



DSS V8 Products Comparison List



V8.0.2

ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

0 Basic Information

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

Product Model	Version	Firmware
DSS Express	V8.0.2	General_DSS-Express_win32_IS_V8.000.0000002.0.R.20210506.exe
DSS Professional	V8.0.2	General_DSS-Professional_Win64_IS_V8.000.0000002.0.R.20210506.exe
DSS4004-S2	V8.0.2	General_OverseasDSS4004S2_Eng_Basic_V8.000.0000002.0.R.20210728.tar.gz
DSS7016D/DR-S2	V8.0.2	General_OverseasDSS7016S2_Eng_Basic_V8.000.0000002.0.R.20210728.tar.gz

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
	Users for VDP Mobile APP	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

2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
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
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
	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
	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

2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
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
Single Server						
Total Devices	Devices	64 devices	512 devices	2,000 devices	1,000 devices	2,000 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 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
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; 64 zones	100 devices; 500 zones	16 devices; 64 zones	64 devices; 320 zones
	POS Channels	x	x	100	x	x

2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Single Server						
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 Storage	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
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)

2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Multiple Servers						
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
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; 2,500 zones	x	320 devices; 1,600 zones
	POS Channels	x	x	300	x	x
Picture	Picture Storage	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

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 Register	√	√	√	√	√
	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	×	×	√	×	√

3 Function

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 A&C	×	√	√	√	√
	Link Video Wall	×	√	√	√	√
	Link E-mail	√	√	√	√	√
	Notify User	√	√	√	√	√
	Handle Event	√	√	√	√	√
	Forward Event	√	√	√	√	√
Personnel and Vehicle Informaton	Personnel List	√	√	√	√	√
	Vehicle List	√	√	√	√	√

3 Function

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D/DR-S2
Access Management	Advanced door rules	×	×	√	×	√
	Video Intercom	×	√	√	√	√
	Visit Appointment Registration	×	×	√	×	×
	Attendance	×	×	√	×	×
Vehicle Entrance and Exit	Entrance and Exit Monitoring	×	√	√	√	√
	Vehicle Search	×	√	√	√	√
Monitoring Center	Live View	√	√	√	√	√
	Face Recogniton	√	√	√	√	√
	ANPR	√	√	√	√	√
	VideoMetadata	√	√	√	√	√
	Video Wall	×	√	√	√	√
	GIS Map	×	×	√	×	√
	Raster Map	√	√	√	√	√
Event Center	Event Statistics	×	×	√	×	×
	Real-time Events	√	√	√	√	√
	Events History	√	√	√	√	√

3 Function

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

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	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	×	×	√	×	√

4 Menu

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	×	×	√	×	×
	Visitor		×	√	√	√	√
	Entrance and Exit	Parking Lot	×	√	√	√	√
		Vehicle Group	×	√	√	√	√
	System Configuration	System Deployment	Distributed Configuration	×	×	√	×
Cascade Configuration			×	×	√	×	×
License			√	√	√	×	×
System Parameters			√	√	√	√	√
Backup and Restore			√	√	√	√	√

4 Menu

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		√	√	√	√	√
Help		√	√	√	√	√		
Applications	Monitoring Center	Live View	√	√	√	√	√	
		Video Wall	×	√	√	√	√	
		Map	√	√	√	√	√	
	Event Center	Real-time Events		√	√	√	√	√
		Events History		√	√	√	√	√
		Event Statistics		×	×	√	×	×
	DeepXplore	DeepXplore		√	√	√	√	√
Case Bank			×	×	√	×	×	

4 Menu

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	×	×	√	×	√
	Access Management	Access Control	×	√	√	√	√
		Video Intercom	×	√	√	√	√
		Attendance	×	×	√	×	×
		Visitor	×	√	√	√	√
	Vehicle Entrance and Exit	Entrance and Exit Monitoring	×	√	√	√	√
		Vehicle Search	×	√	√	√	√

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ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

Address: No.1199 Bin'an Road, Binjiang District, Hangzhou, P. R. China | Website: www.dahuasecurity.com | Postcode: 310053

Email: overseas@dahuatech.com | Fax: +86-571-87688815 | Tel: +86-571-87688883