

Digital Surveillance System

DSS Express Video Management System Server



- Embedded Linux Operating System with Pre-installed DSS Express Software
- Live Video Playback
- Supports Access Control and Video Intercom Integration
- Configure Video Wall Layout and Scheme
- Configure NVR Recording
- Offers Fisheye Camera Dewarping on Live View and Playback Images
- Intelligent Video System with Face Detection Plus , People Counting and Heat Map
- Five-year Warranty*

System Overview

The DSS4004-S2 Express Video Management System is a powerful, all-in-one video security management system pre-loaded with Linux-optimized DSS Express software for system scalability and reliability. The server integrates multiple access or video intercom devices with security cameras. The server supports 3 hard disk drives for video and snapshot storage and supports edge storage and extended storage via iSCSI.

The server provides user rights management, device management, alarm management, center storage, TV wall output and, two-way audio. In addition to these VMS features, the server offers advanced features, including support for real-time face detection +, and robust event management controls, features not found on many other VMS servers.

Functions

Compatibility

The VMS server is compatible with all Dahua IP-enabled devices: network cameras, NVRs, DVRs, and access control devices plus many more. The server is also compatible with the ONVIF protocol, so it can connect to ONVIF-enabled third-party devices. The server offers and SDK for further support of third-party platforms and mobile operating systems.

Fisheye Camera Support

DSS features full support for Dahua Fisheye cameras. The software supports options for the Fisheye camera installation and eight (8) dewarp modes. Dewarping solves the problem of distortion in the circular panoramic view in both live or playback modes.

Real-tme Face Detection Plus

The DSS4004-S2 performs real-tme facial detection +, simultaneously on several channels. The server 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

The DSS4004-S2 server offers full support and integration for access control and video intercom products to support a complete security 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 communicaton between intercom and the control center.

Video Wall

DSS 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 server 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, IPManage Dahua devices
- Manage Danaa acvice.

Users and Authority Add, edit and delete users

- Assign appropriate permissions to specific users
- Restrict user access by MAC and expiration dates
- Set user PTZ permissions

Storage

- · Set central storage: local disk storage and extend storage via ISCSI
- Add, edit, delete, enable and disable recording plan
- Support edge storage and central storage recording plan

Bind Access Control Channels

Playback

- Playback recording from edge devices or central storage
- · 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
- (decoder hardware is required to setup a 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 in a single window
- Schedule plan: Set the running task on timeline
- Tour plan: Loop different tasks, set loop times
- Supports NKB1000 to control video wall

Live View

- Offers Common layout and customized layout
- Control PTZ cameras
- Set manual recording
- Take Snapshots
- Apply Fisheye dewarping
- Audio talk
- Set alarm window
- 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.
- 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
- - - -

Download Center

- Download recordings from central storage or 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 VDP devices based on SIP protocol or with command center

• Search for faces in live video using similar face or feature search

- Release text information to VTH series devices
- Release address book to VTO series devices

· Prepare structured reports of gender and age

Search and export people counting report

· Search and export heat map report

System Maintenance

· Search and export logs

· Backup system data manually

Backup and Restore

Other Functions

• FTP for alarm pictures

· Set alarms and event linkage for face detections

• 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)

Video Analytics Face Detection Plus

• Perform face detection +

Record face detections

Manage face library

Flow Analysis

logs

us.dahuasecurity.com

DSS | DHI-DSS4004-S2

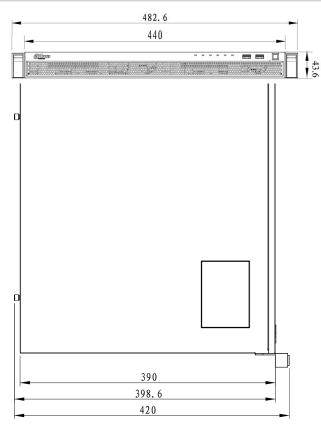
Technical Specification				Playback Bandwidth		150 Mbps	
System				per Server Video Storage Bandwidth			
Main Processor		Intel® Core™ i3-6100, 64-bit, 4-core Processo	Record	per Server		150 Mbps	
Operating System		Embedded Linux		Maximum Capacity per Storage Server		100 TB	
Memory		8 GB		Download Task		Up to Five (5) per Client	
Power Supply		Hot-swappable Power Supply		Number of events without pictures		80 per second	
Interface			Event	Number of events with pictures		Five (5) per second	
Network Ports		Four (4) RJ-45 Ports (10/100/1000 Mbps)		Hierarchy of Raster Map		8 Hierarchies	
RS232		Reserved					
RS485		Reserved	51440	Hierarchy of Raster Map		8 Hierarchies	
USB		Front Panel: Two (2) USB 3.0 Ports Rear Panel: Two (2) USB 3.0 Ports On-board Panel: One (1) USB 2.0 Port	EMAP	Photos of Raster Map Raster Map Size		up to 64 Photos up to 14.70 MB	
VGA		One (1) VGA Port, as Network Configuration		Channels		up to 2000	
		(,,,,)				2000	
Storage HDD Installation		Built-in 1 TB HDD (2.5-in.) for Operating System Supports 3 HDD (2.5-in.) for video and picture	Personnel	Persons			
			Management	Cards Fingerprints		2000	
Storago		storage	Electrical	i inger printe			
Storage 8 TB per HDD			Power Supply	Electrical Power Supply 100 VAC to 240 VAC, 47 to 63 Hz			
Video Management			Power Consumption		70 W to 120 W, with HDD		
	PC	10 Online	Environmen				
Client	DSS Mobile 2	10 Online	Operating Conditions		0° C to +45° C (+32° F to +113° F),		
	DSS Mobile for VDP	200 Online, 2000 Total			5% to 90% RH, n	-	
	Organization	10 Hierarchies 999 Organizations per Hierarchy	Storage Conditions		–20° C to +70° C (–4 °F to +158° F), 5% to 90% RH, non-condensing		
Organization and Users	User Group	Three (3) Levels	Operating Altitude		-60.0 m to 3000.0 m (-196.85 ft to 9842.52 ft)		
	User	10 Online User, 50 Users	Construction				
Devices (Single Point Performance)	Video	256 Channels	Dimensions		1U, 440.0 mm x 398.60 mm x 43.65 mm (17.32 in. x 15.69 in. x 1.72 in.)		
	Access Control	64 IP Devices, 64 Doors	Net Weight		6.0 kg (13.23 lbs)		
	VDP Devices	1000 Devices (no more than 64 VTO devices)	Material		1.0 mm SGCC Ste	eel Plate	
	Face Detection Plus	32 Channels	Installation		Standard 19-in. Rack Installation		
	License Plate Capture/Recognition	32 Channels	Certification	IS			
	Alarm Host	64	Safety		EN 60950-1:2006+A11:2009+A1:2010+A12: 2011+A2:2013		
Media Transmission Server	Video Input Server	350 Mbps	Electromanet	Compatibility	FCC 47 CFR Part 1 EN 55032:2015		
	Video Output Server	350 Mbps	Electromagnetio (EMC)	compatibility	EN 55024:2010+A1:2015 EN 50130-4:2011+A1:2014 EN 61000-3-2:2014 EN 61000-3-3:2013		
					LN 01000-3-3:20	1.5	

Ordering Information

Туре	Part Number	Description
Digital Management System	DHI-DSS4004-S2	DSS Express, 3 HDD Bays

DSS | DHI-DSS4004-S2

Dimensions (mm)



Physical Interfaces

				65 115		3	2	
1	Power Button	4		D State	16			
2	USB 3.0 Port	5		IDD Status				
_								
3	USB 3.0 Port 6 Network Status							
				10				
1	Gigabit Network Ports 3 ar	nd 4	7	eSAT	4			
2	Gigabit Network Ports 1 ar	nd 2	8	N/A				
3	Audio OUT		9	Powe	er Conne	ection		
4	Audio IN	1	10	USB 3	3.0 Ports	5 x 2		
5	N/A	1	11	N/A				
6	VGA OUT							



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