

Digital Surveillance System

DSS Pro V8.1 Video Management System



- Integrates All Management Functions into One Client
- · Allows Device Initialization and Management
- · Live Video Playback from Edge Device
- Supports Access Control and Video Intercom Integration
- · Configure Video Wall Layout and Scheme
- · Offers Fisheye Camera Dewarping on Live View

System Overview

DSS Pro is a comprehensive and expandable Dahua VMS for flexible, scalable, reliable and powerful central management. With client-server architecture, DSS Pro provides central management, information sharing,

convenient connections, and multi-service cooperation. The software provides basic functions such as user permissions, device and alarm management, and central storage. DSS Pro also provides advanced features of video wall, map configuration, access control features, video intercom, and analytic functions such as face/object detection. It also integrates add-ons such as business intelligence and traffic surveillance.

Functions

Compatibility

DSS Pro is compatible with all Dahua IP-enabled devices: network cameras, NVRs, DVRs, video intercom devices, and access control devices.

Fisheye Camera Support

The software features full support for Dahua Fisheye cameras. The software supports options for the Fisheye camera installation and offers dewarp modes. Dewarping solves the problem of distortion in the circular panoramic view in both live or playback modes.

Access Control and Video Intercom

DSS Pro offers full support and integration for access control and video intercom products to support a complete security and surveillance system. The server monitors door status and events, manages access rights, and support advanced rules management. In addition to access controls, the server supports two-way communication between intercom and control center

Video Wall

The software offers settings to configure all aspects of a video wall application including layout, live preview, scheme configuration, and tour setup. In addition, the application supports video wall splicing and roaming.

Management Operations

DSS Pro manages the devices and users accounts for an entire organization. Operators can assign different camera ranges, active use periods, and business roles for each user. The server also supports different schemes for various events, including IVS, to record and view all event history information.

System Features

Business Configuration

Device Management

- · Bind cameras for alarm configuration
- · Initialize Dahua devices
- Add devices via auto search, IP, IP Segment, Domain, Auto-register
- Manage Dahua devices
- Add third-party devices via ONVIF
- · Modify Dahua device IP address and password
- Import Intercom Devices

Role and User Management¹

- · Manage user permissions and roles for devices and control
- Assign user to defined roles
- Assign appropriate permissions to specific users
- Set user PTZ permissions
- Lock users
- Import domain user and assign roles

Event Management

- Set alarm type: device, video channel, alarm input, IVS alarm, thermal, vehicle block list
- Set alarm scheme: all day, weekday, weekend, or custom template
- · Set alarm priority: Low, Medium, High
- Link recordings, snapshots, live video, alarm output, PTZ actions, or e-mail

Storage

- Set edge storage and central storage
- Extend central storage via iSCSI
- Create recording plan by time template: all day template, weekday template, weekend
- template, and custom template
- Backup video from edge storage devices (EVS, NVR, DVR, etc.) by schedule
- Backup video from MDVR, NVR, EVS, DVR via Wi-Fi
- Allocate disks and cameras to different groups to main disk quotas

Note: Video and image recordings cannot be on the same physical hard drive. Separate physical drives are required for video and image storage. System hard drives are only for DSS software installation.

Мар

- Use Google online or offline maps, or raster maps
- Supports 8-level sub-map
- Configure camera, alarm input, and intelligent channel, and sub-map hot spots.

Video Wall

- Display/Hide the screen ID
- Supports screen combinations
- Bind the decode channel with the corresponding screen

Vehicle Block List

- Manage vehicle block lists
- Arm and disarm vehicle block lists
- Import and export vehicle block lists

Video Intercom

- Manage communication between intercom devices via SIP protocol or command
- center
- Release text information to VTH, release address book to VTO
- View, delete, and freeze DSS Mobile users

System Maintenance

Backup and Restore

- · Automatically backup system database (daily, weekly monthly)
- Manually backup system database
- Restore system database from a server or a local file

System Dashboard

- View overview and detailed system information
- Check CPU, storage, and bandwidth running status
- View device health report for service, device, and user online information
- View event information statistics: total and processed events
- View video and alarm channel source information

Logs

- View system, administrator, and client logs
- · Search and export logs

Other Functions

- Support HTTPS
- Set device time calibration
- Set log and alarm information
- A remote client login to a DSS server is supported only via an IP address. DSS does not support remote login via DDNS.

Service Management

- Delete the subserver
- Release text information to VTH, release address book to VTO
- View, delete, and freeze DSS Mobile users

Control Client

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 common 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
- Supports NKB1000 keyboard to control cameras in the Live View
- Adjust the video image and the display mode (full screen or original)
- Electronic focus

Playback

- Playback recording from front-end devices or from central storage
- · Apply video filters: normal, motion, alarm, video loss, video tampering
- Sync play
- 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 common 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
- 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.

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- סוים. 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

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- Other Functions
 Decode GPU
- Decode GPU
 Connect NKB via USB

Personnel Management

- Add, edit, and delete personnel and departments
- · Program card or fingerprint via USB or other readers
- · Authorize access by door or by door group
- Set private passwords and face authenticationManage guest, VIP, and employee access

System Features

Control Client (Cont.)

Access Control

- Monitor door status and events
- Set door groups and door levels
- · Manage access rights
- Use one key to lock/unlock doors
- Link to fire control system
- · Set advanced door rules (passback, first card unlock, for example)

Video Intercom

- Manage communication between intercom devices via SIP protocol or command center
- Release text information to VTH, release address book to VTO

Object Detection

- Take real-time snapshots and record information about human, motorized, and nonmotorized vehicles.
- Extract attributes from snapshots
- Search targets in database by criteria
- Generate daily, weekly, or monthly attribute reports

Thermal

- Supports monocular and binocular thermal imaging devices
- Reads temperature values from video frame

Vehicle Entry

- Edit parking lot information, including total and available spaces and parking lot name
- Manage vehicles, owners, and cards
- Bind LED screen with ITC or spot detector device
- Open barriers via VTO with card or remotely
- Force vehicles to leave parking lot
- · Search historical pass records and export data
- Generate daily, weekly, monthly, and annual vehicle entry statistics

Traffic

- Search violations by time, license plate number, violation type.
- · Supports daily, weekly, monthly, and annual traffic flow statistics
- Query data for vehicle data based on location, time period, and license plate number

System Features

Mobile Client

History Record

- Show recently viewed channels, open live video or playback via history recordings
- Saves up to 20 history recordings before replacing the oldest recording

Live View

- Open more than one channel at the same time, up to 16 channels
- Supports high-definition (HD), standard-definition (SD), and Fluency (FL)stream types
- · Supports PTZ control
- · Supports horizontal screen play
- One-key switch to playback
- Take snapshots, record locally, and talk

Dlavback

- Replay device recordings and center recordings (up to 8x and as slow as 1/8x)
- Marks the calendar to indicate whether there is a video on a particular day
- Supports snapshot
- Manually record to local device
- Supports 1x, 2x, 3x, 4x, 1/2x, 1/4x, and 1/8x playback speeds

Alarm Center

- Subscribe to an alarm
- Process alarms
- View alarm video and picture
- Search alarms

Man

- Supports Google Maps
- Displays the video channel on the map
- · View video and perform playback

Other Functions

- View video from a channel and add channel as a favorite
- View picture and video via a local file.

Technical Specification

Hardware – Server

Operating System		Windows Server 2012 (64-bit) Windows Server 2016 (64-bit) Windows Server 2019 (64-bit) Windows 10 20H2(64 bit)
CPU	Recommended	Intel® Xeon® Silver 4114 @ 2.2 GHz 10 Core Processor
	Minimum	Intel® Xeon® E-2224 3.4GHz, 8M cache
Mamani	Recommended	16 GB
Memory	Minimum	8 GB
System Disk		7200 RPM Enterprise Class HDD 1 TB 500 GB free for DSS
Storage Disk		7200 RPM Enterprise Class HDD
Network	Recommended	Four (4) 1000 Mbps Ethernet Port
Connection	Minimum	Two (2) 1000 Mbps Ethernet Port
Languages		English (United States), Simplified Chinese

Hardware – Control Client

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Operating System		Windows 7 (32-bit) Windows 7 (64-bit) Windows 10 20H2 (32-bit) Windows 10 20H2 (64-bit) Windows Server 2008 (64-bit) Windows Server 2012 (64-bit) Windows Server 2016 (64-bit) Windows Server 2019 (64-bit)
CPU	Recommended	Intel® Core™ i7-6700 CPU @ 3.20 GHz
CFO	Minimum	Intel® Core™ i3-4160 CPU @ 3.60 GHz
Mamani	Recommended	16 GB
Memory	Minimum	8 GB
Graphics Card	Recommended	GeForce® GTX 1060 3 GB (Discrete Graphics Card)
Graphics Card	Minimum	Intel® HD Graphics 530 (Integrated Graphics)
Storage	Recommended	200 GB free space
Storage	Minimum	100 GB free space
Network Connection		One (1) 1000 Mbps Ethernet Port
Languages		Arabic, Bulgarian, Czech, Danish, English (United states), Finnish, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Macedonian, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Thai, Traditional Chiese, Turkish, Ukrainian, Vietnamese

Hardware – DSS Mobile Client

iPhone	Model: iPhone 5S or later OS: iOS 10.0 or later
Android	Resolution: 1280 x 720 or higher RAM: 5 GB or more OS: Android 5.0 or later
Language	Arabic, English (United States), French, Russian, Simplified Chinese
Virtual System	

Virtual System

Operating System	Windows 10 H2 (64-bit)
Operating System	VMware ESXi 6.7

Total System Management Functions

Organization, User, Roles* Roles S00 User Permissions Record and Event Plan General Recording Plans 2,000 Total Users 2,500 Total Users 2,500 Total Users 2,500 Total Users 2,500 Total Users 3,000 Record and Event Plan General Recording Plans 3,000 Motion Detection Recording Plans 3,000 Record Rules 1,000 File Retrieval Plans 3,000 3,000 File Retrieval Plans 3,000 File Retrieval Plans 4,000 File GIS Map Package 500 MB Raster Maps 4,000 File GIS Map Package 500 MB Raster Maps 4,000 File GIS Map Package 500 MB Resources per Map 1,000 File GIS Map Package 1,000 File GIS Map Resources per GIS Map 1,000 Resources per GIS Map 1,000 Resources per Raster Map 1,000 File GIS Map Persons 300,000 File GIS Map Persons 300 File GIS Map File File File File File File File File	Total System Management Functions		
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Total Layers 128			
Layers per Parking Lot 16			
		Layers per Parking Lot	16

Technical Specification

Total System Management Functions (Cont.)

Total System Management Functions (Cont.)		
Entrance/Exit Management (Continued)	Resources per Layer	600
	Parking Spaces per Layer	1,000
	Attendance Terminals	64
Attendance	Attendance Periods	64
	Attendance Shifts	100
	Bridges	5
Synthesis	Incoming Trigger Events	100
	Incoming Trigger Sources	500
Notification Center M	Messages	1,000
	Alarms	20,000,000
	Number Plates	5,000,000
	ANPR	5,000,000
	Metadata	5,000,000
	Access Control	5,000,000
	Video Intercom	5,000,000
	Visitors	5,000,000
	Entrances	5,000,000
	Exits	5,000,000
	Forced Exits	5,000,000
	Attendance	5,000,000
Data Records	Lift Control	5,000,000
Data Necords	Historical Count	5,000,000
	In-area Statistical	5,000,000
	MPT	5,000,000
	Heat Map	5,000,000
	Operator Logs	5,000,000
	Service Logs	5,000,000
	Independent Data Deployment-Event	30,000,000
	Independent Data Deployment-ANPR	30,000,000
	Independent Data Deployment-Video Metadata	30,000,000

Single Server

Managment Functions

Total Devices ¹	Devices	2,000
Total Devices	Auto-registered Devices	1,000
	Video²	1,000 Devices 2,000 Channels
	P2P	32 Devices
Video Devices and Channels ²	ANPR	500 Channels (60 Channels for Entrance)
	Add Devices by ONVIF	1,000 Devices; 2,000 Channels
	Video Metadata Channels	500 Channels
	Access Control Devices and Lift Control Devices	500 devices; 1,000 channels
Access Control	Access Control Devices	500 Devices; 1,000 Doors
Devices	Lift Control Devices	500 Devices; 1,000 Channels
	Video Intercom	2,000 Devices
Alarm Devices	Alarm Controllers	100 Devices; 1,000 Zones
Alarm Devices	Emergency Phone Towers	1,000 Devices; 2,000 Channels
Intelligent Analysis	People Counting Channels	100 Channels
intelligent Analysis	Heat Map Channels	100 Channels

Multi-site Devices per Site 10,000 Devices; 20,000 Channels 600 Mbps 600 Mb			
Multi-site Total Devices Total Incoming Bandwidth per Server Incoming Video per Server Incoming Picture per Server Total Outgoing Bandwidth per Server Total Outgoing Bandwidth per Server Outgoing Video per Server Forever Outgoing Video per Server Outgoing Picture per Server Total Storage Bandwidth per Server Video Storage per Server Picture Storage per Server Video Storage per Server Video Storage per Server Picture Storage per Server Video Storage per Server Video Storage per Server Total Storage Bandwidth for Alarm Recordings Maximum Capacity per Storage Server (Local) Total Events Access Control Events Total Events with Pictures ANPR Events Events with Pictures 50/s (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 50/s (500 KB per picture) Face Capture 50/s (500 KB per picture)		Sites	100 Sites
Total Incoming Bandwidth per Server Incoming Video per Server 600 Mbps Incoming Picture per 200 Mbps Incoming Picture per 200 Mbps Incoming Picture per 200 Mbps Transmission Server Outgoing Bandwidth per Server 600 Mbps Outgoing Picture per 200 Mbps Outgoing Picture per 200 Mbps Outgoing Picture per 200 Mbps Total Storage Bandwidth per Server 600 Mbps Video Storage per Server 600 Mbps Picture Storage per Server 200 Mbps Picture Storage per Server 400 Mbps Prerecording Bandwidth for Alarm Recordings 400 Mbps Maximum Capacity per 200 Mbps Maximum Capacity per 200 Mbps Total Events 4 300/s Events without Pictures 300/s Access Control Events 300/s Total Events with Pictures 300/s (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 50/s (500 KB per picture) Face Capture 50/s (500 KB per picture)	Multi-site	Devices per Site	
per Server Incoming Video per Server Incoming Picture per Server Total Outgoing Bandwidth per Server Outgoing Video per Server Outgoing Picture per Server Outgoing Picture per Server Outgoing Picture per Server Outgoing Picture per Server Total Storage Bandwidth per Server Video Storage per Server Video Storage per Server Picture Storage per Server Ownload Capacity Prerecording Bandwidth for Alarm Recordings Maximum Capacity per Storage Server (Local) Total Events Access Control Events Total Events with Pictures ANPR Events Face Capture Face Capture 600 Mbps 600 Mbps 600 Mbps 400 Mbps 400 Mbps 400 TB 300/s 50/s (50 per 3 sec for entrance and exit) (500 KB per picture) 50/s (500 KB per picture)		Total Devices	
Incoming Picture per Server Total Outgoing Bandwidth per Server Outgoing Video per Server Outgoing Picture per 600 Mbps Forver Outgoing Picture per 600 Mbps Outgoing Picture per 600 Mbps For Server Total Storage Bandwidth per Server Video Storage per Server 600 Mbps Picture Storage per Server 200 Mbps Prerecording Bandwidth for Alarm Recordings Maximum Capacity per Storage Server (Local) Total Events 4 300/s Events without Pictures 300/s Access Control Events 300/s ANPR Events 100 KB per picture) Events with Pictures 50/s (500 KB per picture) Face Capture 50/s (500 KB per picture)		~	600 Mbps
Server Total Outgoing Bandwidth per Server Outgoing Video per Server Outgoing Picture per 600 Mbps Forver Outgoing Picture per 600 Mbps Outgoing Picture per 600 Mbps Forver Forver For John Maps Forver For John Maps Forver And The John Maps Forver For And Maps Forver For Mbps Forver For Mbps Forver Forver Forver Forver Forver Forver Forver Forver For Mbps Forver For Mbps Forver For Mbps Forver For Mbps Forver Forder Forver Forver Forver Forver Forver Forver Forver Forver Form		Incoming Video per Server	600 Mbps
Media Transmission Server Outgoing Video per Server Outgoing Picture per Server Foral Storage Bandwidth per Server Video Storage per Server Video Storage per Server Picture Storage per Server Picture Storage per Server Picture Storage per Server Pownload Capacity Maximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures Access Control Events ANPR Events ANPR Events Face Capture Food Mbps 600 Mbps 400 Mbps 400 Mbps 400 TB 300/s 300/s 300/s 300/s 50/s (50 per 3 sec for entrance and exit) (500 KB per picture) 50/s (500 KB per picture)			200 Mbps
Server Outgoing Video per Server Outgoing Picture per Server Total Storage Bandwidth per Server Video Storage per Server Ficture Storage per Server Formal Storage per Server Video Storage per Server Outgoing Picture per Server Formal Storage per Server Outgoing Picture per Server Formal Storage per Server Outgoing Bandwidth for Alarm Recordings Maximum Capacity per Storage Server (Local) Total Events Events without Pictures Access Control Events Total Events with Pictures ANPR Events Face Capture 600 Mbps 600 Mbps 400 Mbps 400 Mbps 400 TB 300/s 300/s 50/s 50/s 50/s 50/s 50/s 50/s 50/s			600 Mbps
Server Total Storage Bandwidth per Server Video Storage per Server Video Storage per Server Picture Storage per Server Pownload Capacity Playback, Storage, Download Capacity Maximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures Access Control Events Total Events with Pictures ANPR Events ANPR Events Events with Pictures Face Capture 500 Mbps 400 Mbps 400 TB 300/s 300/s 300/s 300/s 300/s 50/s (50 per 3 sec for entrance and exit) (500 KB per picture)		Outgoing Video per Server	600 Mbps
per Server Video Storage per Server Video Storage per Server Picture Storage per Server Picture Storage per Server 200 Mbps 400 Mbps 400 Mbps Maximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures Access Control Events Total Events with Pictures ⁵ ANPR Events ANPR Events Events with Pictures Face Capture 600 Mbps 400 Mbps 400 TB 300/s 300/s 300/s 300/s 300/s 50/s (50 per 3 sec for entrance and exit) (500 KB per picture)			600 Mbps
Picture Storage per Server 200 Mbps Prerecording Bandwidth for Alarm Recordings Maximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures Access Control Events Total Events with Pictures ⁵ ANPR Events ANPR Events Events with Pictures Face Capture 200 Mbps 400 TB 300/s 300/s 300/s 300/s 300/s 50/s (50 per 3 sec for entrance and exit) (500 KB per picture)		Ü	600 Mbps
Playback, Storage, Download Capacity Maximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures Access Control Events Total Events with Pictures ⁵ ANPR Events ANPR Events Events with Pictures Events with Pictures Face Capture Prerecording Bandwidth 400 Mbps 400 TB 400 TB 300/s 300/s 300/s 300/s 300/s 300/s 50/s (50 per 3 sec for entrance and exit) (500 KB per picture)		Video Storage per Server	600 Mbps
Playback, Storage, Download Capacity Maximum Capacity per Storage Server (Local) Total Events 4 300/s Events without Pictures 300/s Access Control Events 300/s Total Events with Pictures 50/s ANPR Events 650 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 50/s (500 KB per picture) Face Capture 50/s (500 KB per picture)		Picture Storage per Server	200 Mbps
Storage Server (Local) 400 TB	Playback, Storage,	•	400 Mbps
Events without Pictures 300/s Access Control Events 300/s Total Events with Pictures 50/s ANPR Events (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 50/s (500 KB per picture) Face Capture 50/s (500 KB per picture)	Download Capacity		400 TB
Access Control Events 300/s Total Events with Pictures 300/s (200 Mbps) 50/s Events 4 ANPR Events (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 50/s (500 KB per picture) Face Capture 50/s (500 KB per picture)		Total Events⁴	300/s
Events³ ANPR Events ANPR Events Events with Pictures ANPR Events So/s (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 50/s (500 KB per picture) Face Capture 50/s (500 KB per picture)		Events without Pictures	300/s
Events ³ ANPR Events (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures Face Capture 50/s (500 KB per picture)		Access Control Events	300/s
ANPR Events (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures Face Capture (50 per 3 sec for entrance and exit) (500 KB per picture) 50/s (500 KB per picture)		Total Events with Pictures⁵	300/s (200 Mbps)
Face Capture 50/s (500 KB per picture)	Events ³	ANPR Events	(50 per 3 sec for entrance and exit)
		Events with Pictures	50/s (500 KB per picture)
Object Detection 25/s (1020 KB per picture)		Face Capture	50/s (500 KB per picture)
		Object Detection	25/s (1020 KB per picture)

Multiple Servers

Managment Functions

Wallagilient Fulletions		
Total Sub Servers		Up to 10
Total Devices ¹	Devices	20,000
Total Devices	Auto-registered Devices	10,000
	Video²	10,000 Devices 20,000 Channels
	P2P	32 Devices
Video Devices and Channels ²	ANPR	5,000 Channels (60 Channels for Entrance)
	Add Devices by ONVIF	10,000 Devices; 20,000 Channels
	Video Metadata Channels	5,000 Channels
	Access Control Devices and Lift Control Devices	1,500 Devices; 3,000 Channels
Access Control	Access Control Devices	1,500 Devices; 3,000 Doors
Devices	Lift Control Devices	1,500 Devices; 3,000 Channels
	Video Intercom	2,000 Devices
	Alarm Controllers	500 Devices; 5,000 Zones
Alarm Devices	Emergency Phone Towers	10,000 Devices; 20,000 Channels
Intelligent April	People Counting Channels	300 Channels
Intelligent Analysis	Heat Map Channels	300 Channels

Multiple Servers

Managment Functions (Cont.)

Multi-site Devices per Site 10,000 Devices; 20,000 Channels	Managinetic i diletions (cont.)		
Total Devices 10,000 Devices; 20,000 Channels Total Incoming Bandwidth per Server Incoming Video per Server 2,000 Mbps Incoming Picture per Server 6,000 Mbps Transmission Server Outgoing Video per Server 6,000 Mbps Outgoing Video per Server 6,000 Mbps Outgoing Picture per 6,000 Mbps Total Storage Bandwidth per Server 6,000 Mbps Video Storage per Server 6,000 Mbps Picture Storage per Server 9,000 Mbps Picture Storage per Server 2,000 Mbps Prerecording Bandwidth for Alarm Recordings 4,000 Mbps Total Events 4 600/s Events without Pictures 600/s Access Control Events 600/s Total Events with Pictures 500/s (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Events with Pictures 500/s (500 KB per picture)		Sites	100 Sites
Total Incoming Bandwidth per Server Incoming Video per Server 6,000 Mbps Incoming Picture per 2,000 Mbps Total Outgoing Bandwidth per Server 6,000 Mbps Outgoing Video per Server 6,000 Mbps Outgoing Picture per 6,000 Mbps Outgoing Picture per 6,000 Mbps Total Storage Bandwidth per Server 7 Total Storage Bandwidth per Server 9,000 Mbps Picture Storage per Server 9,000 Mbps Picture Storage per Server 2,000 Mbps Prerecording Bandwidth for Alarm Recordings 4,000 Mbps Prerecording Bandwidth for Alarm Recordings 4,000 Mbps Maximum Capacity per Storage Server (Local) 4 PB Total Events 4 600/s Events without Pictures 600/s Access Control Events 600/s Total Events with Pictures 600/s (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)	Multi-site	Devices per Site	10,000 Devices; 20,000 Channels
per Server Incoming Video per Server Incoming Picture per Server 2,000 Mbps Total Outgoing Bandwidth per Server Outgoing Video per Server 6,000 Mbps Outgoing Video per Server 6,000 Mbps Outgoing Picture per Server Total Storage Bandwidth per Server Total Storage Bandwidth per Server Video Storage per Server Video Storage per Server Video Storage per Server Picture Storage per Server 2,000 Mbps Prerecording Bandwidth for Alarm Recordings Maximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures 600/s Access Control Events 600/s ANPR Events Events with Pictures 500/s (500 per 3 sec for entrance and exit) (500 KB per picture) Face Capture 500/s (500 KB per picture)		Total Devices	10,000 Devices; 20,000 Channels
Incoming Picture per Server 2,000 Mbps Total Outgoing Bandwidth per Server 6,000 Mbps Outgoing Video per Server 6,000 Mbps Outgoing Picture per Server 6,000 Mbps Outgoing Picture per 6,000 Mbps Total Storage Bandwidth per Server 6,000 Mbps Total Storage Bandwidth per Server 7,000 Mbps Picture Storage per Server 2,000 Mbps Prerecording Bandwidth for Alarm Recordings 4,000 Mbps Prerecording Bandwidth for Alarm Recordings 4,000 Mbps Maximum Capacity per Storage Server (Local) 4 PB Total Events ⁴ 600/s Events without Pictures 600/s Access Control Events 600/s Total Events with Pictures 600/s (500 Mbps) Events with Pictures 500/s (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)		- C	6,000 Mbps
Server Total Outgoing Bandwidth per Server Outgoing Video per Server Outgoing Picture per Server Forver Outgoing Picture per Server Forver Total Storage Bandwidth per Server Video Storage per Server Video Storage per Server Picture Storage per Server Picture Storage per Server Aummum Capacity Maximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures Access Control Events ANPR Events Events with Pictures 500/s (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)		Incoming Video per Server	6,000 Mbps
Media Transmission Server Outgoing Video per Server Outgoing Picture per Server For Server Outgoing Picture per Server For Alarm Recordings Maximum Capacity per Storage Server (Local) Total Events ACCESS Control Events ANPR Events Face Capture Outgoing Video per Server 6,000 Mbps 6,000 Mbps 6,000 Mbps 4,000 Mbps 4,000 Mbps 4,000 Mbps 4 PB 600/s 60			2,000 Mbps
Server Outgoing Video per Server Outgoing Picture per Server Total Storage Bandwidth per Server Video Storage per Server Ficture Storage per Server Picture Storage per Server Picture Storage per Server Picture Storage per Server 2,000 Mbps Prerecording Bandwidth for Alarm Recordings Aximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures Access Control Events Fool/s ANPR Events ANPR Events Events with Pictures Face Capture 6,000 Mbps 4,000 Mbps 4,000 Mbps 600/s 6			6,000 Mbps
Server Total Storage Bandwidth per Server Video Storage per Server Video Storage per Server Picture Storage per Server 2,000 Mbps Prerecording Bandwidth for Alarm Recordings Maximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures Access Control Events ANPR Events ANPR Events Events with Pictures 500/s Events with Pictures 500/s (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)		Outgoing Video per Server	6,000 Mbps
Playback, Storage, Download Capacity Playback, Storage, Download Capacity Access Control Events ANPR Events Perents with Pictures Face Capture Video Storage per Server 6,000 Mbps 4,000 Mbps 4,000 Mbps 4,000 Mbps 4,000 Mbps 4,000 Mbps 4,000 Mbps 4 PB 600/s 600/s 600/s 600/s 600/s 600/s 600/s 500/s 600/s 500/s 600/s 500/s 600/s 500/s 500/s 600/s 500/s 600/s 500/s 600/s 600			6,000 Mbps
Picture Storage per Server Playback, Storage, Download Capacity Maximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures Access Control Events 600/s Events ³ Events with Pictures ANPR Events ANPR Events Events with Pictures 500/s (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)		-	6,000 Mbps
Playback, Storage, Download Capacity Maximum Capacity per Storage Server (Local) Total Events ⁴ Events without Pictures Access Control Events 600/s Total Events with Pictures ⁵ 600/s (200 Mbps) Events ³ Events with Pictures ANPR Events Events with Pictures 500/s (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)		Video Storage per Server	6,000 Mbps
Playback, Storage, Download Capacity Maximum Capacity per Storage Server (Local) Total Events ⁴ 600/s Events without Pictures 600/s Access Control Events 600/s Total Events with Pictures ⁵ 600/s (200 Mbps) Events ³ ANPR Events Events with Pictures 500/s (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)		Picture Storage per Server	2,000 Mbps
Storage Server (Local) 4 PB	Playback, Storage,		4,000 Mbps
Events without Pictures 600/s Access Control Events 600/s Total Events with Pictures ⁵ 600/s (200 Mbps) Events ³ ANPR Events (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)	Download Capacity		4 PB
Access Control Events 600/s Total Events with Pictures 600/s (200 Mbps) Events ANPR Events 500/s (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)		Total Events⁴	600/s
Total Events with Pictures 600/s (200 Mbps) Events 500/s ANPR Events (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)		Events without Pictures	600/s
Events ³ ANPR Events (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)		Access Control Events	600/s
Events ³ ANPR Events (50 per 3 sec for entrance and exit) (500 KB per picture) Events with Pictures 500/s (500 KB per picture) Face Capture 500/s (500 KB per picture)		Total Events with Pictures⁵	600/s (200 Mbps)
Face Capture 500/s (500 KB per picture)	Events ³	ANPR Events	(50 per 3 sec for entrance and exit)
		Events with Pictures	500/s (500 KB per picture)
Object Detection 250/s (1024 KB per picture)		Face Capture	500/s (500 KB per picture)
		Object Detection	250/s (1024 KB per picture)

Thermal Temperature Monitoring Solution Functions

Thermal Cameras	Per Server	400
mermai Cameras	In Total	2,000
Imagas	Per Server	150 pictures per second
Images	In Total	350 pictures per second
Supported Functions		Online License ActivationPicture Storage/SnapshotRecord/Playback

Ordering Info	ormation	
License Name	Description	
DSS8PRVB	DSS Pro V8 Video Base License: Includes 16 video channels (IPC, NVR, FR, LPR). Required to purchase additional video channel licenses.	
DSS8PRDB	DSS Pro V8 Door Base License: Includes 16 door channels. Required prior to purchasing a video channel license. Note: An access control device with video requires one (1) door channel license and one (1) video channel license.	
DSS8PRV	One (1) Video Channel License. Use for an additional network camera, NVR, or ANPR channel.	
DSS8PRD	One (1) Door Channel License. Note: An access control device with video requires one (1) door channel license and one (1) video channel license.	
DSS8PRVDP	One (1) Video Intercom Device License. Use for one (1) VTO or one (1) VTH device.	
DSS8PRPOS	One (1) POS Channel License. Note: Customization is required to integrate with third-party POS server or terminal.	
DSS8PRRAD	One (1) Radar Device License. For the radar tracking function of specific PTZ cameras.	
DSS8PRVEM	Vehicle Entrance Management Module License. This license also requires a video license.	
DSS8PRATT	Attendance Management Module License. This license also requires a door license since access control equipment is required.	
DSS8PRCAC	Cascade Management License. One remote site managed by superior site per license.	
DSS8PRMSITE	DSS Multi-site License for DSS Professional V8. Supports to enable PC Clients to access other sites or be accessed by PC Clients of other sites.	
DSS8PRLC	One Lift Controller Channel License for DSS Professional V8. No prerequisite required.	
Optional Mobile Application	The mobile client app supports DSS version 8 and offers	
(Available via the Apple App Store and the Google Play Store)	DSS Agile 8 monitoring center, event center, intelligent search and access management.	

^{1.} The total number of devices must not exceed the total number of video devices, access control devices,

video intercom devices, and other devices.
The total number of video devices and channels must not exceed the total number of network cameras, NVRs, ITCs, and other video devices and channels.

^{3.} Event concurrency is peak concurrency: 20 minutes of peak concurrency test, 3 times a day, and 30% peak concurrency for the remaining time of the day. Event concurrency: Event concurrency is in accordance with database concurrent writes. Concurrency of event with pictures must take picture write capacity of

Total event concurrency: The ability to write all events to system records concurrently.

^{5.} For concurrency of events with pictures, picture write concurrency should also be taken into consideration.

The picture write concurrency of an individual server is up to 200 Mbps, so the concurrency of events with pictures is limited by picture write capacity.