

DHI-EVS7285S

Dahua 1024CH 4U Embedded Video Storage



- 64-bit high-performance multi-core processor
- Max 1024-ch IP camera inputs
- Max 2048 Mbps incoming/recording/forwarding bandwidth
- 85 bays, SAS/SATA, Hot-Swap
- Supports RAID 0/1/5/6/10/50/60, JRAID, JBOD, Hot spare
- Supports video stream direct storage mode and IPSAN storage mode
- Supports N+M cluster
- Supports Automatic Network Replenishment (ANR)
- Modular and drawer-like design
- 2+1 redundant 80PLUS platinum power supply

Series Overview

The DHI-EVS7285S series provides centralized video storage services for surveillance systems in enterprises. Designed to be highly reliable, this series has a modular and redundant design, incorporating RAID 5/6 technology, a powerful 64-bit multi-core processor, and 16 GB cache that can be expanded to 128 GB. It also comes with N+M hot standby capabilities, which all together make this EVS easy to expand, highly reliable, and allows it to provide strong data security.

Functions

Modular Design

The hard disk and the main controller have a modular hardware design, and key modules such as the fan and power supply have a redundant design that improve the reliability of the overall hardware. The hard disk, fan, power supply and other modules are pluggable, and can be replaced for quick and easy maintenance.

RAID 0/1/5/6/10/50/60

Offering a balance between storage performance, storage capacity, and data integrity, the EVS features fruitful RAID 0/1/5/6/10/50/60 for faster and safer recording.

Automatic Network Replenishment (ANR)

Videos are recorded and saved to the SD card of cameras when the network breaks down. When the network recovers, the videos will be transferred to EVS and then recorded through it.

Scene

Public safety, transportation stations, government institutions, hotel resorts, shopping malls, city centers, and financial institutions.

Technical Specification

System	
Main Processor	64-bit high-performance multi-core processor
Operating System	Embedded Linux OS
Operating Interface	Web (PCAPP)
Controller	Single controller Single controller
Cache	16 GB by default (extendable to 128 GB)

AI Applications

AI by Camera	Face detection, face recognition, IVS (abandoned object, missing object, loitering, crowd gathering, parking, fence-crossing, fast moving, tripwire and intrusion), video metadata (human, vehicle, non-motor vehicle), vehicle recognition, people counting (fisheye or people counting camera required),face & body detection, crowd distribution, smart thermal (call detection, visible channel- smoking detection, thermal channel-smoking detection)
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Camera Compatibility

Thermal	Works with camera for fire alarm, temperature alarm, temperature difference alarm, hot spot, cold spot, smoking and calling
People Counting	Works with camera for tripwire people counting, regional people counting and queue people counting
Bullet-PTZ Smart Track	Works with camera for manual tracking, auto tracking, click positioning and select positioning
Fisheye Dewarp	Supports dewarping for fisheye cameras

Cluster

Cluster	N+M
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Audio and Video

Third-party Camera Access	Onvif,Onvifs,RTSP,Sony,Panasonic,Axis,Arecont,Pelco,Canon,Samsung,Hikvision
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Compression Standard

Video Compression	Smart H.265+;H.265;Smart H.264+;H.264;MJPEG
Audio Compression	G.711a;G.711u;G.729;AAC;G.726;MP2L2;G.7221

Network

Network Protocol	HTTP;HTTPS;TCP/IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;iSCSI;FTP;SMB;NFS;GAT1400
Interoperability	ONVIF (Profile S); CGI; SDK
Browser	Chrome; PCAPP; IE9 or higher; Firefox
Network Mode	Multiple-address mode;Load balance;Fault-tolerance;Link aggregation

Recording Playback

Multi-channel Playback	Max. 16-channel playback
Record Mode	Auto record; manual record; search video detection; IO alarm; thermal imaging; intelligent event; all record file
Storage Method	Internal HDD and network disk
Backup Method	HDD, peripheral USB storage device

Playback Function	1. Play, pause, stop, fast forward, fast backward, reverse play, frame by frame 2. Full-screen, backup (clip; file), snapshot, digital zoom, audio on; off
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Storage

Video Direct Storage (Private Protocol)	Incoming: 1024-channel (bandwidth: 2048 Mbps) Recording: 1024-channel (bandwidth: 2048 Mbps) Outgoing: 1024-channel (bandwidth: 2048 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Video Direct Storage (Onvif)	Incoming: 1024-channel (bandwidth: 2048 Mbps) Recording: 1024-channel (bandwidth: 2048 Mbps) Outgoing: 1024-channel (bandwidth: 2048 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Video Direct Storage (Auto Register)	Incoming: 1024-channel (bandwidth: 2048 Mbps) Recording: 1024-channel (bandwidth: 2048 Mbps) Outgoing: 1024-channel (bandwidth: 2048 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Video Direct Storage (International Protocol)	Incoming: 1024-channel (bandwidth: 2048 Mbps) Recording: 1024-channel (bandwidth: 2048 Mbps) Outgoing: 1024-channel (bandwidth: 2048 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Picture Direct Storage	Incoming: 512-channel (550 KB/picture) Recording: 512-channel (550 KB/picture) Outgoing: 512-channel (550 KB/picture)
Disk Group	Yes
iSCSI	Supports client and Server
Network Disk	Supports client
RAID	RAID0;RAID1;RAID5;RAID6;RAID10;RAID50;RAID60;JRAID
Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based).
Storage Pool	Yes

IPSAN

IPSAN Performance	Write-through: 900 Mbps Write-back: 1200 Mbps
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Alarm

General Alarm	Motion detect; tampering; IPC external alarm
Anomaly Alarm	IPC offline alarm; storage error; HDD full; video frame loss; SSD exception; IP conflict; MAC conflict; login lock; fan malfunction; no HDD; network security exception; power exception; disk health exception; RAID exception; storage pool exception; temperature alarm; share service
Alarm Linkage	Record; snapshot (full image); alarm uploading; remote device alarm output; camera audio; buzzer; log; preset; email, smart tracking and warning light. Disarming alarm linkage action by period or one-click sync disarm config with channels

Port

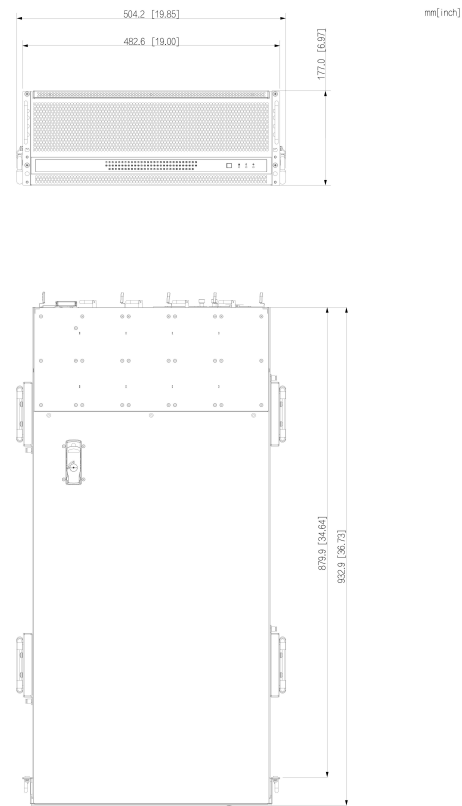
Disk Interface	85 slots, SATA; SAS, Max.20 TB/HDD , hot swapping, CMR, support enterprise-grade HDD
eSATA	1 port
RS-232	1 port, for debug or COM data transmission
USB	2 ports. 2 USB3.0 ports at the rear panel

Network Port	4 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports. (gigabit electrical port) 1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports. (gigabit electrical port)
Power	2+1 redundant power supply
Network Port Extension	2 × 10-GbE optical fiber/Ethernet ports (optional)
General	
Disk Bay	85
Form Factor	4U
Power Supply	100–127/200–240 VAC, 50/60 Hz, 16/8A
Power Consumption	<1600 W (include disks)
Fan	Intelligent speed regulation fan
Net Weight	55.2kg (121.7 lb)
Gross Weight	75kg (165.3 lb)
Product Dimensions	Chassis:446mm x 177mm x 932.9mm (17.56" × 6.96" × 36.73") (W × H × D)
Packaging Dimensions	With packaging:482.6mm x 177mm x 932.9mm (19" × 6.96" × 36.73") (W × H × D)
Operating Temperature	0°C to +40°C
Operating Humidity	10%–80% (RH), non-condensing
Operating Altitude	≤3000m
Installation	Standard 19 inch rack, with slide rail
Certifications	CE: CE-LVD: EN 62368-1/IEC 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130-4, EN 55035 FCC: Part 15 Subpart B

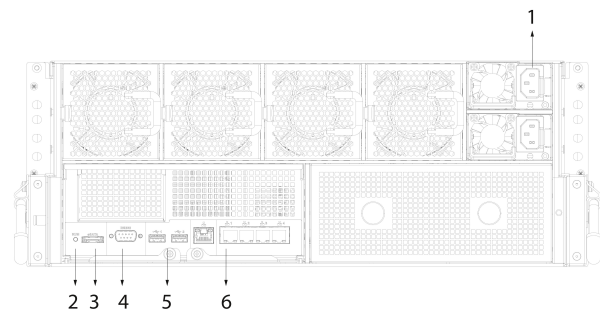
Ordering Information

Type	Model	Description
Embedded Video Storage	DHI-EVS7285S	Dahua 1024CH 4U Embedded Video Storage

Dimensions (mm[inch])



Panels



- 1 Power Input
- 2 Running Indicator
- 3 eSATA Port
- 4 RS-232 Port
- 5 USB Port
- 6 Network Port