li> <li>120/s with pictures (each picture 500 KB, stored in Recording Server)</li> </ul>	
	Regular Report Rules	100		
	Event or Alarm Rules in One Event/Alarm Report	32		
	Records in One Sent Report	10,000 or 10 MB		
Report	Resources Selected for One Report	<ul> <li>20 people counting cameras searched for one people counting report</li> <li>20 ANPR cameras searched for one vehicle analysis report</li> <li>20 queues searched for one queue analysis report</li> <li>20 presets searched for one temperature report</li> <li>*With this limitation, you can generate a neat and clear report via the Control Client and it costs less time.</li> </ul>		
	Decoding Devices	32		
	Smart Walls	32		
	Views	1,000		
Smart Wall	View Groups	100		
Sinait wan	Views Auto-Switched Simultaneously	32		
	Concurrent Accesses via Control Client	5 Control Clients access the system concurrently.		
	Operation Logs Storage	500,000		
	Alarms Displayed on Smart Wall as Actions	5 alarms per second (each alarm has 16 related cameras).		
Others	Streaming Gateway	50 cameras×2 Mbps input and 50 cameras×2 Mbps output	200 cameras×2 Mbps input and 200 cameras×2 Mbps output	

### 3.3 Streaming Server

Configurations					
Feature	Low-End	High-End			
CPU	Intel <sup>®</sup> Core™ i5-4590 @ 3.30 GHz	Intel <sup>®</sup> Xeon <sup>®</sup> E3-1220 V5 @ 3.00 GHz			
RAM	8 GB	16 GB			
NIC	GbE Network Interface Card	GbE Network Interface Card			
HDD Type	SATA-II 7200 RPM Enterprise Class Hard Drives	SATA-II 7200 RPM Enterprise Class Hard Drives			
HDD Capacity	10 GB for Streaming Server Log Files	10 GB for Streaming Server Log Files			
Maximum Performance					
Input and Output	200 streams×2 Mbps input and 200 streams×2 Mbps output	300 streams×2 Mbps input and 300 streams×2 Mbps output			

