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 compatibile

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 dewraping
· 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 verfication

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℃~ 45℃
Working Environment Humidity	5%~90% (non-condensation)
Storage Environment Temperature	-20℃~ +70℃
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
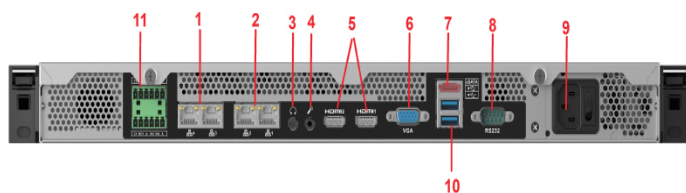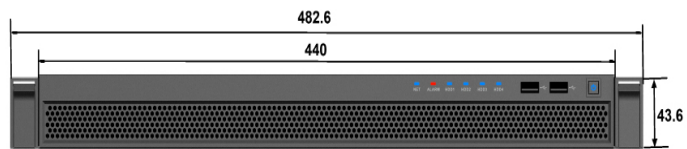
Video Management

Video Channels Per Server	512[1]
Number of Face Recognition Camera	32
ANPR	32
Video Intercom	1024[2]
Access Control	100 IP, 512 Door[3]
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

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Physical Interface

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

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

Dimensions (mm)