

Digital Surveillance System

DSS Express Video Management System Server



- Embedded Linux Operating System with Pre-installed DSS Express Software
- Supports 512 IP Cameras
- 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 Recognition
- Five-year Warranty*

System Overview

The DSS4004-S2 Express Video Management System is a powerful, all-in-one video surveillance management system preloaded with Linux-optimized DSS Express software for system scalability and reliability. The server supports up to 512 network cameras, 100 online clients, and the ability to integrate multiple access or video intercom devices.

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 recognition and robust event management controls, features not found on many other VMS servers.

Functions

Flexibility and Scalability

The DSS4004-S2 VMS Server supports 512 IP video channels per server, with support for 32 connected face recognition cameras. The server supports 3 hard disk drives for video and snapshot storage and supports edge storage and extended storage via iSCSI.

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 an 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-time Face Recognition

The DSS4004-S2 performs real-time facial recognition on up to 64 channels simultaneously. 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 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

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.

Technical Specification

System

Main Processor	Intel® Core™ i3-6100, 64-bit, 4-core Processor
Operating System	Embedded Linux
Management Software	DSS Express, pre-installed
Memory	8 GB
Power Supply	Hot-swappable Power Supply

Display

Mode	Live View, PTZ Control, Snapshot, Instant Playback, Customized Layout
Video Wall	Push Real-time, Alarm and Playback Video to Wall
Dewarping	Supported for Fisheye Video on Live View and Playback

Playback

Playback	36-channel Synchronized Playback
Playback Mode	Normal, Motion Detection, Alarm, IVS, POS
Search Mode	Smart Search, POS Transaction Data and Video

Storage

HDD Installation	Built-in 1 TB HDD (2.5-in.) for System Supports 3 HDD (2.5-in.) for video and picture storage
Storage	8 TB per HDD

Interface

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
Display	Two HDMI Ports: <ul style="list-style-type: none"> One (1) as Network Configuration One (1) as a Spare Port One (1) VGA Port, as Network Configuration

Video Management

Maximum Connected IP Cameras	512 Video Channels	
Maximum Connections	Face Recognition Cameras	32 Channels
	LPC	32 Channels
	Access Control	100 IP Devices, 512 Doors
	Video Intercom	1024 Devices
ONVIF	100 Devices	
Clients per System	100 Simultaneous Users	
Number of Users	Unlimited	
Number of Roles	100	
Bandwidth, per Server	Video Input	350 Mbps
	Video Output	350 Mbps
	Video Storage	150 Mbps

Network

Network Ports	Four (4) RJ-45 Ports (10/100/1000 Mbps)
Interoperability	ONVIF, DSS SDK for Integration
GIS Map	Supported; Google and RasterMap
Email	Supported; Yahoo, Gmail, HotMail

Electrical

Power Supply	100 VAC to 240 VAC, 50/60 Hz
Power Consumption	70 W to 120 W, with HDD

Environmental

Operating Conditions	-0° C to +45° C (+32° F to +113° F), 5% to 90% RH, non-condensing
Storage Conditions	-20° C to +70° C (-4° F to +158° F), 5% to 90% RH, non-condensing
Operating Altitude	-60.0 m to 3000.0 m (-196.85 ft to 9842.52 ft)

Construction

Dimensions	3U, 440.0 mm x 398.60 mm x 43.65 mm (17.32 in. x 15.69 in. x 1.72 in.)
Net Weight	6.0 kg (13.23 lbs)
Material	1.0 mm SGCC Steel Plate
Installation	Standard 19-in. Rack Installation

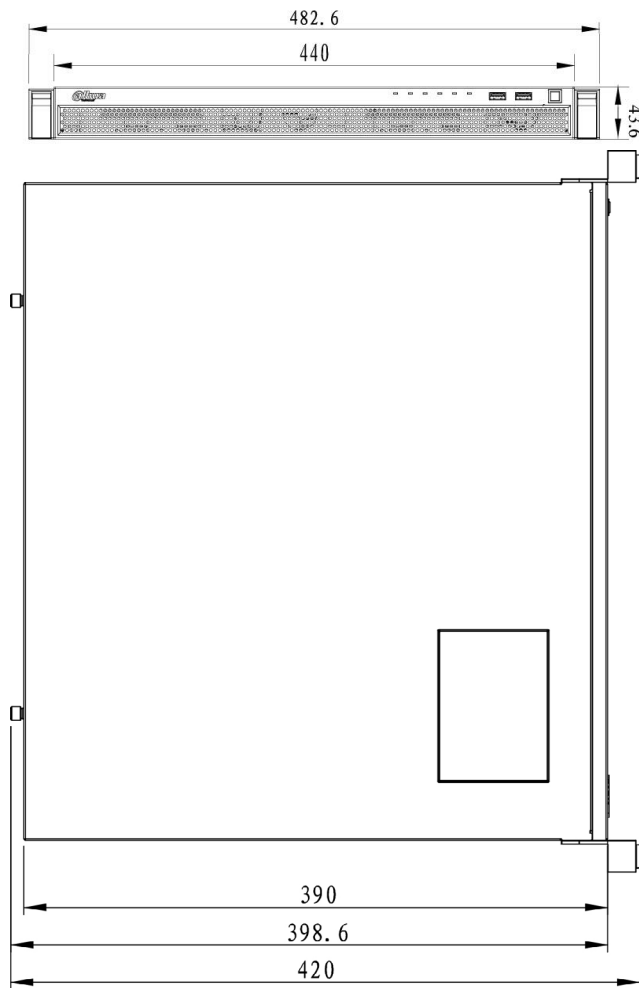
Certifications

Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
Electromagnetic Compatibility (EMC)	FCC 47 CFR Part 15 Subpart B EN 55032:2015 EN 55024:2010+A1:2015 EN 50130-4:2011+A1:2014 EN 61000-3-2:2014 EN 61000-3-3:2013

Ordering Information

Type	Part Number	Description
Digital Surveillance System	DHI-DSS4004-S2	DSS Express, 3 HDD, 512 IP Camera

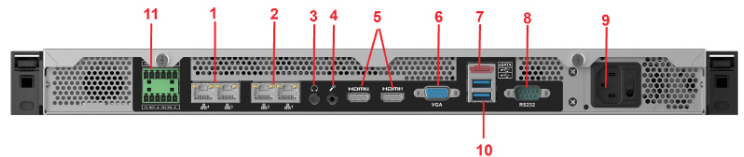
Dimensions (mm)



Physical Interfaces



1	Power Button	4	HDD Status
2	USB 3.0 Port	5	Alarm Status
3	USB 3.0 Port	6	Network Status



1	Gigabit Network Ports 3 and 4	7	eSATA
2	Gigabit Network Ports 1 and 2	8	N/A
3	Audio OUT	9	Power Connection
4	Audio IN	10	USB 3.0 Ports x 2
5	HDMI 1 and HDMI 2 OUT	11	Alarm I/O
6	VGA OUT		