

DSS Express

Easy-to-Use and Reliable VMS



Introduction

DSS Express is easy-to-use and reliable VMS for single-server installation, which can meet the core requirements of video surveillance in small and mid-sized projects. It can extend the devices by license easily and provide the unified solution with access control, VDP, facial recognition and ANPR for some small and medium organizations. It is the ideal VMS for small and mid-sized projects, such as residences, shops, factories, casinos, etc.

Key Components

Service

- · Central Management Service (CMS)
- · Device Management Service(DMS)
- · Storage Service (SS)
- · Media Transmission Service (MTS)
- · Alarm Dispatch Service(ADS)

Client

- · PC Client
- · Mobile Client

Running Environments

Operating System

• OS for Server:

·Windows Server 2008 Standard / Windows Server 2012
R2 Standard / Windows Server 2016 Standard / VMware
ESXI 6.0(Windows Server 2008 Standard) / VMware ESXI
6.0 (Windows Server 2012 R2 Standard) / VMware ESXI 6.0
(Windows Server 2019 Standard) / Win7 (64bit) / Win10
(64bit)

• OS for Control Client:

Windows Server 2008 Standard / Windows Server 2012
R2 Standard / Windows Server 2016 Standard / VMware
ESXI 6.0(Windows Server 2008 Standard) / VMware ESXI
6.0(Windows Server 2012 R2 Standard) / VMware ESXI
6.0(Windows Server 2019 Standard) / Win7 (32/64bit) /
Win8.1 (64bit) / Win10(64bit)

Hardware

• Hardware for Server

Recommended

CPU	Intel® Xeon® CPU E3-1220 v5 @3.00GHz
Memory	8GB
System Disk	500GB and higher for DSS Express
Ethernet port	4 Ports@1000Mbps
Minimum	
CPU	13-2120
Memory	8GB
System Disk	200GB and higher for DSS Express
Ethernet port	2 Ports@1000Mbps

• Hardware for Control Client

Recommended

CPU	I5-6500@3.20GHz	
Memory	8GB	
Graphics Card	Intel [®] HD Graphics 530	
Hard Drive Capacity	100GB Free	
Ethernet port	1000 Mbps	
Minimum		
CPU	I3-2120@3.20GHz	
Memory	4GB	
Graphics Card	Intel® HD Sandbridge Desktop Gra	
Hard Drive Capacity	50GB Free	
Ethernet port	1000 Mbps	

cameras

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Features	Basic Video Functions
	Live View
Easy to Use	· Displays device tree. Show/hide offline device
\cdot Integrates all the management operations in the client	\cdot Displays the device IP address or device name on the device
\cdot Auto search to add devices quickly in LAN	tree
High Flexibility	· View real-time video
· Benefits from vector icon for different resolution display	· Common layout and custom layout
• GPU decoding to monitor more HD cameras	· PTZ control
High Stability	· Manual recording
• Backup automatically and restore manually in case data lose	· Snapshot
in abnormal situation	· Instant playback
· Locks the record to keep evidence in case that it could be	· Digital zoom
rewritten	· Fisheye dewraping
Tewnitten	· Audio talk
	· Set alarm window
Main Functions	\cdot Turn on/off the audio in live view
•General Functions	\cdot Region of Interest: Divide one window into 4 or 6 parts, one
	shows whole image, others show the detail
Organization Management	\cdot Save the current live view as a view
\cdot Through organization to achieve device group management	· Supports 4 Live View tabs
Device Management	 Supports adding channel to favorite
· Device initialization: Initialize Dahua's device	\cdot Video tour according to device, organization, favorite or view
\cdot Add devices via auto search	· Quickly switch to playback
· Support IP, P2P, Onvif	 Supports NKB to control camera on Live View
· Manage Dahua's devices such as network camera, network	· Switch to playback quickly
speed dome, thermal camera, NVR, DVR, Access Control, etc.	· View map via live view window
User Management	· Smart track for fisheye
· Add, edit and delete the users	\cdot Basic device setting: camera properties, video, audio
• Assign different users with different permissions	Playback
• User can be restricted by the MAC and expiry data	• Playback the record from the edge devices or central storage
Storage	· Video filter: normal, motion, alarm
· Central storage: local disk storage and extend storage via	· Sync play
iSCSI	· Reverse playback
· Add, edit, delete, enable and disable the record plan	· Slow and fast forward (up to 64X and 1/64X)
• Supports edge storage and central storage for record plan	· Playback frame-by-frame
	· Lock or mark the important record for central storage
E-Map	· Supports smart search
· Raster map, main map and submaps	Download Center
· Up to 8-level submap	 Download center Download record from central storage or device
· Add, edit and delete the hot spots (camera, alarm input) on	· Download record by timeline, files or tags
the map	 Supports multi-task download.
· View the live video and playback on the map	• Supports multi-task download. • Supports dav, MP4, flv, asf, and avi format
· Zoom in and zoom out the map	
· Supports visible field	Event Management
\cdot Icon flash on map when alarm is occurring	\cdot Detect the device exception, video events, alarm input,
Bind Resource	access control Events, etc.
\cdot Bind access control channels with the corresponding	· Alarm Scheme: All day template, Weekday template,
	Weekend template and custom template

Weekend template and custom template

DSS Express

· Alarm Priority: Low, Medium, High

· Linkage: record, snapshot, live video, alarm output, PTZ, E-mail, etc.

 \cdot Add, edit, delete, enable and disable alarm scheme

 \cdot Display event alarm info including alarm time, alarm name, alarm status, etc.

- \cdot View the live video or pictures from related camera
- \cdot Acknowledge the event alarm
- \cdot Arming control for event alarm
- \cdot Forward the alarm to relevant user
- \cdot Send alarm e-mail
- \cdot Process the alarm events
- \cdot Search alarm events

•Intelligent Building Functions

Personnel Management

- · Add, edit and delete the person and department
- · Issue the card, fingerprint via USB reader or devices
- \cdot Authorize by door or door group
- \cdot Private password and face authentications

Access Control

- \cdot Door status and door events monitor
- \cdot Door group and door level
- · Access right management
- · One-key to lock/unlock the doors
- · Advanced door rules, such as anti-passback, first card unlock, inter-door lock, multiple card unlock, remote verification
- · Extract record from device

Video Intercom

- · Video intercom between VDP devices based on SIP protocol
- \cdot Video intercom between VDP devices with command center
- \cdot Releases the text information to VTH
- · Address book releases to VTO

Visitor Management

- · Visit Registration
- \cdot Searching Visit Record and Export

Vehicle Entrance

 \cdot Edit parking-lot, includes total and available spaces, parking name etc.

- · Manage owners, vehicles and cards
- \cdot Bind LED screen with ITC or spot detector device
- \cdot Open the barriers via VTO with cards or remotely
- \cdot Force existing vehicles to leave
- \cdot Search and export the historical pass records
- \cdot Supports daily, weekly, monthly, and annual statistics of vehicle entrance

Alarm Controller

 \cdot Display all Alarm controller devices and subsystems under device

- · Arm/Disarm Alarm controller.
- · Arm, Disarm, Cancel Alarm, Normal, Bypass, Isolate In zone or subsystems

•Artificial Intelligence

Facial Recognition

- \cdot Live face
- \cdot Similar face search
- \cdot Feature search
- · Recognition records
- · Structured report of gender and age
- · Face library management
- \cdot Face alarm and event linkage

ANPR

- · Real-time license plate recognition
- · Search history license plate recognition result

Flow Analysis

· Search and export people counting & heatmap report

•System Maintenance

Log

- · Client Operate log
- \cdot Door device log
- \cdot Search and export log

Backup and Restore

- · Backup system data automatically (daily, weekly, monthly)
- · Backup system data manually
- · Restore system data from server or local file

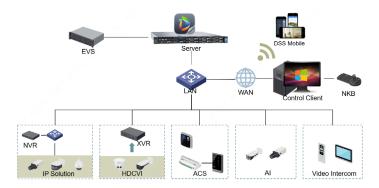
Other Functions

 \cdot Device time calibration, server time calibration

Items		DSS Express
Org. and User	Organization	10 hierarchies, 999 organizations per hierarchy
	User Group	3 Levels
	User	10 online users and unlimited users
Devices (Single Point Performance)	Video	256 Channels
	Access Control	64 IPs, 64 Doors
	VDP Devices	256 Devices (Unit VTO no more than 32)
	Facial Recognition Channels	8
	ANPR Camera	8
Media Transmission Server Video	Video Input per Server	350 Mbps
	Video Output per Server	350 Mbps
Record	Playback Bandwidth per Server (With Recording)	150 Mbps
	Video Storage Bandwidth per Server	150 Mbps
	Maximum Capacity per Storage Server	100TB
	Download Task	UP to 5 per Client
reception without	Number of event reception without Pic	80 per Second
Event	Number of event reception with Pic	5 per Second
Emap	Hierarchy of Raster Map	8 Hierarchies
	Photos of Raster Map	Up to 64 Photos
	Map size of Raster Map	Up to 14.7M
	Channel Number	Up to 200
Personnel	Persons	512
Management	Cards	512
	Fingerprints	512

Performance Specification

Application



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