





Introduction

DSS4004-S2 is a Plug & Play security management platform based on Linux OS and pre-installed DSS software. It provides higher performance in the low-end and mid-end market, offering a reasonably low price for a highly efficient and carefully designed system. In addition, it is easy to be integrated with access control, video intercoms and AI features such as facial recognition, ANPR, and video metadata.

It is suitable for retail stores, vehicle entrance management, and office buildings.

Features



Lower investment

- One-time payment for hardware and whole software capacity.
- Lower price per channel.



High Capacity

Up to 256 cameras, 64 doors, 1,000 video intercoms and 100 TB storage capacity per server.



Unified Platform

All your needs can be addressed directly in DSS 4004-S2 with the comprehensive applications it can provide, including video surveillance, access control, video intercom, face recognition, and ANPR.

Main Functions

Monitoring Center

Live View

With its easy to use live view, you can both customize and control how you view videos in real time. The layout can also be configured to display videos in different sizes, enabling you to give priority to important areas by placing then in larger windows. You can also remotely control certain devices to perform various actions such as talking to people through the camera, and unlocking the barrier of a turnstile to grant access to people. If an emergency occurs, manual recording is just a click away, so that you can quickly save that particular part of the video for evidence.

Playback

The playback function allows you to play recorded videos stored on the server and devices in multiple windows. To help you efficiently wade through tons of videos, you can play them 64X faster than the normal speed, skipping parts that you are not interested in, or you can slow them down to 1/64X, to focus on important sections. To control the data in the videos, you can add tags to mark relevant content, and you can even lock them to prevent them from being overwritten when the disk space is full. The filter function can also be very helpful when you only need to deal with a specific type of video, or a type of target that appeared in one or more areas.

Video Wall

Video wall is used to display videos on a large screen that consists of many smaller screens. Highly customizable, you can not only configure the layout of the video wall, but you can also display recorded videos and real-time videos to zero in on important details in the video. With the task function, you can schedule videos from different channels to be displayed on the video wall at specified times or in a loop.

Map

The map is a very useful function that allows you to keep track of devices and events through their location information. With it, you can mark a device and immediately know the location of an event when the device triggers an alarm and flashes red on the map. You can also add submaps to different areas. For example, a plan view of a public square can be added to a map to reveal the exact location of people who are inside the public square.

DeepXplore

Powered by AI technology, you can easily search for targets, and look for records on them, including snapshots, and recorded videos.

Event Management

You can monitor and process over 200 types of alarms right from the event center. In addition to a selection of predefined alarm types that are triggered by devices, you have the option to create your own alarm, which can be manually triggered to take snapshots, send emails, and more for important events.

Access Management

Access Control

Through the integrated access control system, you can control access within any area directly from DSS4004-S2 by utilizing the access control devices on the platform. You can use it to lock doors remotely, monitor the area around doors, and more. To keep you up to date, the system also keeps complete records of all access control activities.

Video Intercom

All video intercom devices can be managed based on different in one single interface. With two-way communication and remote access control, you have the ability to secure access to your premises. Also, residents will be able to call and report emergencies quickly, allowing you to take immediate actions. To make building management easier, messages that a lot of people should know, such as the electricity will be out for a few hours for maintenance purposes, can be sent to their indoor monitors with only a few steps.

Visitor

DSS4004-S2 offers a complete process to manage visitors, including registration, access permission authorization, and ending visit with all permissions canceled. A complete, detailed record of all visits is available for your review at any time.

Intelligent Analysis

To help build your profits and strengthen your services, the platform provides invaluable information on people on your premises through performing a variety of intelligent analysis and generating heat maps. Through it, you can know the number of people in an area at any given time, where they frequent the most, and precisely when the highest peaks in numbers occurs.

Parking Lot Management

With DSS4004-S2, you can remotely manage your parking lot by customizing the passing rules and monitoring the real-time video from the entrance or exit. Complete records with detailed information of vehicles are generated for your review.

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■ Hardware Specification

Item		Description
	Main Processor	X86 Processor CORE-I3-6100
	Operation System	Embedded Linux
	Memory	8 GB
System	System Disk	Seagate 7200 RPM Enterprise Class HDD 1 TB
	Motherboard	Embedded board (7 x 24)
	Hard Disk Compatibility	SAS/SATA disk
	Power	100 V-240 V, 47-63 Hz
	Consumption	70 W–120 W (with HDD)
	Working Environment Temperature	0 °C-45 °C (32 °F to +113 °F)
	Working Environment Humidity	5%–90% (RH), non-condensing
Other	Storage Environment Temperature	-20 °C to +70 °C (-4 °F to +158 °F)
Other	Storage Environment Humidity	5%–90% (RH), non-condensing
	Working Altitude	-60 m to 3,000 m (-196.85 ft to 9,842.52 ft)
	Weight (Without Package)	6.0 kg (13.23 lb)
	Dimension	1U, 440 mm × 398.6 mm × 43.65 mm (17.32" × 15.69" × 1.72")
	Installation Method	Standard 19-inch pallet mount

■ PC Client System Requirements

Item	Description	
	Recommended	Minimum
СРИ	17-6500@3.20 GHz	I3-2120@3.20 GHz
Memory	8 GB	4 GB
Graphics Card	GeForce® GTX 1060 3GB (Discrete Graphics Card)	Intel ® HD Graphics 530 (Integrated Graphics)
Hard Drive Capacity	100 GB Free	50 GB Free
Ethernet Port	1,000 Mbps	

■ Performance Specification

Organization, Role and User	
Organizations	10 levels; 999 organizations in total
Roles (User Permission)	20
Users	10 online users and 50 total users
Users for VDP Mobile App	200 online users and 2,000 total users

Recording Plan	
General Recording Plans	256
Motion Detection Recording Plans	256

Event	
Event Rules	256

Person and Vehicle Management	
Persons	5,000
Cards	10,000
Faces	5,000
Fingerprints	10,000
Vehicles	5,000

Мар	
Hierarchies	8
Number of Raster Maps	32
Number of Submaps per Map	32
Maximum Size of Raster Map	15 MB
Raster Map Resolution	8,100 × 8,100
Number of Resources per Raster Map	300

Face and Vehicle Watch Lists	
Face Watch Lists	50
Vehicle Watch Lists	8
Total Faces	5,000
Faces per Face Watch List	5,000
Vehicles per Vehicle Watch List	5,000

DSS4004-S2 Datasheet

Intelligent Analysis	
People Counting Groups	4
People Counting Rules per Group	20

Parking Lot Management	
Vehicles	5,000
Vehicle Groups	8
Parking Lots	1
Number of Entrances and Exits	6
Entrance and Exit Points	6

Access Control	
Persons Per Permission Group	5,000
Access Permission Groups	50
Door Groups	50

Notification Center	
Notification Center Messages	1,000

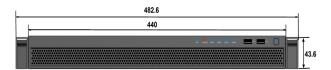
Data Storage	
Events Records	2,000,000
Metadata Records	2,000,000
Face Recognition Records	2,000,000
ANPR Records	2,000,000
Access Control Records	2,000,000
Video Intercom Records	2,000,000
Visitor Records	2,000,000
Entrance Records	2,000,000
Exit Records	2,000,000
Forced Exit Records	2,000,000
Historical Counting Records	2,000,000
In Area Statistical Records	2,000,000
Heat Map Records	2,000,000
Operator Logs	2,000,000
Service Logs	2,000,000

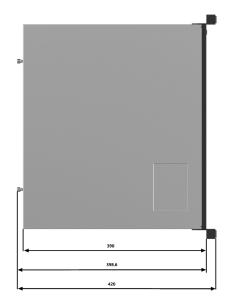
Server Specification

Parameter		Single Server
Table 1	Devices ^①	1,000 devices
Total Devices	Auto-Registered Devices	1,000 devices
Video Devices and Channels	Video Devices and Channels ^②	256 devices; 256 channels
	P2P Devices	32 devices
	Add Devices by ONVIF	256 devices; 256 channels
	ANPR Channels	32 channels
	Face Recognition Devices and Channels	8 devices; 32 channels
	Video Metadata Channels	32 channels
Access Control Devices	Access Control Devices	64 devices; 64 doors
	Video Intercom Devices	1,000 devices
Alarm Devices	Alarm Controllers	16 devices; 64 zones
Intelligent Analysis	People Counting Channels	16 channels
Intelligent Analysis	Heat Map Channels	16 channels
	Total Incoming Bandwidth	350 Mbps
	Incoming Video Bandwidth	350 Mbps
	Incoming Picture	50 Mbps
	Total Outgoing Bandwidth	350 Mbps
Media Transmission Server	Outgoing Video Bandwidth	350 Mbps
	Outgoing Picture Bandwidth	50 Mbps
	Total Storage Bandwidth	350 Mbps
	Video Storage Bandwidth	350 Mbps
	Picture Storage Bandwidth	50 Mbps
Playback, Storage and Download	Maximum Capacity of Central Storage (IPSAN)	100 TB
	Prerecording Bandwidth for Alarm Recordings	150 Mbps
Events ^③	Total Events [®]	60 per second
	Storage of Events or Alarms with Pictures ^⑤	60 per second
	Alarms with Snapshots (Stored on Devices)	60 per second
	Access Control Events	12 per second

- ① The total number of devices must be larger than the total number of video devices, access control devices, video intercom devices and other devices.
- (2) The total number of video devices and channels must be larger than the total number of IPCs, NVRs, ITCs and other video devices and channels.
- 3 Event concurrency is peak concurrency: 20 minutes of peak concurrency test, 3 times a day, and 25% peak concurrency for the remaining time of the day.
- 4 Event concurrency: Event concurrency is in accordance with database concurrent writes. Concurrency of event with pictures must take picture write capacity of the disk into account
- (5) For concurrency of events with pictures, picture write concurrency should also be taken into consideration. The picture write concurrency of an individual server is up to 50 Mbps, so the concurrency of events with pictures is limited by picture write capacity.

Dimensions (mm)

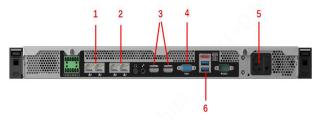




Panels



1- Power Button
2- USB 3.0
3- Alarm Indicator
6- Network Indicator



1- Gigabit LAN Port 3-4 4- VGA

2- Gigabit LAN Port 1-23- HDMI Port1/Port26- USB3.0 Port

DSS Mobile Client Main Functions

DSS Agile

Live View

Even when you are away from your computer, you can also ensure the safety of your area right on DSS Agile. You can watch the real-time videos remotely from up to 16 channels at the same time with 3 stream types for you to choose according to the status of your mobile network. PTZ control is also supported so that you can cover most of the area. When anything of interest happens, you can take snapshots or recordings as evidence that stores on your phone, or send a voice message to deter unwanted activities.

Playback

Videos stored on devices or the server can both be played up to 8X faster or 1/8X slower on DSS Agile. You can also use the manual recording function to record important content and save it to your phone.

Access Control

With DSS Agile, you can remotely monitor and operate all access control devices. For example, you can open a door for someone who has a proven identity, or set a door to be always closed so that no one can access.

Target Tracking

For suspicious activities, you can locate targets directly in DSS Agile by searching for face recognition records from a period, uploading a face image of a specific target, or searching for capture records of people, non-motor vehicles, and motor vehicles by features.

Event

You can receive and process various types of alarms. You can also receive alarms when DSS Agile is not running with a subscription button.

Video Intercom

You can make calls to and receive calls from master stations, indoor monitors and door stations. After subscribing to offline calls, you will still receive calls even when the App is not running. Also, a complete record of incoming and outgoing calls ensure that you will not miss any important message.

File Management

Snapshots and videos stored on devices or the server can be managed as you need, such as deleting them or exporting them to your album.

DSS Agile VDP

Visitor Management

You can easily manage visitors by registering their information and generating visitor passes with necessary access permissions. When they arrive, they can use the passes to gain access to where you are. DSS Agile VDP will log when visitors begin and end their visits.

◆ Intercom Monitoring

When guests arrive, they can call you on the door station or you can verify their identities through the live video. After confirming they are who you are expecting, you can remotely open the door for them directly on DSS Agile VDP. If you spot any unwanted activities, tap and call the management center to report an emergency.

Message Center

The unlock records and alarm messages on the indoor monitor are fully accessible on DSS Agile VDP, allowing you to identify potential threats and ensure the safety of your residence.

■ DSS Mobile Client Requirements

	iOS	Android	
Model	iPhone 5S or later	-	
RAM	-	5 GB and above	
Resolution	-	1280 × 720 or higher	
Operating System	iOS 10.0 or later	Android 5.0 or later	
Language	Arabic, English (United States), French, Russian, Simplified Chinese		