



DSS Products Comparison between DSS Express and DSS Professional



V8.0.4

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0 Basic Information

Product Model	Version	Firmware
DSS Express	V8.0.4	General_DSS-Express_win32_IS_V8.000.0000004.0.R.20220113.exe
DSS Professional	V8.0.4	General_DSS-Professional_Win64_IS_V8.000.0000004.0.R.20220113.exe

1 System Deployment

Contents	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
OS	Windows	Windows	Windows
Form	Software	Software	Software
Type of Deployment	Single-server	Single-server	Distribute; Cascade
Hot Standby	x	x	√
Distribute	x	x	√
N+M	x	x	√
Cascade As Superior Level	x	x	√
Cascade As Subordinate Level	x	√	√

2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
Performance				
Role&User	Roles	20	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
	DSS Agile VDP User	x	50 online users and 500 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
	Event Rules	Up to 256 event sources	Up to 256 event sources	Up to 3,000 event sources
Map	Hierarchies	8	8	8
	Maximum Size of Raster Map	15MB	15MB	15MB
	Number of Raster Maps	Up to 32	Up to 32	Up to 256
	Number of Resources on GIS Map	x	x	Up to 300
	Number of Resources per Raster Map	Up to 300	Up to 300	Up to 300
Face and Vehicle Watch Lists	Face Watch Lists	50	50	50
	Total Faces	5,000	5,000	300,000
	Faces per Face Watch List	5,000	5,000	50,000
	Vehicle Watch Lists	8	8	32

2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
Intelligent Analysis	People Counting Groups	x	4	30
	People Counting Rules	x	20	20
Entrance and Exit	Vehicles	x	5,000	50,000
	Vehicle Groups	x	8	32
	Parking Lots	x	1	16
	Number of Entrances and Exites	x	4	60
Personnel and Vehicle Management	Persons	5,000	5,000	300,000
	Cards	x	10,000	600,000
	Faces	x	5,000	300,000
	Fingerprints	x	10,000	600,000
	Vehicles	5,000	5,000	50,000
Synthesis	Bridges	x	x	5 Bridges
	Incoming Trigger Event	x	x	100
	Incoming Trigger Source	x	x	500

2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	
Data Storage	Event Records	2,000,000	2,000,000	20,000,000	
	Face Recognition Records	2,000,000	2,000,000	20,000,000	
	ANPR Records	2,000,000	2,000,000	5,000,000	
	Metadata Records	2,000,000	2,000,000	5,000,000	
	Access Control Records	x	2,000,000	5,000,000	
	Video Intercom Records	x	2,000,000	5,000,000	
	Visitor Records	x	2,000,000	5,000,000	
	Entrance Records	x	2,000,000	5,000,000	
	Exit Records	x	2,000,000	5,000,000	
	Attendance Records	x	x	5,000,000	
	Historical Count Records	x	2,000,000	5,000,000	
	In Area Statistical Records	x	2,000,000	5,000,000	
	Heat Map Records	x	2,000,000	5,000,000	
	MPT Records	x	x	5,000,000	
	Operator Logs	2,000,000	2,000,000	5,000,000	
	Service Logs	2,000,000	2,000,000	5,000,000	
	Independent Data Deployment				
		Event Records	x	x	30,000,000
		Face Recognition Records	x	x	30,000,000
		ANPR Records	x	x	30,000,000

	Video Metadata Records	x	x	30,000,000
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2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
Single Server				
Total Devices	Devices	64 devices	512 devices	2,000 devices
	Auto-Registered Devices	32 devices	32 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
	P2P Devices	32	32	32
	Add devices by ONVIF	8 devices; 8 channels	256 devices; 256 channels	1,000 devices; 2,000 channels
	ANPR Channels	8 (0 channels for entrance)	8 (4 channels for entrance)	500 (60 channels for entrance)
	Face Recognition Channels	8 devices; 8 channels	8 devices; 8 channels	100 devices; 500 channels
	Video Metadata Channels	8 devices; 8 channels	8 devices; 8 channels	500 channels
	MPT Devices	x	x	100 devices
	EEC Devices	x	x	64 devices
Security Screening Devices	Security Screening Machine	x	x	20
	Walk-through Metal Detector	x	x	60
Intelligent Analysis	People Counting Channels	x	16 channels	100 channels
	Heat Map Channels	x	16 channels	100 channels
Others	Access Control	x	64 devices; 64 doors	500 devices; 1,000 doors
	Video Intercom	x	256 devices	2,000 devices

	Alarm Controller	x	16 devices	100 devices
	POS Channels	x	x	100

2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
Single Server				
Media Transmission Server	Video Input per Server	200Mbps	200Mbps	600Mbps
	Video Output per Server	200Mbps	200Mbps	600Mbps
Playback, Storage and Download	Storage Bandwidth per Server	100Mbps	100Mbps	600Mbps
	Maximum Capacity per Storage Server(Local)	7 Days	2TB	200TB
	Maximum Capacity per Storage Server(IPSAN)	x	x	
Picture	Picture Bandwidth *Including event/alarm pictures, face pictures, and vehicle pictures	50 Mbps	50 Mbps	200 Mbps
Event	Storage of Events or Alarms without Pictures	60 per second	60 per second	300 per second
	Access Control Events	x	60 per second	300 per second
Multiple Servers				
Number of sub servers per system	Sub Server	x	x	10
Total Devices	Devices	x	x	20,000 devices
	Auto-Registered Devices	x	x	10,000 devices

Video Devices and Channels	Video Devices and Channels	x	x	10,000 devices; 20,000 channels
	P2P Devices	x	x	32
	ANPR Channels	x	x	5,000 channels (60 channels for entrance)

2 Performance

Contents		DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
Multiple Servers				
Intelligent Analysis	People Counting Channels	x	x	300 channels
	Heat Map Channels	x	x	300 channels
Video Devices and Channels	Face Recognition Channels	x	x	1,000 devices; 5,000 channels
	Video Metadata Channels	x	x	5,000 channels
	MPT Devices	x	x	300 devices
	EEC Devices	x	x	64 devices
Security Screening Devices	Security Screening Machine	x	x	200
	Walk-through Metal Detector	x	x	600
Others	Access Control	x	x	1,500 devices; 3,000 doors
	Video Intercom	x	x	2,000 devices
	Alarm Controller	x	x	500 devices



DSS PRODUCTS COMPARISON

	POS Channels	x	x	300
Picture	Picture Bandwidth *Including event/alarm pictures, face pictures, and vehicle pictures	x	x	2,000 Mbps
Event	Storage of Events or Alarms without Pictures	x	x	600 per second
	Access Control Events	x	x	600 per second

3 Function

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
Access Protocol	Onvif Protocol	√	√	√
	Dahua Private Protocol	√	√	√
Adding Mode	IP Address	√	√	√
	Domin Name	√	√	√
	Auto Register	√	√	√
	Discover Device	√	√	√
	Import Devices	×	√	√
Storage	NetDisk	×	×	√
	Server Disk	√	√	√
	Disk Group	×	×	√
User Management	Domin 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
Backup and Restore	Manual Backup	√	√	√
	Auto Backup	√	√	√
Event	Link Video	√	√	√
	Trigger Snapshot	√	√	√
	Link PTZ	√	√	√
	Link Alarm Out	√	√	√
	Link A&C	×	√	√
	Link Video Wall	×	√	√
	Link HTTP URL Command	√	√	√
	Link E-mail	√	√	√
	Notify User	√	√	√
	Alarm Protocol	√	√	√
	Handle Event	√	√	√
	Forward Event	√	√	√
Personnel and Vehicle	Personnel List	√	√	√

Informaton	Vehicle List	√	√	√
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3 Function

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
Monitoring Center	Live View	√	√	√
	Playback	√	√	√
	Video Wall	×	√(Only NVD)	√
	GIS Map	×	×	√
	Raster Map	√	√	√
Event Center	Event Statistics	×	×	√
	Real-time Events	√	√	√
	Events History	√	√	√
	Alarm Controller	×	×	√
DeepXplore	POS Records	×	×	√
	Access Control 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	√	√	√
	MPT Records	×	×	√

	Record Trajectory	x	x	√
	Case Bank	x	x	√

3 Function

Classification	Function	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
Maintenance Center	Overview	×	×	√
	Channel Status	×	×	√
	Device Status	×	×	√
	Server Status	×	×	√
	Fault	×	×	√
	Device Update	×	×	√
Access Management	Advanced Rules of Access Control	×	√(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	×	×	√
Log	Operator Log	√	√	√
	Device Log	×	√	√
	System Log	√	√	√

Quick Command		√	√	√
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4 Menu

Classification	First Level Menu	Second Level Menu	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
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	×	√	√

	ACCESS CONTROL	Public Password	×	√	√
		Advanced Rules	×	√(Anti-Passback ONLY)	√

4 Menu

Classification	First Level Menu	Second Level Menu	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
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		×	√	√

4 Menu

Classification	First Level Menu	Second Level Menu	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	
System Configuration	System Deployment	Distributed Configuration	×	×	√	
		Cascade Configuration	×	×	√	
	License		√	√	√	
	System Parameters		√	√	√	
	Backup and Restore		√	√	√	
	Synthesis	Event Sync	×	×	√	
Data Sync		×	×	√		
Overview	Overview		√	√	√	
Management	Download Center		√	√	√	
	Local Picture		√	√	√	
	Local Recording		√	√	√	
	Local Settings		√	√	√	
	Log	Operator Log		√	√	√
		Device Log		×	√	√
		System Log		√	√	√
		Service Log Debug		√	√	√
Help		√	√	√		
Quick Command		√	√	√		

4 Menu

Classification	First Level Menu	Second Level Menu	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
Applications	Monitoring Center	Live View	√	√	√
		Video Wall	×	√	√
		Map	√	√	√
	Event Center	Real-time Events	√	√	√
		Events History	√	√	√
		Event Statistics	×	×	√
		Alarm Controller	×	×	√
	DeepXplore	DeepXplore	√	√	√
		Case Bank	×	×	√
	Maintenance Center	Overview	×	×	√
		Channel Status	×	×	√
		Device Status	×	×	√
		Server Status	×	×	√
		Fault	×	×	√
		Device Update	×	×	√

4 Menu

Classification	First Level Menu	Second Level Menu	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional
Applications	Access Management	Access Control	×	√	√
		Video Intercom	×	√	√
		Attendance	×	×	√
		Visitor	×	√	√
	Vehicle Entrance and Exit	Entrance and Exit Monitoring	×	√	√
		Vehicle Search	×	√	√
	Intelligent Analysis	People Counting	×	√	√
		Heat Maps	×	√	√
		In Area No. Analysis	×	√	√

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