

DHI-DSS4004-S2-W

A Plug-and-Play Surveillance System



Introduction

DSS4004-S2-W is a plug-and-play VMS station that preloads with easy-to-use DSS software and windows10 IoT operating system, and it can support up to 64 network cameras. With 150Mbps recording rate and advanced features, DSS4004-S2-W provides a good-value one-stop solution, which can be popular from one site to multiple sites application where mainly need quick and reliable video surveillance, like the retail shops.

Features

Plug and Play

- Windows OS, pre-activated DSS Express software, storage, decoding and server all in one, zero learning cost
- Auto search to add the devices quickly, easier to deploy the surveillance system

High Flexibility

- Supports 3.5"chassis with up to 2 hot plug hard drives for video storage
- 1U server design can be used as a workstation or rack-mounted appliance
- High storage bandwidth can meet the storage requirements of 32 channels @1080P

High Reliability

- Embedded with SSD for windows OS makes the system more stable
- Long-term stability test makes the hardware, OS and software more compatible
- Backup the database automatically and manually, when something wrong happens, it can recover quickly
- Lock the record to keep evidences in case that it will be rewritten

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

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

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.

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

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.

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

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

Performance Specification

System

Main Processor	64 bit 4 core CPU (CORE-I3-6100)
Operating System	Windows10 IoT
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 video output, another as spare
VGA	1 VGA, as video output
HDD Installation	Built-in 1× 256G SSD disk for system Support 2HDD disks (3.5") 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 access control

Video Management

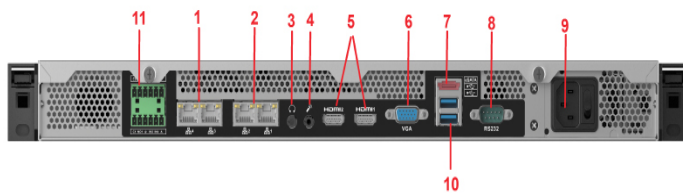
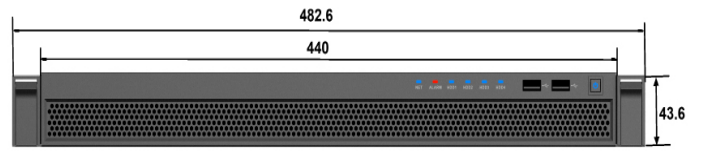
Number of Connected Cameras Per Server	64 ¹
Number of Face Recognition Camera	8
ANPR	8
Access Control	32 IP, 32 Door ²
Concurrent User	10 Online Users
Bandwidth of Video Input Per Server	350 Mbps
Bandwidth of Video Output Per Server	350 Mbps
Bandwidth of Video Storage Per Server	150 Mbps

Physical Interface



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

Dimensions (mm)



- 1- Giga Lan port 3~4
- 2- Giga Lan port 1~2
- 3- Audio output
- 4- Audio input
- 5- HDMI Port1/Port2
- 6- VGA
- 7- ESASA
- 8- RS232
- 9- Port Interface
- 10- USB3.0 Port
- 11- Alarm In&Out

