

DHI-EVS7248S

Dahua 768CH 48-bay 6U Embedded Video Storage



- 64-bit High-performance multi-core processor
- Max 768-ch IP camera inputs
- Max 1536/1536/1536 Mbps incoming/recording/outgoing bandwidth
- 48 bays, SATA, Hot-Swap
- Supports RAID 0/1/5/6/10/50/60, global and private hot standby
- Supports video stream/picture direct storage mode and IPSAN storage mode
- Supports N+M cluster
- Supports Automatic Network Replenishment (ANR)
- Modular and drawer-like design
- 1+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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Cluster

Cluster	N+M
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Audio and Video

Access Channel	768 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; ONVIFS; 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;IPv6;FTP;UPnP;SNMP;SMB;NFS;GAT1400
Interoperability	ONVIF(Profile S, T and 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	Max. 16-channel playback
Record Mode	Auto record; manual record; search video detection; alarm record
Storage Method	Internal HDD
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 and file); Snapshot; Digital zoom; Audio on and off

Storage

Video Direct Storage (Private Protocol)	Incoming: 768-channel (bandwidth: 1536 Mbps) Recording: 768-channel (bandwidth: 1536 Mbps) Outgoing: 768-channel (bandwidth: 1536 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Video Direct Storage (Onvif)	Incoming: 768-channel (bandwidth: 1536 Mbps) Recording: 768-channel (bandwidth: 1536 Mbps) Outgoing: 768-channel (bandwidth: 1536 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Video Direct Storage (Auto Register)	Incoming: 768-channel (bandwidth: 1536 Mbps) Recording: 768-channel (bandwidth: 1536 Mbps) Outgoing: 768-channel (bandwidth: 1536 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Video Direct Storage (International Protocol)	Incoming: 768-channel (bandwidth: 1536 Mbps) Recording: 768-channel (bandwidth: 1536 Mbps) Outgoing: 768-channel (bandwidth: 1536 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Picture Direct Storage	Incoming: 250-channel (550 KB/picture) Recording: 250-channel (550 KB/picture) Outgoing: 250-channel (550 KB/picture) Playback: 32-channel (550 KB/picture)
Disk Group	Yes
Network Disk	iSCSI
Network Storage	IPSAN (iSCSI)
RAID	RAID0;RAID1;RAID5;RAID6;RAID10;RAID50;RAID60
Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based)
Disk Quota	Time quota mode; space quota mode

IPSAN

IPSAN Performance	360-channel × 2 Mbps video stream writing and 24-channel × 2 Mbps video playback(I/O size of VMS is 64 KB)
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Alarm

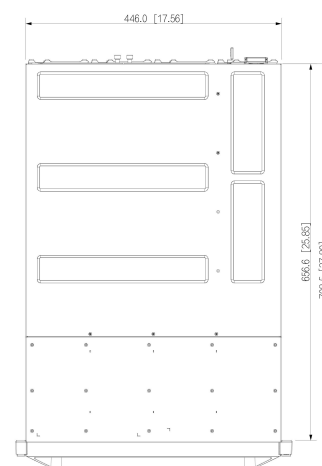
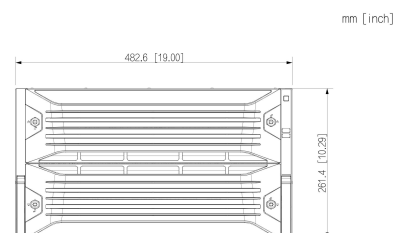
General Alarm	Motion detect; tampering; IPC external alarm
Anomaly Alarm	Offline; no available disks; disk health exception; storage error; low space; storage pool exception; RAID exception; abnormal quota; video frame loss; IP conflict; MAC conflict; abnormal system disk; account lock; fan malfunction; power alarm; temperature alarm; share service
Alarm Linkage	Record; snapshot (full image); buzzer; preset; email; IPC alarm output

Port

Disk Interface	48 slots, SATA. Max 20 TB/HDD. Supports hot swapping and CMR. Enterprise-grade HDD
eSATA	1 port
RS-232	1 port
USB	4 ports. 2 USB2.0 ports at the front panel and 2 USB3.0 ports at the rear panel.
HDMI	1 port, only for debug
VGA	1 port, only for debug
Network Port	1 × 1-GbE management port; 4 × 1-GbE LAN ports
Power	1+1 redundant power supply

Network Port Extension	4 × 1-GbE LAN ports (optional); 2 × 10-GbE optical fiber ports (optional)
General	
Disk Bay	48
Form Factor	6U
Power Supply	100–127/200–240 VAC, 50/60 Hz, 6/3 A (×2)
Power Consumption	Working(without HDD): ≤200 W (682.59 BTU/hr) Working (all HDDs connected): ≤ 500 W (1706.48 BTU/hr) Rated: ≤ 1200 W (4095.56 BTU/hr)
Fan	12, Intelligent speed regulation fan
Net Weight	36.0 kg (79.37 lb)
Gross Weight	75.0 kg (165.35 lb)
Product Dimensions	Chassis: 446 mm × 261.4 mm × 736.5 mm (17.56" × 10.29" × 29.00") (W × H × D) Max. size: 482.6 mm (with hanger) × 261.4 mm × 736.5 mm (19.00" × 10.29" × 29.00") (W × H × D)
Packaging Dimensions	With packaging: 682 mm × 795 mm × 957 mm (26.85" × 31.3" × 37.68") (W × H × L)
Operating Temperature	0 °C to +45 °C (+32 °F to +113 °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 FCC:FCC PART 15 Subpart B

Dimensions (mm[inch])



Ordering Information

Type	Model	Description
Embedded Video Storage	DHI-EVS7248S	Dahua 768CH 48-bay 6U Embedded Video Storage
Accessories (Optional)	NIC-EVS71-10G	OCH Nonstandard Network Card Module

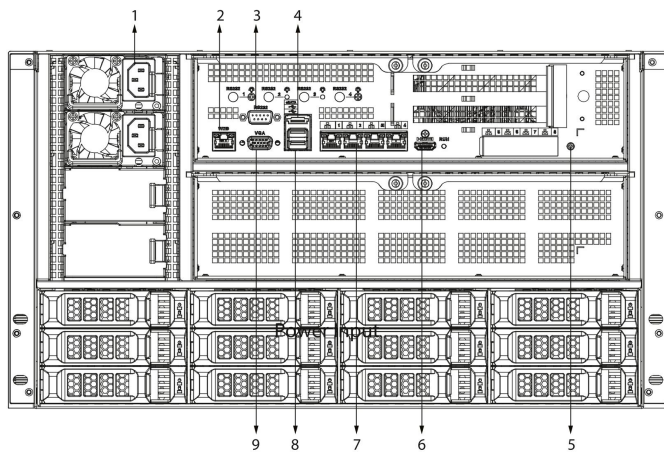
Accessories

Optional:



NIC-EVS71-10G
OCH Nonstandard
Network Card Module

Panels



- | | |
|----------------|----------------------------|
| 1 Power Input | 2 Ethernet Management Port |
| 3 RS-232 Port | 4 eSATA Port |
| 5 Ground | 6 HDMI Port |
| 7 Network Port | 8 USB Port |
| 9 VGA Port | |