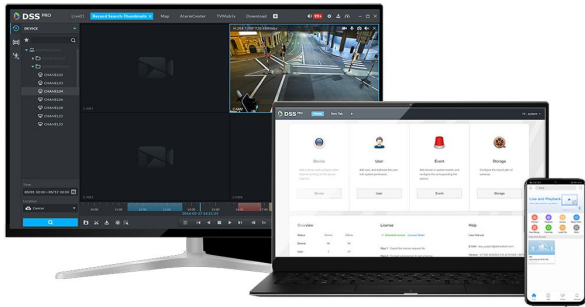


SG-DSS Pro

Pro Video Surveillance Management Software



DSS Professional (Pro) is an intelligent, scalable video management platform designed to enhance security operations. With a client-server architecture, it offers centralized control, efficient information sharing, and seamless device integration. DSS Pro compatibility with all ONVIF IP-enabled devices: network cameras, NVRs, DVRs, storage, video intercom devices, and access control devices.

Core features include user management, device and alarm control, and central storage. DSS Pro also supports advanced functions such as video wall management, Event&Alarm management, map configuration, access control, video intercom, smart analytics like face and object detection, Role and User Management (add/edit/delete user permissions and roles). Additional modules like business intelligence and traffic monitoring further extend its capabilities.

Functions

- Live View** DSS Pro offers a user-friendly live view with customizable layouts, allowing you to prioritize important areas. You can remotely control devices to talk through cameras or unlock access points. In emergencies, manual recording is just one click away to save critical footage.
- Playback** The playback feature lets you view recorded videos from servers and devices in multiple windows. You can fast-forward up to 64x, slow down to 1/64x, add tags, and lock important clips to prevent overwriting. Filters help you quickly find specific video types or targets across areas.
- Video Wall** Video Wall merges multiple screens into a single, flexible display. Customize layouts, mix live and recorded feeds, and schedule specific channels to play at set times or in a loop.
- E-Map** Map Function lets you monitor devices and alarms by location. Triggered devices flash red for instant identification, and submaps can be added for detailed area views like public squares.
- Group Talk** Real-time MPT device locations are shown on the map, enabling dispatchers to quickly deploy officers to incidents. They can also initiate group talks to guide officers efficiently during tasks.
- DeepXplore** Powered by AI, you can quickly search targets, access their records, track their movements, and organize all information into a case report.

System Requirement

	Server		PC Client	
	Recommended	Minimum	Recommended	Minimum
CPU	Intel Xeon Silver 4114 @2.2 GHz 10 Core Processor	Intel Xeon E-2224 @3.4 GHz, 8M cache	Intel® Core i7-11700 @2.50 GHz	Intel® Core i5-9500 @3.00 GHz
Memory	16 GB	8 GB	16 GB	
System Disk	1TB 7200 RPM SATA 6 Gbps 512n 2.5 in Hot-plug Hard Drive	1 TB 7200 RPM SATA Entry 3.5 in Cabled Hard Drive	-	
Storage Disk	7200 RPM Enterprise Class HDD 1 TB, 500 GB free space for DSS		200 GB free space for DSS Client	100 GB free space for DSS Client
Graphics Card	-		NVIDIA® GeForce® RTX 3060	Intel® UHD Graphics 630
Ethernet Port	4 Ports@1000 Mbps	2 Ports@1000 Mbps	1000 Mbps	
Operating System	Microsoft® Windows Server 2019 Standard (64-bit) Microsoft® Windows 10 20H2 Pro (64-bit) Microsoft® Windows 11 21H2 Pro (64-bit)		Microsoft® Windows 10 20H2 Pro (32-bit) Microsoft® Windows 10 20H2 Pro (64-bit) Microsoft® Windows 11 21H2 Pro (64-bit) Microsoft® Windows Server 2019 Standard (64-bit)	

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Server Specification

Parameter		Single Server	Multiple Servers
Number of sub servers per system	Sub Servers	-	10 servers
Total Devices	Devices ^②	2,000 devices	20,000 devices
	Auto-Registered Devices	1,000 devices	10,000 devices
Video Devices and Channels	Video Devices and Channels ^①	1,000 devices; 2,000 channels	10,000 devices; 20,000 channels
	Devices Added by Hikvision Protocol	500 devices; 2,000 channels	5,000 devices; 20,000 channels
	P2P Devices	32 devices	
	Devices Added by ONVIF Protocol	1,000 devices; 2,000 channels	10,000 devices; 20,000 channels
Video Devices and Channels	ANPR Channels	500 channels	5,000 channels
	Face Recognition Devices and Channels	100 devices; 500 channels	1,000 devices; 5,000 channels
	Video Metadata Channels	500 channels	5,000 channels
	MPT Devices	100 devices	300 devices
	EEC Devices	64 devices	
	MDVR/MNVR	100 devices; 800 channels	1,000 devices; 8,000 channels
Access Control Devices	Access Control Devices and Lift Control Devices	500 devices; 1,000 channels	1,500 devices; 3,000 channels
	Access Control Devices	500 devices; 1,000 doors	1,500 devices; 3,000 doors
	Lift Control Devices	500 devices; 1,000 channels	1,500 devices; 3,000 channels
	VDP	2,000 devices	
Alarm Devices	Alarm Controllers	100 devices; 1,000 zones	500 devices; 5,000 zones
	Emergency Phone Towers	1,000 devices; 2,000 channels	10,000 devices; 20,000 channels
	EAS Alarm Channels	2,000 channels	20,000 channels
Security Screening Devices	Security Screening Machines	20 devices	200 devices
	Walk-through Metal Detectors	60 devices	600 devices
Radars	Radars	20 devices	
Parking Lot Devices	Parking Space Detectors	500 devices; 1,500 parking spaces	2,000 devices; 6,000 parking spaces
	Parking Space Available Displays	150 displays	600 displays
Intelligent Analysis	People Counting Channels	100 channels	300 channels
	Heat Map Channels	100 channels	300 channels
Multi-site	Sites	100 sites	
	Devices per Site	10,000 devices; 20,000 channels	
	Total Devices	10,000 devices; 20,000 channels	
Others	POS Channels	100 channels	300 channels
Media Transmission Server	Total Incoming Bandwidth	600 Mbps	6,000 Mbps
	Incoming Video Bandwidth	600 Mbps	6,000 Mbps
	Incoming Picture Bandwidth	200 Mbps	2,000 Mbps

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Pro Video Surveillance Management Software

Server Specifications

Media Transmission Server	Total Outgoing Bandwidth	600 Mbps	6,000 Mbps
	Outgoing Video Bandwidth	600 Mbps	6,000 Mbps
	Outgoing Picture Bandwidth	200 Mbps	2,000 Mbps
	Total Storage Bandwidth	600 Mbps	6,000 Mbps
	Video Storage Bandwidth	600 Mbps	6,000 Mbps
	Picture Storage Bandwidth	200 Mbps	2,000 Mbps
Playback, Storage and Download	Prerecording Bandwidth for Alarm Recordings	400 Mbps	4,000 Mbps
	Maximum Capacity of Central Storage (IPSAN)	400 TB	4 PB
Event ^④	Total Events ^⑤	300 per second	600 per second
	Storage of Events or Alarms without Pictures ^⑥	300 per second	600 per second
	Alarms with Snapshots (Stored on Devices)	300 per second	600 per second
	Access Control Events	300 per second	600 per second
	Number of Combined Events	100 per second	

Function Lists

Live View

- Display device tree; show/hide offline devices.
- Display device IP address or device name on the device tree
- View real-time video
- Apply a layout (1, 4, 6, 8, 9, 13, 16, 20, 25, 36, 64) or a customized layout
- Control PTZ cameras
- Set manual recording (PC or central storage)
- Take Snapshots
- Perform instant playback and digital zoom
- Apply fisheye dewarping
- Control smart tracking for fisheye, speed dome, and panoramic cameras
- Audio talk
- Decode to a video wall
- Turn on/off the audio in live view
- Set Region of Interest: divide one window into 4 or 6 parts, one shows whole image and others show details
- Display map in Live View and save current split as a view
- Switch to Playback mode

Playback

- Playback recording from front-end devices or from central storage
- Apply video filters: normal, motion, alarm, video loss, video tampering
- Sync play (Maximum 64 channel)
- Reverse playback; Supports up to 64x fast play and 1/64x slow play
- Frame-by-frame Playback
- Lock or mark important recording segments for central storage
- Supports .avi, .dav, .flv, .mp4, and .asf video output
- Decode to a video wall
- Apply Fisheye dewarping
- Take a snapshot
- Switch to the Live View
- Apply a layout (1, 4, 6, 8, 9, 13, 16, 20, 25, 36) or a customized layout
- Adjust the video image and the display mode (full screen or original)

Event

- View real-time and historical alarm information
- View detailed alarm information (live video, record and pictures from related camera alarm source location on the map)
- Acknowledge alarms
- Arm control for alarm source
- Forward alarms to relevant users
- Manually send alarm email to a relevant user
- Search by alarm source, alarm time, status, handle user, and priority
- Search alarm events and export the alarm list

Video Wall

- Manually/Automatically decode real-time video to a video wall
- Manage video wall split
- Change the video channel stream type
- Add box, turn screen on/off, and deliver video stream to control client
- Tour the video channel in one screen
- Set running task on the timeline for schedule plan
- Loop different tasks and set duration time for tour plan
- Supports NKB1000 keyboard to control the video wall

Map

- View live video or playback video on the map
- Calculate area or length of a GIS map
- Supports visible range and initial angle (for PTZ cameras only)
- Displays visible alarm trigger on the map

Face Recognition

- Real time detection in Live view
- Search by Filter, Image

ANPR

- Real-time video and plate snapshots.
- Search by Plate no., Vehicle Brand and Color

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Mobile Specification

	iOS	Android
Model	iPhone 5S or later	-
RAM	-	2 GB and above
Resolution	-	1280 × 720 or higher
Operating System	iOS 10.0 or later	Android 5.0 or later
Language	Arabic, English (United States), French, Russian, Simplified Chinese	

Mobile Client Function Lists

- Live View** With DSS Agile, you can monitor up to 16 real-time video channels remotely, choose from 3 stream types based on your network, and use PTZ control for full coverage. Capture snapshots, record events, or send voice messages for deterrence—all from your phone
- Playback** DSS Agile lets you play videos at speeds from 1/8X to 8X and manually record key moments to save directly to your phone.
- Access Control** DSS Agile lets you remotely manage access control—such as unlocking doors for verified users or locking doors to block access.
- Target Tracking** DSS Agile allows you to locate targets by searching face records by time, uploading a face image, or filtering capture records by features of people, vehicles, or non-motor vehicles.
- Event** You can receive and process various types of alarms. You can also receive alarms when DSS Agile is not running with a subscription button.

System Architecture

