



DSS V8 Products Comparison List



V8.1.0

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1 Basic Information

The DSS V8 product comparison list is based on the following firmware version information.

Software		All-in-One	
Product Model	Version	Product Model	Version
DSS Express	V8.1.0	DSS4004-S2	V8.1.0
DSS Professional	V8.1.0	DSS7016D/DR-S2	V8.1.0

2 System Deployment

	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
OS	Windows	Windows	Windows	Linux	Linux
Form	Software	Software	Software	All-in-One	All-in-One
Type of Deployment	Single-server	Single-server	Distribute; Cascade	Single-server	Distribute
Hot Standby	x	x	√	x	√
Distribute	x	x	√	x	√
N+M	x	x	√	x	√
Cascade as Superior Level	x	x	√	x	x
Cascade as Subordinate Level	x	√	√	√	√
Multi-site as Current Site	x	x	√	x	x
Multi-site as Remote Site	x	√	√	x	x

3 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Performance						
Role&User	Roles	20	20	500	20	100
	Users	10 online users and 50 total users	10 online users and 50 total users	200 online users and 2,500 total users	10 online users and 50 total users	50 online users and 200 total users
	Roles per User	32	32	32	32	32
	DSS Agile VDP User	x	50 online users and 500 total users	500 online users and 5,000 total users	200 online users and 2,000 total users	500 online users and 5,000 total users
Recording Plan	General Recording Plans	64	256	3,000	256	3,000
	Motion Detection Recording Plans	64	256	3,000	256	3,000
	Video Retrieval Plans	x	x	3,000	x	3,000
	File Retrieval Plans	x	x	3,000	x	x
Event	Event Rules	256 event sources	256 event sources	3,000 event sources	256 alarm sources	3,000 event sources
Map	Hierarchies	8	8	8	8	8
	Maximum Size of Raster Map	15MB	15MB	15MB	15MB	15MB
	Number of Raster Maps	32	32	256	32	256

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Map	Number of Resources on GIS Map	x	x	Up to 300	x	Up to 300
	Number of Resources per Raster Map	Up to 300	Up to 300	Up to 300	Up to 300	Up to 300
Person and Vehicle Management	Persons	5,000	5,000	300,000	5,000	100,000
	Cards	x	10,000	600,000	10,000	200,000
	Faces	x	5,000	300,000	5,000	100,000
	Fingerprints	x	10,000	600,000	10,000	200,000
	Vehicles	5,000	5,000	50,000	5,000	20,000
Face and Vehicle Watch Lists	Total Faces	5,000	5,000	300,000	5,000	100,000
	Face Watch Lists	50	50	50	50	50
	Vehicle Watch Lists	8	8	32	8	16
	Faces per Face Watch List	5,000	5,000	50,000	5,000	50,000
	Vehicles per Vehicle Watch List	5,000	5,000	50,000	5,000	20,000
Intelligent Analysis	People Counting Groups	x	4	30	4	8
	People Counting Rules	x	20	20	20	20
Parking Lot	Vehicles	x	5,000	50,000	5,000	20,000
	Vehicle Groups	x	8	32	8	16
	Parking Lots	x	1	16	1	8
	Number of Entrances and Exits	x	4	60	6	16

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Parking Lot	Reserve Parking Space	x	x	10,000	x	x
	License Plates per Reserve Parking Space	x	x	10,000	x	x
	Parking Space Detectors per Parking Lot	x	x	500	x	x
	Parking Spacse per Parking Lot	x	x	1,500	x	x
	Parking Spacse Available Displays per Parking Lot	x	x	30	x	x
	Image Size per Layer	x	x	15 MB	x	x
	Resolution per layer	x	x	8100x8100	x	x
	Total Layers	x	x	128	x	x
	Layers per Parking Lot	x	x	16	x	x
	Resources per Layer (parking spaces not included)	x	x	600	x	x
Parking Spaces per Layer	x	x	1,000	x	x	
Access Control	Total Persons	x	5,000	30,000	5,000	20,000
	Access Permission Groups	x	50	500	50	200
	Door Groups	x	50	500	50	200
Video Intercom	Rooms	x	x	5,000	x	x
	Persons per Room	x	x	10	x	x
	VDP Accounts per Room	x	x	5	x	x

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Attendance Data	Attendance Terminals	x	x	64	x	x
	Attendance Periods	x	x	64	x	x
	Attendance Shifts	x	x	100	x	x
Synthesis	Bridges	x	x	5	x	x
	Incoming Trigger Event	x	x	100	x	x
	Incoming Trigger Source	x	x	500	x	x
Group Talk	Groups	x	x	30	x	x
	User in a Group	x	x	100	x	x
Data Storage	Event Records	2,000,000	2,000,000	20,000,000	2,000,000	5,000,000
	Face Recognition Records	2,000,000	2,000,000	20,000,000	2,000,000	5,000,000
	ANPR Records	2,000,000	2,000,000	5,000,000	2,000,000	5,000,000
	Metadata Records	2,000,000	2,000,000	5,000,000	2,000,000	5,000,000
	Access Control Records	x	2,000,000	5,000,000	2,000,000	5,000,000
	Video Intercom Records	x	2,000,000	5,000,000	2,000,000	5,000,000
	Historical Count Records	x	2,000,000	5,000,000	2,000,000	5,000,000
	In Area Statistical Records	x	2,000,000	5,000,000	2,000,000	5,000,000
	Heat Map Records	x	2,000,000	5,000,000	2,000,000	5,000,000
	Visitor Records	x	2,000,000	5,000,000	2,000,000	5,000,000

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2	
Data Storage	Entrance Records	x	2,000,000	5,000,000	2,000,000	5,000,000	
	Exit Records	x	2,000,000	5,000,000	2,000,000	5,000,000	
	Parking Records	x	x	5,000,000	x	x	
	Attendance Records	x	x	5,000,000	x	x	
	Lift Control Records	x	x	5,000,000	x	x	
	MPT Records	x	x	5,000,000	x	x	
	Operator Logs	2,000,000	2,000,000	5,000,000	2,000,000	5,000,000	
	Service Logs	2,000,000	2,000,000	5,000,000	2,000,000	5,000,000	
	Independent Data Deployment						
	Event Records	x	x	30,000,000	x	x	
	Face Recognition Records	x	x	30,000,000	x	x	
	ANPR Records	x	x	30,000,000	x	x	
	Video Metadata Records	x	x	30,000,000	x	x	
Notification Center Message	1,000	1,000	1,000	1,000	1,000		

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Single Server						
Total Devices	Devices	64 devices	512 devices	2,000 devices	1,000 devices	2,000 devices
	Auto-Registered Devices	32 devices	32 devices	1,000 devices	1,000 devices	1,000 devices
Video Devices and Channels	Video Devices and Channels	64 devices; 64 channels	256 devices; 256 channels	1,000 devices; 2,000 channels	256 devices; 256 channels	500 devices; 1,000 channels
	P2P Devices	32 devices	32 devices	32 devices	32 devices	32 devices
	Add devices by ONVIF	8 devices; 8 channels	256 devices; 256 channels	1,000 devices; 2,000 channels	256 devices; 256 channels	500 devices; 1,000 channels
	Face Recognition Devices and Channels	8 devices; 8 channels	8 devices; 8 channels	100 devices; 500 channels	8 devices; 32 channels	20 devices; 100 channels
	ANPR Channels	8 channels	8 channels	500 channels	32 channels	100 channels
	Video Metadata Channels	8 channels	8 channels	500 channels	32 channels	100 channels
	MPT Devices	x	x	100 devices	x	x
	EEC Devices	x	x	64 devices	x	x
ACS Devices	Access Control Devices and Lift Control Devices	x	64 devices; 64 channels	500 devices; 1,000 channels	64 devices; 64 channels	200 devices; 500 channels
	Access Control Devices	x	64 devices; 64 doors	500 devices; 1,000 doors	64 devices; 64 doors	200 devices; 500 doors
	Lift Control Devices	x	x	500 devices; 1,000 channels	x	x

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Single Server						
ACS Devices	Video Intercom Devices	x	256 devices	2,000 devices	1,000 devices	2,000 devices
Alarm Devices	Alarm Controllers	x	16 devices; 160 zones	100 device; 1,000 zones	16 devices; 64 zones	64 devices; 320 zones
	Emergency Phone Towers	x	x	1,000 devices; 2,000 channels	x	20 devices; 40 channels
Security Screening Devices	Security Screening Machine	x	x	20 devices	x	x
	Walk-through Metal Detector	x	x	60 devices	x	x
Parking Lot Devices	Parking Space Detectors	x	x	500 devices; 1,500 parking spaces	x	x
	Parking Space Available Displays	x	x	150 displays	x	x
Intelligent Analysis	People Counting Channels	x	16 channels	100 channels	16 channels	32channels
	Heat Map Channels	x	16 channels	100 channels	16 channels	32 channels
Multi-site	Sites	x	x	100 sites	x	x
	Total Devices in Multi-site	x	x	10,000 devices; 20,000 channels	x	x
Others	POS Channels	x	x	100 channels	x	x

Contents			DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Single Server							
Media Transmission Server	Incoming Bandwidth	Total Incoming Bandwidth per Server	200 Mbps	200 Mbps	600 Mbps	350 Mbps	600 Mbps
		Incoming Video per Server	200 Mbps	200 Mbps	600 Mbps	350 Mbps	600 Mbps
		Incoming Picture per Server	50 Mbps	50 Mbps	200 Mbps	50 Mbps	100 Mbps
	Outgoing Bandwidth	Total Outgoing Bandwidth per Server	200 Mbps	200 Mbps	600 Mbps	350 Mbps	600 Mbps
		Outgoing Video per Server	200 Mbps	200 Mbps	600 Mbps	350 Mbps	600 Mbps
		Outgoing Picture per Server	50 Mbps	50 Mbps	200 Mbps	50 Mbps	100 Mbps
	Storage Bandwidth	Total Storage Bandwidth per Server	100 Mbps	100 Mbps	600 Mbps	350 Mbps	600 Mbps
		Video Storage Bandwidth per Server	100 Mbps	100 Mbps	600 Mbps	350 Mbps	600 Mbps
		Picture Storage Bandwidth per Server	50 Mbps	50 Mbps	200 Mbps	50 Mbps	100 Mbps
Playback, Storage and Download	Prerecording Bandwidth for Alarm Recordings		50 Mbps	50 Mbps	400 Mbps	150Mbps	400Mbps
	Maximum Capacity per Storage Server(Local)		7 Days	2 TB	400 TB	100 TB	200 TB
	Maximum Capacity per Storage Server(IPSAN)		x	x	400 TB	100 TB	200 TB
Event	Storage of Events or Alarms without Pictures		60 per second	60 per second	300 per second	60 per second	240 per second
	Access Control Events		x	60 per second	300 per second	60 per second	240 per second

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Multiple Servers						
Number of sub servers per system		x	x	10 servers	x	5 servers
Total Devices	Devices	x	x	20,000 devices	x	6,000 devices
	Auto-Registered Devices	x	x	10,000 devices	x	5,000 devices
Video Devices and Channels	Video Devices and Channels	x	x	10,000 devices; 20,000 channels	x	2,500 devices; 5,000 channels
	P2P Devices	x	x	32 devices	x	32 devices
	Add devices by ONVIF	x	x	10,000 devices; 20,000 channels	x	2,500 devices; 5,000 channels
	ANPR Channels	x	x	5,000 channels	x	500 channels
	Face Recognition Channels	x	x	1,000 devices; 5,000 channels	x	500 channels
	Video Metadata Channels	x	x	5,000 channels	x	500 channels
	MPT Devices	x	x	300 devices	x	x
	EEC Devices	x	x	64 devices	x	x
ACS Devices	Access Control Devices and Lift Control Devices	x	x	1,500 devices; 3,000 channels	x	600 devices; 1500 channels
	Access Control Devices	x	x	1,500 devices; 3,000 doors	x	600 devices; 1,500 doors
	Lift Control Devices	x	x	1,500 devices; 3,000 channels	x	x
	Video Intercom Devices	x	x	2,000 devices	x	2,000 devices

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2	
Multiple Servers							
Alarm Devices	Alarm Controllers	x	x	500 devices; 5,000 zones	x	320 devices; 1,600 zones	
	Emergency Phone Towers	x	x	10,000 devices; 20,000 channels	x	100 devices; 200 channels	
Security Screening Devices	Security Screening Machine	x	x	200 devices	x	x	
	Walk-through Metal Detector	x	x	600 devices	x	x	
Parking Lot Devices	Parking Space Detectors	x	x	2,000 devices; 6,000 spaces	x	x	
	Parking Space Available Displays	x	x	600 displays	x	x	
Intelligent Analysis	People Counting Channels	x	x	300 channels	x	160 channels	
	Heat Map Channels	x	x	300 channels	x	160 channels	
Others	POS Channels	x	x	300 channels	x	x	
Media Transmission Server	Incoming Bandwidth	Total Incoming Bandwidth	x	x	6,000 Mbps	x	3,000 Mbps
		Incoming Video Bandwidth	x	x	6,000 Mbps	x	3,000 Mbps
		Incoming Picture Bandwidth	x	x	2,000 Mbps	x	500 Mbps
	Outgoing Bandwidth	Total Outgoing Bandwidth	x	x	6,000 Mbps	x	3,000 Mbps
		Outgoing Video Bandwidth	x	x	6,000 Mbps	x	3,000 Mbps
		Outgoing Picture Bandwidth	x	x	2,000 Mbps	x	500 Mbps

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2	
Multiple Servers							
Media Transmission Server	Storage Bandwidth	Total Storage Bandwidth	x	x	6,000 Mbps	x	3,000 Mbps
		Video Storage Bandwidth	x	x	6,000 Mbps	x	3,000 Mbps
		Picture Storage Bandwidth	x	x	2,000 Mbps	x	500 Mbps
Playback, Storage and Download	Prerecording Bandwidth for Alarm Recordings		x	x	4,000 Mbps	x	2000 Mbps
	Maximum Capacity per Storage Server(IPSAN)		x	x	4 PB	x	1 PB
Event	Storage of Events or Alarms without Pictures		x	x	600 per second	x	480 per second
	Access Control Events		x	x	600 per second	x	480 per second

①Picture Bandwidth: Including event/alarm pictures, face pictures, and vehicle pictures

4 Function

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Access Protocol	Onvif Protocol	√	√	√	√	√
	Dahua Private Protocol	√	√	√	√	√
Adding Mode	IP Address	√	√	√	√	√
	Domain Name	√	√	√	√	√
	Auto-Registered	√	√	√	√	√
	Discover Device	√	√	√	√	√
	Import Devices	×	√	√	√	√
Storage	NetDisk	×	×	√	√	√
	Server Disk	√	√	√	√	√
	Disk Group	×	×	√	×	√
	Device Storage	√	√	√	√	√
User Management	Domain User	×	×	√	×	√
	Forced Password Change at First Login	√	√	√	√	√
	Change Password Regularly	√	√	√	√	√
	Bind MAC Address	√	√	√	√	√

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Record Plan	Center Recording Storage Duration	√	√	√	√	√
	Motion Detection Recording Plan	√	√	√	√	√
	Video Retrieval	×	×	√	×	√
	File Retrieval	×	×	√	×	×
Backup and Restore	Manual Backup	√	√	√	√	√
	Auto Backup	√	√	√	√	√
Event	Link Video	√	√	√	√	√
	Trigger Snapshot	√	√	√	√	√
	Link PTZ	√	√	√	√	√
	Link Alarm Out	√	√	√	√	√
	Link Audio and Light	√	√	√	√	√
	Link A&C	×	√	√	√	√
	Link Video Wall	×	√	√	√	√
	Link HTTP URL Command	√	√	√	√	√
	Link E-mail	√	√	√	√	√
	Notify User	√	√	√	√	√

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Person and Vehicle Informaton	Personnel List	√	√	√	√	√
	Vehicle List	√	√	√	√	√
Synthesis	Event Sync	×	×	√	×	×
	Data Sync	×	×	√	×	×
Monitoring Center	Live View	√	√	√	√	√
	Face Recogniton	√	√	√	√	√
	ANPR	√	√	√	√	√
	VideoMetadata	√	√	√	√	√
	Video Wall	×	√(NVD Only)	√	√	√
	GIS Map	×	×	√	×	√
	Raster Map	√	√	√	√	√
	MPT Group Talk	×	×	√	×	×
Event Center	Event Statistics	×	×	√	×	×
	Real-time Events	√	√	√	√	√
	Events History	√	√	√	√	√
	Alarm Controller	×	×	√	×	×

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
DeepXplore	POS Records	×	×	√	×	×
	MPT Records	×	×	√	×	×
	Access Records	×	√	√	√	√
	Search for Faces Based on Face Image (Singel Device)	√	√	√	√	√
	Search for Faces Based on Face Image (Across Multiple devices)	×	×	√	×	√
	Human Body Search	√	√	√	√	√
	Non-motorized vehicle search	√	√	√	√	√
	Vehicle Search	√	√	√	√	√
	Record Trajectory	×	×	√	×	√
DeepXplore	Case Bank	×	×	√	×	×
Access Management	Advanced Rules of Access Control	×	√ (Anti-Passback only)	√	√ (Anti-Passback only)	√
	Lift Control	×	×	√	×	×
	Video Intercom	×	√	√	√	√
	Visit Appointment Registration	×	×	√	×	×
	Attendance	×	×	√	×	×

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Parking Lot Management	Entrance and Exit Monitoring	×	√	√	√	√
	Vehicle Search	×	√	√	√	√
	Visualized Parking Lot	×	×	√	×	×
	Reserved Parking Space	×	×	√	×	×
Intelligent Analysis	People Counting	×	√	√	√	√
	Heat Maps	×	√	√	√	√
	In Area No. Analysis	×	√	√	√	√
Maintenance Center	Overview	×	×	√	×	√
	Channel Status	×	×	√	×	√
	Device Status	×	×	√	×	√
	Server Status	×	×	√	×	√
	Fault	×	×	√	×	√
	Device Update	×	×	√	×	×
Log	Operator Log	√	√	√	√	√
	Device Log	×	√	√	√	√
	System Log	√	√	√	√	√
	Service Log Debug	√	√	√	√	√

ENABLING A SAFER SOCIETY AND SMARTER LIVING

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