

DHI-EVS5124S

Dahua 320CH 24-bay 4U Embedded Video Storage



System Overview

EVS5 Series offers unparalleled storage technology. It is designed and developed to meet the needs of medium-range to high-end IP video surveillance applications. Combined with hot-swap power supplies and hard disk drives, the EVS offers real Enterprise Class availability. This EVS is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.4.

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.

- 64-bit high-performance multi-core processor.
- · Max 320-ch IP camera inputs.
- Max 800 Mbps incoming/recording/forwarding bandwidth.
- 24 HDDs, 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.
- 1+1 redundant 80PLUS platinum power supply.

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 Specificat	tion		1. Play, pause, stop, fast forward, fast backward, reverse
System		Playback Function	play, frame by frame 2. Full-screen, backup (clip; file), snapshot, digital zoom, audio on; off
Main Processor	64-bit high-performance multi-core processor	Storage	
Operating System	Embedded Linux OS	Storage	Incoming: 320-channel (bandwidth: 800 Mbps)
Operating Interface	Web (PCAPP)	Video Direct Storage (Private Protocol)	Recording: 320-channel (bandwidth: 800 Mbps) Outgoing: 320-channel (bandwidth: 800 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Controller	Single controller		Incoming: 320-channel (bandwidth: 800 Mbps)
Cache 8 GB by default (extendable to 64 GB) Al Applications		Video Direct Storage (Onvif)	Recording: 320-channel (bandwidth: 800 Mbps) Outgoing: 320-channel (bandwidth: 800 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Al 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)	Video Direct Storage (Auto Register)	Incoming: 320-channel (bandwidth: 800 Mbps) Recording: 320-channel (bandwidth: 800 Mbps) Outgoing: 320-channel (bandwidth: 800 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
		Video Direct Storage (International Protocol)	Incoming: 320-channel (bandwidth: 800 Mbps) Recording: 320-channel (bandwidth: 800 Mbps) Outgoing: 320-channel (bandwidth: 800 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Camera Compatibility			Incoming: 120-channel (550 KB/picture)
Thermal	Works with camera for fire alarm, temperature alarm, temperature difference alarm, hot spot, cold spot, smoking and calling	Picture Direct Storage	Recording: 120-channel (550 KB/picture) Outgoing: 120-channel (550 KB/picture) Playback: 32-channel (550 KB/picture)
People Counting	Works with camera for tripwire people counting, regional	Disk Group	Yes
reopie Counting	people counting and queue people counting	iSCSI	Supports client and Server
Bullet-PTZ Smart Track	Works with camera for manual tracking, auto tracking, click positioning and select positioning	Network Disk	Supports client
Fisheye Dewarp	Supports dewarping for fisheye cameras	RAID	RAID 0/1/5/6/10/50/60; (with enterprise-grade HDD)
Cluster		Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based).
Cluster	N+M	Storage Pool	Yes
Audio and Video		IPSAN	
Third-party Camera Access	Onvif, Onvifs, RTSP, Sony, Panasonic, Axis, Arecont, Pelco, Canon, Samsung, Hikvision	6,	280-channel × 2 Mbps video stream writing and 24-channel × 2 Mbps video playback (I/O size of VMS
Compression Standard		IPSAN Performance	is 64 KB) 400-channel × 2 Mbps video stream writing and
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG		channel × 2 Mbps video playback (I/O size of VMS is 2 KB)
Audio Compression	G.711A; G.711U; PCM; G726	Alarm	
Network	ATTA LITTLE TONIO DE LA RICOLUMNIA CALTA	General Alarm	Motion detect; tampering; IPC external alarm
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P; GAT1400; ISCSI; FTP; SMB; NFS	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
Mobile Phone Access	DMSS		
Interoperability	ONVIF (Profile S, T and G); CGI; SDK		
Browser	Chrome; PCAPP; IE9 or higher; Firefox		Record; snapshot (full image); alarm uploading; remote device alarm output;
Network Mode	NIC binding mode such as multiple-address mode, load balance, fault-tolerance, link aggregation, etc	Alarm Linkage	camera audio; buzzer; log; preset; email, smart tracking and warning light. Disarming alarm linkage action by period or one-click
Recording Playback			sync disarm config with channels
Multi-channel Playback	Max. 16-channel playback	Port	
Record Mode	Auto record; manual record; search video detection; IO alarm; thermal imaging; intelligent event; all record file	24 slots, SATA Max.18 T/HDD hot swapping CMR	SATA
Storage Method	Internal HDD and network disk		
Backup Method	HDD, peripheral USB storage device		support enterprise-grade HDD
		eSATA	1 port

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RS-232	1 port, for debug or COM data transmission	
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	
Network Port	4 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports. (gigabit electrica port) 1 RJ-45 10/100 Mbps self-adaptive Ethernet ports. (100 Mbps electrical port)	
Power	1+1 redundant power	
Network Port Extension	4×1 -GbE LAN ports (optional) 2×10 -GbE optical fiber ports (optional)	

General

Power Supply	100-240 VAC 50-60 Hz	
Power Consumption	<100 W (without HDD, idling) <300 W (all HDDs connected)	
Fan	Intelligent speed regulation fan	
Net Weight	28.4 kg (62.61 lb)	
Gross Weight	43.5 kg (95.90 lb)	
Product Dimensions	Chassis: 446mm \times 175mm \times 736.5mm (17.56" \times 6.89" \times 29.00") (W \times L \times H) Max. size: 482.6 mm (with hanger) \times 175 mm \times 736.5 mm (19.00" \times 6.89" \times 29.00") (W \times L \times H	
Packaging Dimensions	With packaging: 687 mm \times 962 mm \times 526 mm (27.00" \times 37.87" \times 20.70") (W \times L \times H)	
Operating Temperature	0 °C to 45 °C (+32 °F to +113 °F)	
Operating Humidity	10%–80% (RH), non-condensing	
Operating Altitude	5000 m (16404.20 ft)	
Installation	Standard 19 inch rack	
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B	

Ordering Information Type Model Description 24-bay EVS DHI-EVS5124S 24-bay Embedded Video Storage

Dimensions (mm [inch])



