

# DHI-DSS4004

## General Surveillance Management Center



### Introduction

DSS4004 is an all-in-one server that is composed of Dahua's video management system (VMS), Operating System and hardware. It is easy to deploy and operate.

DSS4004 provides the best level of support while maintaining an easy-to-use interface for operators and technicians. Features include: user rights management, device management, alarm management, TV wall, 2-way audio talk, access control, video talk, entrance management, alarm controller and other advanced features. Some of the advanced feature support includes: POS Integration with data sync and Intelligent video analysis to aid in event identification (Tripwire, Intrusion, Object Abandonment, Object Missing, People Counting, etc.) and E-Map

### Features

#### System Stability

- Embedded Linux System, C/S Architecture
- Support 7\*24 stable operation
- Support distribute and cascade deployment
- Support hot standby for master server
- Support N+M hot standby for slave server

#### High Compatibility

- All Dahua's devices included: network camera, network speed dome, NVR, DVR, MDVR, ITC, Access control, VDP, Alarm Controller, etc.
- Connect third-party devices via standard ONVIF protocol
- Offer the platform SDK for third-party platform or mobile phone do further development

#### High Flexibility and Scalability

- Up to 20 slave servers can be managed per master server
- Supports up to 5-level cascade
- Supports unlimited accounts management, 50 online users and 100 roles
- Supports 256 IP devices and 256 channels
- Supports 50 Onvif devices
- Supports 100 IP Access Controls or Alarm Controllers and 200 channels

### Main Functions

#### Devices Management

- Manage the devices and users according to the different organizations

#### Users & Authorities

- Assign different camera range, active period and business modules for different user

#### Alarm

- Set the different scheme for different events (include intelligent video analysis events), record
- Push alarm linkage video to the TV Wall
- Alarm links to email, supports Yahoo,Gmail,Hotmai
- Alarm push to different users of DSS mobile APP

#### Emap

- Supports E-map(Google, RasterMap)
- Shows different devices icons in e-map(Google, RasterMap)
- Supports alarm flash in E-map

#### Live Preview & Playback

- Live view, PTZ control, snapshot, instant playback, customized layout
  - Playback the records from the front-end devices or center
  - Normal ,Motion, Alarm, IVS and POS playback
  - Support up to 16 channels sync playback
  - Smart search can find the motion information in assigned region quickly
  - Fisheye Dewarping in live preview or playback
  - Push the real-time video, playback video to the TV Wall
- Business

## **Card Management**

- All-in-one card and fingerprint authority management
- Supports card management for access control and VTO
- Supports entrance ITC authorities management for vehicle plate NO. of cardholders
- Supports unlock password

## **Video Talk**

- 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

## **Access Control**

- Door status monitor
- Open / close the door remotely
- Supports configurations of doors
- Works offline

## **Alarm Controller**

- Alarm Controller status monitor
- Arm & Disarm the defence area of alarm controller
- Defence area bypass
- Supports alarm linkage

## **Entrance Management**

- Open barrier automatically by the license plate recognition
- Open the barrier remotely
- ANPR monitor in the DSS client

## **Mobile**

- Supports adding mobile device by WIFI or 3G/4G network
- Supports displaying GPS, speed, direction of mobile device
- Supports showing device's real-time location, playback device's history location
- Supports alarm of over-speed, entering and leaving the E-FENCE
- Supports statistical report of GPS abnormal, over-speed, e-fence, alarm, device state

## **Business Intelligence**

- View and query the POS transaction information, playback the related video
- Supports to export the report of Heat Map and people counting statistics

**Performance Specification**

## System

Main Processor	64 bit 4 core CPU
Operating System	Embedded Linux
Memory	4GB
Chassis	1.0mm SGCC steel plate

## Interface

Network Port	4 RJ-45 Ports (10/100/1000Mbps)
Ethernet Port	4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports
RS232	Reserved
RS485	Reserved(reusable with alarm port)
Alarm input/output	Reserved(reusable with alarm port)
USB Port	Front panel: 2× USB 3.0, Rear panel: 2 × 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

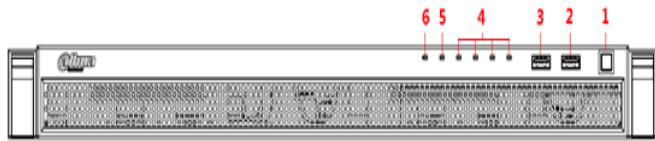
## Video Management

Number of Connected Cameras Per Server	256 IP devices and 256 channels
ONVIF Device	50
Auto-Register	200
Clients Per System	50 Online Users
Numbers of Users	Unlimited
Numbers of Roles	100
Mobile DVR Device	50IP, 200channels
Bandwidth of Video Input per Server	300 Mbps
Bandwidth of Video Output per Server	300 Mbps
Alarm Inputs	20/s (Average), 80/s (Peek)

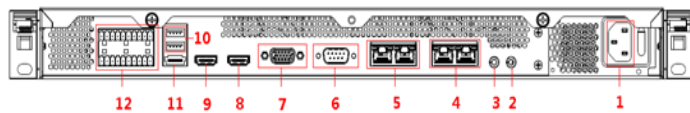
## Other

Power	100V ~ 240V, 47 ~ 63Hz
Consumption	35W ~ 50W (with HDD)
Working Environment Temperature	0 C ~ 50 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)	4.5Kg
Dimension	1U, 440mm×398.6mm×43.6 mm
Installation Method	Standard 19" rack installation

**Physical Interface**



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



- 1- Power Interface
- 2- Audio Output
- 3- Audio Input
- 4- Ethernet Port 1~2
- 5- Ethernet Port 3~4
- 6- RS232 Interconnects
- 7- Video VGA Output
- 8- HDMI1
- 9- HDMI2
- 10- USB2.0x2
- 11- eSATA Interface
- 12- Alarm In & Out

**Dimensions (mm)**

