

DHI-DSS7016DR

General Surveillance Management Center



Introduction

DSS7016DR is an all-in-one server that is composed of Dahua's video management system (VMS), center storage, Operating System and hardware. It is easy to deploy and operate.

DSS7016DR 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, center storage, TV wall, 2-way audio talk, 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
- Redundant power system
- 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, 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 Scability

- Up to 20 slave server can be managed per master server
- Support up to 5-level cascade
- Up to 200TB per server
- Support unlimited accounts management, 200 online users and 100 roles
- Support 500 IP devices and 2000 channels
- Support 500 devices to auto-Register
- Support 100 Onvif devices
- Support Mobile Surveillance functions models via apply the corresponding License

Powerful Center Storage

- Backup record to center storage
- Up to 15 hard disk and iSCSI expand storage
- Support HDD group modes, different HDD group can be assigned to different camera
- Support Raid 0/1/5/6/10

Main Functions

- Manage the device and user from the different organization
- Assign different camera range, active period and business modules for different user
- Support backup record
- Support edge storage
- Support for specifying a storage disk group for cameras
- Set the different scheme for different events (include intelligent video analysis events), record and view all event history information
- 32-bit/64-bit DSS client.
- 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
- Lock and mark the important records for center storage
- Smart search can find the motion information in assigned region quickly
- Fisheye Dewarping whether live view or playback
- Push the real-time video, alarm linkage video and playback video to the TV Wall
- Statistic people counting and heat map data, export report

- View and query the POS transaction information, playback the related video
- Support Heat Map
- Support GIS map(Google, RasterMap)
- Support Yahoo、Gmail、Hotmail
- Support Chinese, English, Spanish, Arabic, Turkish
- Support Onvif standard protocol connection

Mobile Module Functions

- Support adding IPC, MDVR, MNVR, MPT300 etc. mobile device by WIFI or 3G/4G network
- Support displaying GPS, speed, direction of mobile device
- Support showing device's real-time location, playback device's history location
- Support alarm of over-speed, entering and leaving the E-FENCE
- Support MPT300 group intercom
- Support violation search of MPT300
- Support statistical report of GPS abnormal, over-speed, e-fence, alarm, device state

Performance Specification

System

Main Processor	Intel Core i5, 64 bits 4 Core Processor
Operating System	Embedded Linux
Memory	8GB DDR3
Motherboard	Embedded Board (support 7×24 operation)
Case	Hot-dipped galvanized sheet steel (1.2mm), High-precise aluminum alloy slide, Patented pull-out rack design
Power Supply	Redundant Power Supply

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
USB	Front panel: 2× USB 2.0, Rear panel: 2 × USB 2.0
HDMI	2 HDMI (one as network config, another as spare)
VGA	1 VGA, as network config

Video Management

Number of Connected Cameras Per Server	500 IP devices and 2000 channels
Onvif Device	100
Auto-Register	500 devices 2000 channels
Mobile DVR Devices	200 IP, 800 channels
Clients Per System	200 Online Users
Numbers of Users	Unlimited
Numbers of Roles	100
Bandwidth of Video Input per Server	700 Mbps
Bandwidth of Video Output per Server	700 Mbps
Alarm Inputs	80 alarms per second (all types)

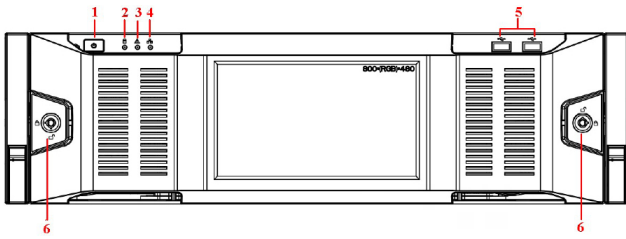
Storage

HDD Installation	Built-in 1×1T HDD disk (3.5") for system Support 15HDD disks (3.5") for Video or Picture storage (Max support 4T HDD)
Storage	Up to 200TB per server
HDD Mode	Single, Raid 0/1/5/6/10
Bandwidth of Video Storage per Server	700 Mbps

Other

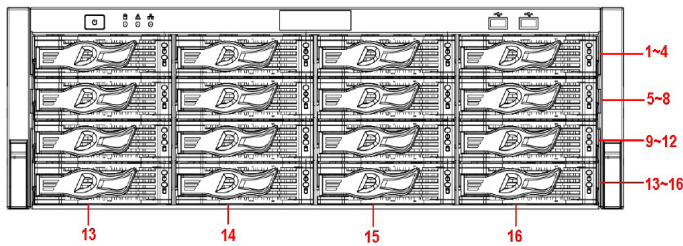
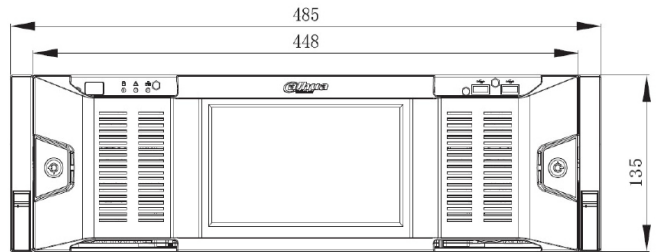
Front Cover	Support Hot-swap 7-inch HD LCD (1920 × 1080, 1280 × 1024, 1024 × 768)
Power	10W ~ 200W(with HDD)
Working Environment Temperature	0°C ~ 50°C
Working Environment Humidity	5% ~ 90% (non-condensation)
Storage Environment Temperature	-20°C ~ +70°C
Storage Environment Humidity	5% ~ 90% (non-condensation)
Working Altitude	-60m ~ 3000m
Weight (Without Package)	20 Kg
Dimension	3U, 532mm×485mm×135mm

Physical Interface

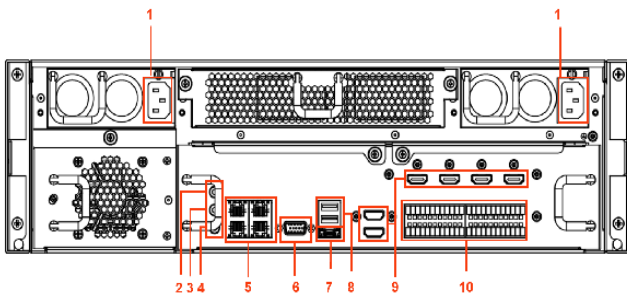
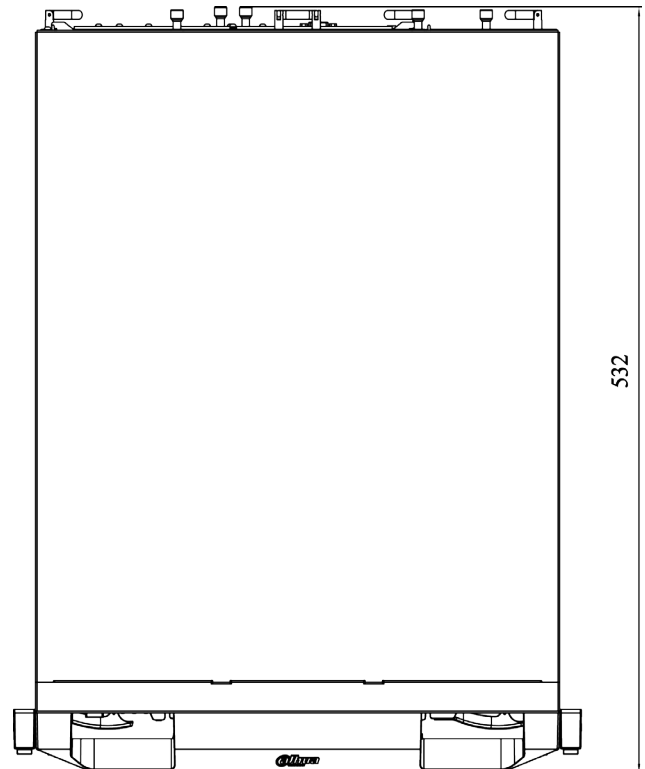


- 1- Power Button
- 2- System HDD Indicator Light
- 3- Alarm Indicator light
- 4- Net Indicator Light
- 5- USB 2.0
- 6- Front Panel Lock

Dimensions (mm)



- 1 System HDD
- 2-16 Storage HDD



- 1- Power Interface
- 2- Audio Input(Reserved)
- 3- Audio Output(Reserved)
- 4- Bidirectional talk input(Reserved)
- 5- Network Interface
- 6- VGA
- 7- eSATA Port(Reserved)
- 8- USB
- 9- HDMI
- 10- Alarm input/alarm output/RS485 port