

# Digital Surveillance System

DSS Pro Video Management System Server with Mobile Device Support



#### **System Overview**

The DSS7016R Video Management System is a powerful, all-in-one video surveillance management system preloaded with Linux-optimized DSS software for system scalability and reliability. The server supports up to 2000 network cameras, 200 online clients, 100 roles, and an unlimited number of users.

The server provides user rights management, device management, alarm management, center storage, TV wall output and, two-way audio. In addition to these VMS features, the server offers advanced features, including POS integration with data sync and the Intelligent System, features not found on many other VMS servers.

#### **Functions**

### Flexibility and Scalability

The DSS7016R VMS Server supports 2000 video channels per server, with support for 512 connected network cameras. The server supports 15 hard disk drives for video and snapshot storage. The server also supports edge storage and extended storage via iSCSI.

#### Compatibility

The VMS server is compatible with all Dahua IP-enabled devices: network cameras, NVRs, DVRs, Mobile DVRs, and access control devices plus many more. The server is also compatible with the ONVIF protocol, so it can connect to ONVIF-enabled third-party devices. The server offers and SDK for further support of third-party platforms and mobile operating systems.

#### Fisheye Camera Support

DSS features full support for Dahua Fisheye cameras. The software supports options for the Fisheye camera installation and eight (8) dewarp modes. Dewarping solves the problem of distortion in the circular panoramic view in both live or playback modes.

- Embedded Linux Operating System with Pre-installed DSS Pro Software
- Redundant Power Supply and Hot Standby for Stable 24/7 Operation
- Supports 512 IP Devices and 2000 Video Channels per Server
- Supports Mobile Devices
- 15 Hot-pluggable Hard Drives and Extended Storage via iSCSI
- Supports GPS Fleet Management for Mobile Solutions
- Live Video Playback
- · Configure Video Wall Layout and Scheme
- · Configure NVR Recording
- Offers Fisheye Camera Dewarping on Live View and Playback Images
- Intelligent Video System with Face Recognition
- Five-year Warranty\*

#### Real-time Face Recognition

The DSS7016R-S2 performs real-time facial recognition on up to 64 channels simultaneously. The server captures and analyzes facial features to determine gender, age, expression, glasses, moustache, and mask, and then can record the faces and store the associated structured data. The server also filters incoming video to display faces that match target features.

#### Intelligent Business Analysis

The DSS supports people counting and heat map; advanced features that add business intelligence to your security system. Intelligent Analysis tracks and stores daily, weekly, monthly, and yearly people flow through a defined scene and stores the data. DSS retrieves this data and supports searching, displaying, and storing the data.

#### Video Wall

DSS offers settings to configure all aspects of a video wall application. The application supports video wall layout, live preview, scheme configuration, and tour setup. In addition, the application supports video wall splicing and roaming.

#### **Management Operations**

The server manages the devices and the user accounts for an entire organization. Operators can assign different camera ranges, active use periods, and business roles for each user. The server also supports different schemes for various events, including IVS, to record and view all event history information.

## Mobile Device Support

The DSS7016R provides for integration and full support of mobile surveillance devices. The server is capable of adding mobile devices via a WiFi or a 3G/4G network and displays the device's real-time location, speed, and direction. The DSS7016R also keeps statistics for abnormal GPS activity, speeding, and entering/exiting a defined location.



Technical Specification		
System		
Main Processor	Intel® Core™ i5-6500, 64-bit Processor	
Operating System	Embedded Linux	
Management Software	DSS, pre-installed	
Memory	8 GB, DDR3	
Motherboard	Embedded	
Hard Disk	Hot-swappable and online replacement SAS and SATA compatible, intermixing allowed	
Power Supply	Redundant Power Supply	
Display		
Mode	Live View, PTZ Control, Snapshot, Instant Playback, Customized Layout	
Video Wall	Push Real-time, Alarm and Playback Video to Wall	
Dewarping	Supported for Fisheye Video on Live View and Playback	
Playback		
Playback	36-channel Synchronized Playback	
Playback Mode	Normal, Motion Detection, Alarm, IVS, POS	
Search Mode	Smart Search, POS Transaction Data and Video	
Storage		
HDD Installation	Built-in 1 TB HDD (2.5-in.) for Operating System Supports 15 HDD (3.5-in.) for video and picture storage	
Storage	8 TB per HDD	
Total Storage Capacity	200 TB, including local, edge and external devices	
HDD Mode	Single, RAID 0/1/5/6/10	
Interface		
Audio	Input: One (1) Channel Output: One (1) Channel	
USB	Front Panel: Two (2) USB 2.0 Ports Rear Panel: Two (2) USB 2.0 Ports	
Display	Two HDMI Ports:  • One (1) as Network Configuration  • One (1) as a Spare Port  One (1) VGA Port, as Network Configuration	

Video Management			
Maximum Connected IP Devices		500	
Maximum IP (	Channels	2000	
Auto Register		500 IP Devices 2000 Channels	
Maximum Connections	Face Recognition Cameras	64 Channels	
	LPC	64 Channels	
	POS Devices	64 Channels	
	ONVIF	100 Devices 200 IP Connections	
	Mobile DVR	800 Channels	
Clients per Sys	stem	200 Simultaneous Users	
Number of Us	ers	Unlimited	
Number of Ro	les	100	
	Video Input	700 Mbps	
Bandwidth, per Server	Video Output	700 Mbps	
	Video Storage	700 Mbps	
Mobile Sup	oport		
Devices		WiFi, 3G/4G Networks	
GPS		Displays location, speed, direction of device	
Functions		<ul> <li>Device location history</li> <li>Speeding alarm</li> <li>Entering/exiting E-Fence</li> <li>Report abnormal GPS data</li> </ul>	
Network			
Network Ports	S	Four (4) RJ-45 Ports (10/100/1000 Mbps)	
Interoperabili	ty	ONVIF, DSS SDK for Integration	
GIS Map		Supported; Google and RasterMap	
Email		Supported; Yahoo, Gmail, HotMail	
Electrical			
Power Supply		100 VAC to 240 VAC, 50/60 Hz	
Power Consur	nption	10 W to 200 W, with HDD	
Environme	ntal		
Operating Cor	nditions	–0° C to +50° C (+32° F to +122° F), 5% to 90% RH, non-condensing	
Storage Conditions		–20° C to +70° C (–4 °F to +158° F), 5% to 90% RH, non-condensing	
Operating Alti	tude	-60.0 m to 3000.0 m (-196.85 ft to 9842.52 ft)	
Construction			
Dimensions		3U, 444.80 mm x 522.40 mm x 133.20 mm (17.51 in. x 20.57 in. x 5.24 in.)	
Net Weight		20.0 kg (44.09 lbs)	
Material		Hot-dipped galvanized sheet steel (1.2 mm), precise aluminum alloy slide, patented pull-out rack design	
Front Cover		7-in. HD LCD Screen (1920 x 1080, 1280 x 1024, 1024 x 768)	
Installation		Standard 19-in. Rack Installation	

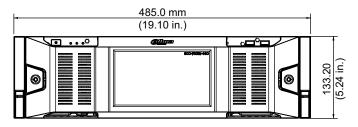
#### Certifications

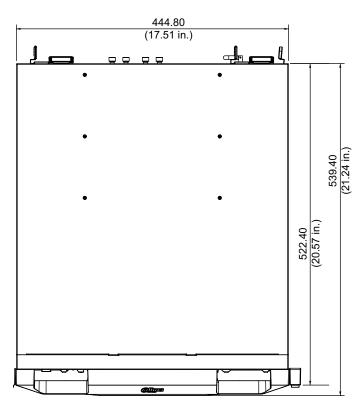
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12: 2011+A2:2013
Electromagnetic Compatibility (EMC)	FCC 47 CFR Part 15 Subpart B EN 55032:2015 EN 55024:2010+A1:2015 EN 50130-4:2011+A1:2014 EN 61000-3-2:2014 EN 61000-3-3:2013

# **Ordering Information**

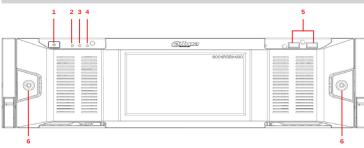
Туре	Part Number	Description	
Digital Surveillance System	DSS7016DR	15 HDD, 512 IP Devices and 2000 Video Channels	

## Dimensions (mm/in.)

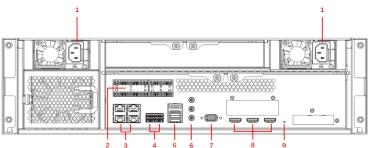




# **Physical Interfaces**



1	Power Button	4	Network Status
2	HDD Status	5	USB 2.0 Ports x 2
3	Alarm Status	6	Lock



1	Power Connection	6	Audio IN and OUT
2	Alarm I/O	7	VGA OUT
3	Gigabit Network Ports, 1 to 4	8	HDMI 1, HDMI 2, HDMI 3 OUT
4	SAS HD1 and SAS HD2	9	Reset Button
5	eSATA and USB 2.0 Ports x 2		

