

Digital Surveillance System

DSS Express S Video Management System



- Supports 256 IP Cameras
- Supports 256 Video Intercom Devices
- 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
- Offers Facial Recognition and Search on Live View

System Overview

The DSS Express S Video Management System is a powerful, all-in-one video surveillance management software for system scalability and reliability. The DSS Express S supports up to 256 network cameras and 256 Video Intercom devices, with the ability to integrate multiple access or video intercom devices.

DSS Express S provides user rights management, device management, alarm management, video wall output, and two-way audio. In addition to these VMS features, DSS Express S offers advanced features, including support for real-time face recognition and robust event management controls.

Functions

Flexibility and Scalability

DSS Express S supports 256 IP video channels, with support for two (2) connected face recognition cameras. DSS Express S also supports 256 Video Intercom Devices (SIP-enabled), and offers features to manage and control access control devices.

Compatibility

DSS Express S is compatible with all Dahua IP-enabled devices: network cameras, NVRs, DVRs, video intercom devices, and access control devices. The server is also compatible with the ONVIF protocol, so it can connect to ONVIF-enabled third-party 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.

Real-time Face Recognition

The DSS Express S performs real-time facial recognition on up to 2 channels simultaneously. The software captures and analyzes facial features to determine gender, age, expression, glasses, moustache, and mask, and then can record the faces and store the associated structured data. The server also filters incoming video to display faces that match target features.

Access Control and Video Intercom

DSS Express S 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

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

Management Operations

The software manages the devices and the user 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

General Functions

Organization and Group Management

Device Management

- Initialize Dahua devices
- Add devices via auto search and IP Address
 Manage Dahua devices
- Ivianage Danua devices

Users Management

- Add, edit and delete users
- Assign appropriate permissions to specific usersRestrict user access by MAC and expiration dates
- Set user PTZ permissions

Bind Access Control Channels

Playback

- Playback recording from edge devices
- Apply video filters: normal, motion, alarm, video loss, video tampering
- Sync play
- Reverse playback
- Playback frame-by-frame
- Supports 1x, 2x, 4x, 8x, 16x, 32x, 64x, 1/2x, 1/4x, 1/8x, 1/16x, 1/32x, 1/64x playback speeds
- Lock or mark important recording segments for central storage

Emap

- Use raster map, main map, and sub-maps
- Supports 8-level sub-map
- · Add, edit, and delete hot spots (camera, alarm input) on the map
- View live video and playback on the map
- Zoom in and zoom out the map
- Supports visible range and initial angle
- Icon flashes on map when alarm occurs

Video Wall

- Add and manage the video wall
- Supports On/Off screen ID
- · Combine multiple screens into one screen
- Bind the decode channel with the corresponding screen
- Decode the real-time video to the video wall
- Decode the playback video to the video wall
- · Manually or automatically decode to wall
- Control the video wall split
- · Change the stream type of video channel
- Add box, on/off screen, and back display
- Tour the video channel
- Schedule plan: Set the running task on timeline
- Tour plan: Loop different tasks, set loop times
- Supports NKB1000 to control video wall

Live View

- Displays device tree, device IP Address or device name
- Control PTZ cameras
- Set manual recording
- Take Snapshots
- Apply Fisheye dewarping
- Audio talk
- Set alarm window
- Set Region of Interest: divide one window into 4 or 6 parts, one shows whole image and others show details
- Supports Four (4) Live View tabs
- Save current split as a view
- Add channels as favorites
- Video tour according to device, organization, favorite or view.
- View map via live view window

Event Management

- Detect device exception, video events, alarm input, access control Events, etc.
- 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
- Add, edit, delete, enable, and disable alarm schemes
- Display event info including alarm time, alarm name, alarm status, etc.
- View live video or pictures from a related camera
- Acknowledge events
- Arm control for events
- Forward alarm to relevant users
- Send e-mail when processing events
- Process eventsSearch events
- Search events
- Download Center
- Download recordings from an edge device
- Download recordings by timeline, files, or tags
- Supports multi-task download
- Supports .dav, .MP4, .flv, .asf, and .avi video formats

Intelligent Building Functions

Personnel Management

- Add, edit, and delete people and departments
- · Issue card credentials or fingerprint via USB reader or device
- Authorize by door or door group
- · Issue private passwords and face authentications
- Manage guest, VIP, and normal personnel management

Access Control

- Monitor door status and events
- · Group door access levels
- Manage access rights
- Lock/Unlock doors with one key
- Link fire detection devices
- Set advanced door rules: anti-passback, first card unlock, inter-door lock, multiple card unlock, remote verification

Video Intercom

- Supports Video Intercom devices based on SIP protocol or with command center
- Release text information to VTH series devices
- Release address book to VTO series devices

Analytics+

Logs

us.dahuasecurity.com

Face Recognition

• Perform face recognition

Manage face library

System Maintenance

· Search and export logs

· Backup system data manually

Backup and Restore

Other Functions

• FTP for alarm pictures

- Search for faces in live video using similar face or feature search
- · Prepare structured reports of gender and age

View operator log and door log in control client

· Restore system data from server or local file

Calibrate device time and server time

Backup system data automatically (daily, weekly, monthly)

DSS | DSS Express S

Technical Specification

Hardware-Server

Operating System		Windows 7, Windows 8.1, Windows 10, Windows Server 2008
CPU	Recommended	Intel® Xeon® CPU E3-1220 v5 @3.00GHz
	Minimum	Intel® Core™ i3-2120
Memory		8 GB
Storage	Recommended	at least 500 GB
	Minimum	at least 200 GB
Network Connection	Recommended	Four (4) 1000 Mbps Ethernet Ports
	Minimum	Two (2) 1000 Mbps Ethernet Ports

Hardware- Control Client

Operating System		Windows 7, Windows 8.1, Windows 10
CPU	Recommended	Intel® Core™ i5-6500 @ 3.20GHz
CPU	Minimum	Intel® Core™ i3-2120 @ 3.30GHz
Momony	Recommended	8 GB
Memory	Minimum	4 GB
Graphics Card	Recommended	Intel [®] HD Graphics 530
	Minimum	Intel® HD Sandbridge Desktop Graphics
Storago	Recommended	100 GB free space
Storage	Minimum	50 GB free space
Network Connection		One (1) 1000 Mbps Ethernet Port

Video N	lanagement
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Organization and User Organization 10 Hierarchies, 999 organizations per hierarchy User Groups Three (3) Levels Users 200 User Account Logins, One (1) User access at a time Video ¹ 256 Channels Devices (single point performance) Access Control ¹ Video Intercom ¹ 256 Devices (ha mere then GAUTO devices)
and User User Groups Three (3) Levels Users 200 User Account Logins, One (1) User access at a time Video ¹ 256 Channels Devices (single point performance) Access Control ¹ 64 IP Devices, 256 Doors Video Intercom ¹ 256 Devices
Users One (1) User access at a time Video1 256 Channels Devices Access Control1 64 IP Devices, 256 Doors (single point 256 Devices 256 Devices
Devices Access Control ¹ 64 IP Devices, 256 Doors (single point 256 Devices) Video Intercom ¹ 256 Devices
(single point performance) Video Intercom ¹ 256 Devices
porformanco) Video Intercom ¹ 256 Devices
(No more than 64 VTO devices)
Face Recognition Cameras Two (2) Channels
Media Video Input, per server 350 Mbps
Server Video Output, per sever 350 Mbps
Number of events without pictures Event
Number of events with pictures Five (5) per second
Raster Map Hierarchies Eight (8)
Photos per Raster Emap Map Up to 64
Raster Map Size Up to 15 MB
Channels Up to 200
Persons 30,000
Personnel Cards 30,000
Fingerprints 90,000

 The maximum number of video, access control, or video intercom devices listed assumes that no other type of device is connected to the DSS.

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