



DSS V8 Products Comparison List



V8.0.4

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0 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	V8.0.4	DSS4004-S2	V8.0.4
DSS Professional	V8.0.4	DSS7016D/DR-S2	V8.0.4

1 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	√	√	√	√

2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Performance						
Role&User	Roles	20	20	100	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
	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 and Event Plan	Central Recording	Up to 64 video channels	Up to 256 video channels	Up to 3,000 video channels	Up to 256 video channels	Up to 3,000 video channels
	Event Rules	Up to 256 event sources	Up to 256 event sources	Up to 3,000 event sources	Up to 256 alarm sources	Up to 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	Up to 32	Up to 32	Up to 256	Up to 32	Up to 256
	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
Face and Vehicle Watch Lists	Face Watch Lists	50	50	50	50	50
	Total Faces	5,000	5,000	300,000	5,000	100,000
	Faces per Face Watch List	5,000	5,000	50,000	5,000	50,000
	Vehicle Watch Lists	8	8	32	8	16

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Intelligent Analysis	People Counting Groups	x	4	30	4	8
	People Counting Rules	x	20	20	20	20
Entrance and Exit	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 Exites	x	4	60	6	16
Personnel 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
Synthesis	Bridges	x	x	5 Bridges	x	x
	Incoming Trigger Event	x	x	100	x	x
	Incoming Trigger Source	x	x	500	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

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Data Storage	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
	Visitor Records	x	2,000,000	5,000,000	2,000,000	5,000,000
	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
	Attendance Records	x	x	5,000,000	x	x
	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
	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

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	32	32	32	32
	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
	ANPR Channels	8 (0 channel for entrance)	8 (4 channels for entrance)	500 (60 channels for entrance)	32 (6 channels for entrance)	100 (16 channels for entrance)
	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
	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
Security Screening Devices	Security Screening Machine	x	x	20	x	x
	Walk-through Metal Detector	x	x	60	x	x
Intelligent Analysis	People Counting Channels	x	16 channels	100 channels	16 channels	32 channels
	Heat Map Channels	x	16 channels	100 channels	16 channels	32 channels

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Single Server						
Others	Access Control	x	64 devices; 64 doors	500 devices; 1,000 doors	64 devices; 64 doors	200 devices; 500 doors
	Video Intercom	x	256 devices	2,000 devices	1,000 devices	2,000 devices
	Alarm Controller	x	16 devices;	100 devices	16 devices	64 devices
	POS Channels	x	x	100	x	x
Media Transmission Server	Video Input per Server	200Mbps	200Mbps	600Mbps	350Mbps	600Mbps
	Video Output per Server	200Mbps	200Mbps	600Mbps	350Mbps	600Mbps
Playback, Storage and Download	Storage Bandwidth per Server	100Mbps	100Mbps	600Mbps	150Mbps	600Mbps
	Maximum Capacity per Storage Server(Local)	7 Days	2TB	200TB	100TB	200TB
	Maximum Capacity per Storage Server(IPSAN)	x	x			
Picture	Picture Bandwidth①	50 Mbps	50 Mbps	200 Mbps	50 Mbps	100 Mbps
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
Multiple Servers						
Number of sub servers per system	Sub Server	x	x	10	x	5
Total Devices	Devices	x	x	20,000 devices	x	6,000 devices
	Auto-Registered Devices	x	x	10,000 devices	x	5,000 devices

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Multiple Servers						
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	x	32
	ANPR Channels	x	x	5,000 channels (60 channels for entrance)	x	500 channels (16 channels for entrance)
Intelligent Analysis	People Counting Channels	x	x	300 channels	x	160 channels
	Heat Map Channels	x	x	300 channels	x	160 channels
Video Devices and 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
Security Screening Devices	Security Screening Machine	x	x	200	x	x
	Walk-through Metal Detector	x	x	600	x	x
Others	Access Control	x	x	1,500 devices; 3,000 doors	x	600 devices; 1,500 doors
	Video Intercom	x	x	2,000 devices	x	2,000 devices
	Alarm Controller	x	x	500 devices	x	320 devices
	POS Channels	x	x	300	x	x

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Multiple Servers						
Picture	Picture Bandwidth①	x	x	2,000 Mbps	x	500 Mbps
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

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

3 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	×	×	√	×	√
User Management	Domain User	×	×	√	×	√
	Forced Password Change at First Login	√	√	√	√	√
	Change Password Regularly	√	√	√	√	√
	Bind MAC Address	√	√	√	√	√
Record Plan	Center Recording Storage Duration	√	√	√	√	√
	Retrieval Plan	×	×	√	×	√

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
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	√	√	√	√	√
	Alarm Protocol	√	√	√	√	√
	Handle Event	√	√	√	√	√
	Forward Event	√	√	√	√	√

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Personnel and Vehicle Informaton	Personnel List	√	√	√	√	√
	Vehicle List	√	√	√	√	√
Access Management	Advanced Rules of Access Control	×	√(Anti-Passback ONLY)	√	√(Anti-Passback ONLY)	√
	Video Intercom	×	√	√	√	√
	Visit Appointment Registration	×	×	√	×	×
	Attendance	×	×	√	×	×
Vehicle Entrance and Exit	Entrance and Exit Monitoring	×	√	√	√	√
	Vehicle Search	×	√	√	√	√
Intelligent Analysis	People Counting	×	√	√	√	√
	Heat Maps	×	√	√	√	√
	In Area No. Analysis	×	√	√	√	√
Synthesis	Event Sync	×	×	√	×	×
	Data Sync	×	×	√	×	×
Monitoring Center	Live View	√	√	√	√	√
	Face Recogniton	√	√	√	√	√
	ANPR	√	√	√	√	√
	VideoMetadata	√	√	√	√	√

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Monitoring Center	Video Wall	×	√	√	√	√
	GIS Map	×	×	√	×	√
	Raster Map	√	√	√	√	√
Event Center	Event Statistics	×	×	√	×	×
	Real-time Events	√	√	√	√	√
	Events History	√	√	√	√	√
DeepXplore	POS 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	×	×	√	×	√
	Case Bank	×	×	√	×	×

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Maintenance Center	Overview	×	×	√	×	√
	Channel Status	×	×	√	×	√
	Device Status	×	×	√	×	√
	Server Status	×	×	√	×	√
	Fault	×	×	√	×	√
Log	Operator Log	√	√	√	√	√
	Device Log	×	√	√	√	√
	System Log	√	√	√	√	√
	Service Log Debug	√	√	√	√	√

4 Menu

Classification	First Level Menu	Second Level Menu	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Basic Configuration	Device	Add Device	√	√	√	√	√
		Device Configuration	√	√	√	√	√
	User	Role	√	√	√	√	√
		User	√	√	√	√	√
	Storage	Net Disk	×	×	√	√	√
		Server Disk	√	√	√	√	√
		Disk Group	×	×	√	×	√
Application Configuration	Storage Plan	Recording Plan	√	√	√	√	√
		Recording Retrieval	×	×	√	×	√
	Event	Event Plan	√	√	√	√	√
	Map	Map	√	√	√	√	√
	Personnel and Vehicle Informaton	Personnel List	√	√	√	√	√
		Vehicle List	√	√	√	√	√
	Watch List	Face Watch List	√	√	√	√	√
		Vehicle Watch List	√	√	√	√	√
	Access Control	Door Group	×	√	√	√	√
		Access Permission Group	×	√	√	√	√
		Super Password	×	√	√	√	√
		Advanced Rules	×	√(Anti-Passback ONLY)	√	√(Anti-Passback ONLY)	√

Classification	First Level Menu	Second Level Menu	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Application Configuration	Video Intercom	Call Management	×	√	√	√	√
		Residence Configuration	×	√	√	√	√
		Contacts Synchronization	×	√	√	√	√
		Private Password	×	√	√	√	√
		App User	×	√	√	√	√
	Attendance	Attendance Period	×	×	√	×	×
		Attendance Holiday Schedule	×	×	√	×	×
		Attendance Shift	×	×	√	×	×
		Shift Management	×	×	√	×	×
		Attendance Configuration	×	×	√	×	×
	Visitor		×	√	√	√	√
	Entrance and Exit	Parking Lot	×	√	√	√	√
		Vehicle Group	×	√	√	√	√
	Intelligent Analysis		×	√	√	√	√
System Configuration	System Deployment	Distributed Configuration	×	×	√	×	√
		Cascade Configuration	×	×	√	×	×
	License		√	√	√	×	×
	Synthesis	Event Sync	×	×	√	×	×
		Data Sync	×	×	√	×	×

Classification	First Level Menu	Second Level Menu	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Overview	Overview		√	√	√	√	√
Management	Download Center		√	√	√	√	√
	Local Picture		√	√	√	√	√
	Local Recording		√	√	√	√	√
	Local Settings		√	√	√	√	√
	Log	Operator Log	√	√	√	√	√
		Device Log	×	√	√	√	√
		System Log	√	√	√	√	√
		Service Log Debug	√	√	√	√	√
Applications	Monitoring Center	Live View	√	√	√	√	√
		Video Wall	×	√	√	√	√
		Map	√	√	√	√	√
	Event Center	Real-time Events	√	√	√	√	√
		Events History	√	√	√	√	√
		Event Statistics	×	×	√	×	×
		Alarm Controller	×	×	√	×	×
	DeepXplore	DeepXplore	√	√	√	√	√
		Case Bank	×	×	√	×	×

Classification	First Level Menu	Second Level Menu	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Applications	Maintenance Center	Overview	×	×	√	×	√
		Channel Status	×	×	√	×	√
		Device Status	×	×	√	×	√
		Server Status	×	×	√	×	√
		Fault	×	×	√	×	√
		Device Update	×	×	√	×	×
	Access Management	Access Control	×	√	√	√	√
		Video Intercom	×	√	√	√	√
		Attendance	×	×	√	×	×
		Visitor	×	√	√	√	√
	Intelligent Analysis	People Counting	×	√	√	√	√
		Heat Maps	×	√	√	√	√
		In Area No. Analysis	×	√	√	√	√
	Vehicle Entrance and Exit	Entrance and Exit Monitoring	×	√	√	√	√
		Vehicle Search	×	√	√	√	√

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