

DHI-EVS7275S

Dahua 1024CH 75-bay 4U Embedded Video Storage



- 64-bit high-performance multi-core processor
- Max 1024-ch IP camera inputs
- Max 2048/2048 Mbps incoming/recording/outgoing bandwidth
- 75 bays, SAS/SATA, Hot-Swap
- Supports RAID 0/1/5/6/10/50/60, 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
- 3+1 redundant 80PLUS platinum power supply

Series Overview

The EVS72S Series provides centralized video storage services for surveillance systems in enterprises. This highly reliable series has a modular and redundant design, uses RAID 5/6 technology and offers a 64-bit multi-core processor, 16 GB cache (scalable to 128 GB) and N+M hot standby. Devices in this series are easy to expand, highly reliable, provide data security and perform optimally.

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.

N+M Hot Standby

The highly reliable redundancy N+M Hot Standby design provides a secure, failover technique, ensuring immediate backup. In the event of a system failure, the sub server instantly takes over the main server to ensure no data is lost.

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.

Technical Specification

System

Main Processor	64-bit high-performance multi-core processor
Operating System	Embedded Linux
Operating Interface	Web (PCAPP)
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
High Toss	Works with high-rise littering camera, displays the track of high-rise littering

Cluster

Cluster	N+M
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Audio and Video

Access Channel	1024 channels
Resolution	32 MP;24 MP;16 MP;12 MP;8 MP;6 MP;5 MP;4 MP;3 MP;1080p;720p
Multi-screen Display	Customized display, max 16-channel PCAPP live view
Third-party Camera Access	ONVIF; RTSP; Sony; Panasonic; Axis; Arecont; Pelco; Canon; Samsung; Hikvision

Compression Standard

Video Compression	Smart H.265+;H.265;Smart H.264+;H.264;MJPEG
Audio Compression	G.711a;G.711u;PCM;G.726

Network

Network Protocol	HTTP;HTTPS;TCP/IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;iSCSI;FTP;SMB;NFS;GAT1400
Interoperability	ONVIF (Profile S, T, G); 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	Web: 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	Peripheral eSATA storage device; peripheral USB storage device
Playback Function	1. Play, pause, stop, fast forward, fast backward, reverse play, frame by frame 2. Full-screen, backup (clip and file), snapshot, digital zoom, audio on and off

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)
Picture Direct Storage	Incoming: 360-channel (550 KB/picture) Recording: 360-channel (550 KB/picture) Outgoing: 360-channel (550 KB/picture)
Disk Group	Yes
Network Disk	iSCSI
RAID	RAID0;RAID1;RAID5;RAID6;RAID10;RAID50;RAID60
Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based)
Storage Pool	Yes

IPSAN

IPSAN Performance	320-channel × 2 Mbps video stream writing (I/O size of VMS is 64 KB)
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Alarm

General Alarm	Motion detection; 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; power exception; disk health exception; RAID exception; low quota space; 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; warning light. Supports disarming alarm linkage action by period or synchronizing disarm settings with channels in one click.

Port

Disk Interface	75 slots, SATA and SAS. Max 20 TB/HDD. Supports hot swapping and CMR. Enterprise-grade HDD
RS-232	1 port
USB	2 × USB3.0

VGA	1 port, only for debug
Network Port	1 × 1-GbE management port; 4 × 2.5-GbE LAN port
Power	3+1 redundant power supply
Network Port Extension	4 × 1-GbE LAN ports (optional); 2 × 10-GbE optical fiber ports (optional)

General

Disk Bay	75
Form Factor	4U
Power Supply	100–127/200–240 VAC, 50/60 Hz, 6/3 A (×4)
Power Consumption	Working (all HDDs connected): ≤930 W (3174 BTU/hr) Working (without HDD): ≤150 W (512 BTU/hr) Rated: ≤1650 W (5631 BTU/hr)
Fan	4, Intelligent speed regulation fan
Net Weight	49.7 kg (109.57 lb)
Gross Weight	76.5 kg (168.65 lb)
Product Dimensions	Chassis: 446 mm × 177 mm × 882.9 mm (17.56" × 6.97" × 34.76") (W × D × H) Max size: 482.6 mm (with hanger) × 177 mm × 882.9 mm (19.00" × 6.97" × 34.76") (W × D × H)
Packaging Dimensions	With packaging: 691 mm × 380 mm × 1,126 mm (27.20" × 14.96" × 44.33") (W × H × L) Protection box: 712 mm × 410 mm × 1,147 mm (28.03" × 16.14" × 45.16") (W × H × L)
Operating Temperature	0 °C to +35 °C (+32 °F to +95 °F)
Operating Humidity	10%–90% (RH), non-condensing
Operating Altitude	≤5,000 m (16,404.20 ft)
Installation	Standard 19-inch rack, with rail bracket
Certifications	CE-LVD: EN 62368-1 CE-EMC: EN IEC 61000-3-2, EN 61000-3-3, EN 55032, EN 50130-4, EN 55035

Ordering Information

Type	Model	Description
Embedded Video Storage	DHI-EVS7275S	Dahua 1024CH 75-bay 4U Embedded Video Storage
Accessories (Optional)	TSFP-850-MMF	SFP+ Optical Module
	NIC-EVS7285-10G	0CH Nonstandard Network Card Module

Accessories

Optional:

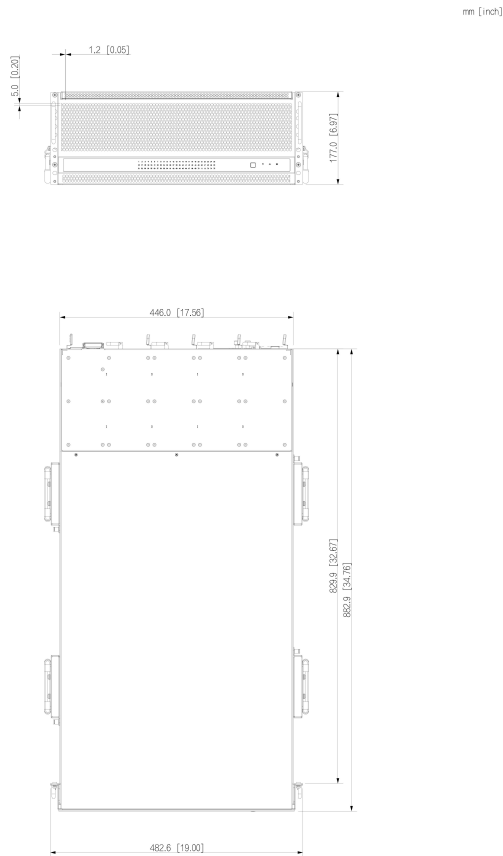


TSFP-850-MMF
SFP+ Optical Module

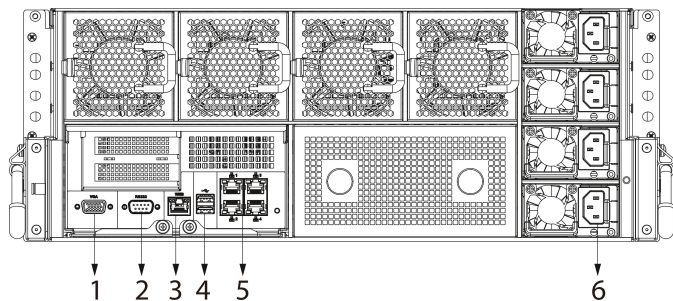


0CH Nonstandard
Network Card Module

Dimensions (mm[inch])



Panels



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|---|--------------------------|---|------------------|
| 1 | VGA Port | 2 | RS-232 Port |
| 3 | Ethernet Management Port | 4 | USB Port |
| 5 | Ethernet Port | 6 | Power Input Port |