

# DHI-DSS4004-S2

An Economical Surveillance System



## Introduction

DSS4004-S2 is an economical general surveillance system preloaded with linux-optimized DSS Express, which improves reliability of the whole system. It supports up to 512 network cameras and integrates video, access control, video intercom and AI functions, which provides a cost-effective all-in-one solution.

## Features

### High Cost-effective

- Preloaded with linux-optimized easy-to-use DSS Express, which makes the deployment simplified
- Pre-activated 512 video channels can save the enormous costs of projects

### High Reliability

- Hot standby of two servers will keep the system 7\*24h stable operation
- Long-term stability test make the hardware, OS and software more compatible

## Main Functions

### Organization Management

- Through organization to achieve device group management.

### Device Management

- Device initialization: Initialize Dahua's device
- Add devices via auto search, IP
- Manage Dahua's devices such as network camera, network speed dome, NVR, DVR, Access Control, etc.

### Users & Authorities

- Add, edit and delete the users.

- Assign different users with different permissions.
- User can be restricted by the MAC and expiry data.
- Supports user PTZ permissions.

### Storage

- Central storage: local disk storage and extend storage via iSCSI
- Add, edit, delete, enable and disable the record plan
- Supports edge storage and central storage for record plan

### Resource Binding

- Binding Access Control channels with the corresponding cameras

### Playback

- Replay the record from the edge devices or central storage.
- Video filter: normal, motion, alarm, video loss, tampering video
- Sync play
- Reverse replay
- Replay frame-by-frame
- Supports 1X, 2X,4X,8X,16X,32X,64X, 1/2X, 1/4X, 1/8X, 1/16X, 1/32X, 1/64X playback
- Lock or mark the important record for central storage.

### Emap

- Raster map, main map and submaps
- Up to 8-level submap
- Add, edit and delete the submap on the map
- Add, edit and delete the hot spots (camera, alarm input) on the map
- View the 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 combine screens to one screen.
- Bind the decode channel with the corresponding screen.
- Decode the real-time video to wall
- Decode the playback video to the video wall.
- Manually/automatically decode to wall.
- Control the video wall split
- Change the stream type of video channel.
- Adding 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 task, can set loop time
- Supports NKB1000 to control video wall.

### Live View

- Common layout and customized layout
- PTZ control
- Manual recording
- Snapshot
- Fisheye dewrapping
- Audio talk
- Set alarm window.
- Turn on/off the audio in live view
- Region of Interest: Divide one window into 4 or 6 parts, one shows whole image, others show the detail.
- Save the current split as a view.
- Supports adding channel to favorite
- Video tour according to device, organization, favorite or view.
- View map via live view window

### Event Management

- Detect the device exception, video events, alarm input, access control Events, etc.
- Alarm Scheme: All day template, Weekday template, Weekend template and custom template.
- Alarm Priority: Low, Medium, High.
- Linkage: record, snapshot, live video, alarm output, PTZ, E-mail.
- Add, edit, delete, enable and disable alarm scheme.
- Display event info including alarm time, alarm name, alarm status, etc.
- View the live video or pictures from related camera.
- Acknowledge the events.
- Arming control for events.
- Forward the alarm to relevant user.
- Send e-mail when processing events.
- Process the events.
- Search events

### Download Center

- Download record from central storage or device.
- Download record by timeline, files or tags.
- Supports multi-task download.
- Supports dav, MP4, flv, asf, and avi format.

### Personnel Management

- Add, edit and delete the person and department
- Issue the card, fingerprint via USB reader or devices
- Authorize by door or door group

- Private password and face authentications
- Guest, VIP and normal person management
- Import and export batch personnel information

### Access Control

- Door status and door events monitor
- Door group and access level
- Access right management
- One-key to lock/unlock the doors
- Fire linkage
- Advanced door rules, such as anti-passback, first card unlock, inter-door lock, multiple card unlock, remote verification

### Video Intercom

- 2-way video talk between VTO and control center
- 2-way audio call between VTH/SIP phone and control center
- VTH and sip phone group call
- Push notification to VTH
- Transfer video talk request to mobile phone from VTH
- Supports to open the door remotely

### Face Recognition

- Supports real-time face recognition
- Supports captured record query
- Export the report of searching result
- Supports report statistics: gender, age, quantity, time
- Face library management

### ANPR

- Real-time license plate recognition
- Search passing records

## Single-Point Performance Specification

### System

Main Processor	64 bit 4 core CPU (CORE-I3-6100)
Operating System	Linux
Power	Support hot swap
Memory	8GB(1×8GB)
Chassis	1.0mm SGCC steel plate

### Interface

Network Port	4 Ethernet Ports (10/100/1000Mbps)
RS232	Reserved
RS485	Reserved
USB Port	Front panel: 2 × USB 3.0, Rear panel: 2 × USB 3.0 onboard panel:1 × USB 2.0
HDMI	2 HDMI, one as network config, another as spare
VGA	1 VGA, as network config
HDD Installation	Built-in 1× 1T HDD disk (2.5") for system Support 3HDD disks (2.5") for Video &Picture storage

### Other

Power	100V ~ 240V, 47 ~ 63Hz
Consumption	70W ~ 120W (with HDD)
Working Environment Temperature	0 C ~ 45 C
Working Environment Humidity	5%~90% (non-condensation)
Storage Environment Temperature	-20 C ~ +70 C
Storage Environment Humidity	5% ~ 90% (non-condensation)
Working Altitude	-60m ~ 3000m
Weight (Without Package)	6.0Kg
Dimension	1U, 440mm×398.6mm×43.65 mm
Installation Method	Standard 19" rack installation

\*1 The maximum number when add only video channels

\*2 The maximum number when add only VDP devices

\*3 The maximum number when add only access control

### Video Management

Video Channels Per Server	512 <sup>1</sup>
Number of Face Recognition Camera	32
ANPR	32
Video Intercom	1024 <sup>2</sup>
Access Control	100 IP, 512 Door <sup>3</sup>
Concurrent User	100 Online Users
Bandwidth of Video Input Per Server	350 Mbps
Bandwidth of Video Output Per Server	350 Mbps
Bandwidth of Video Storage Per Server	150 Mbps