DHI-DSS4004
General Surveillance Management Center

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

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

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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

<table>
<thead>
<tr>
<th>System</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Processor</td>
<td>64 bit 4 core CPU</td>
<td></td>
</tr>
<tr>
<td>Operating System</td>
<td>Embedded Linux</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>4GB</td>
<td></td>
</tr>
<tr>
<td>Chassis</td>
<td>1.0mm SGCC steel plate</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interface</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Port</td>
<td>4 RJ-45 Ports (10/100/1000Mbps)</td>
<td></td>
</tr>
<tr>
<td>Ethernet Port</td>
<td>4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports</td>
<td></td>
</tr>
<tr>
<td>RS232</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td>RS485</td>
<td>Reserved(reusable with alarm port)</td>
<td></td>
</tr>
<tr>
<td>Alarm input/output</td>
<td>Reserved(reusable with alarm port)</td>
<td></td>
</tr>
<tr>
<td>USB Port</td>
<td>Front panel: 2× USB 3.0, Rear panel: 2 × USB 2.0</td>
<td></td>
</tr>
<tr>
<td>HDMI</td>
<td>2 HDMI, one as network config, another as spare</td>
<td></td>
</tr>
<tr>
<td>VGA</td>
<td>1 VGA, as network config</td>
<td></td>
</tr>
<tr>
<td>HDD Installation</td>
<td>Built-in 1× 1T HDD disk (2.5&quot;) for system Support 3HDD disks (2.5&quot;) for Video &amp;Picture storage</td>
<td></td>
</tr>
</tbody>
</table>

### Video Management

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

## Other

<table>
<thead>
<tr>
<th>Power</th>
<th>100V ~ 240V, 47 ~ 63Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumption</td>
<td>35W ~ 50W (with HDD)</td>
</tr>
<tr>
<td>Working Environment Temperature</td>
<td>0 ℃ ~ 50 ℃</td>
</tr>
<tr>
<td>Working Environment Humidity</td>
<td>5%~90% (non-condensation)</td>
</tr>
<tr>
<td>Storage Environment Temperature</td>
<td>-20 ℃ ~ 70 ℃</td>
</tr>
<tr>
<td>Storage Environment Humidity</td>
<td>5% ~ 90% (non-condensation)</td>
</tr>
<tr>
<td>Working Altitude</td>
<td>-60m ~ 3000m</td>
</tr>
<tr>
<td>Weight</td>
<td>4.5Kg</td>
</tr>
<tr>
<td>Dimension</td>
<td>1U, 440mm×398.6mm×43.6 mm</td>
</tr>
<tr>
<td>Installation Method</td>
<td>Standard 19&quot; rack installation</td>
</tr>
</tbody>
</table>
### Physical Interface

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

### Dimensions (mm)

- Front View: 482.6 mm x 440 mm
- Rear View: 390 mm x 398.6 mm x 420 mm

- 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- USB2.0×2  
- 11- eSATA Interface  
- 12- Alarm In & Out

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