

DHI-EVS5124S (only for Peru Project)

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 bays, 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	ion		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	0.00.000	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 Al Applications	DDR4 8 GB by default (extendable to 64 GB)	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) Incoming: 320-channel (bandwidth: 800 Mbps)	
		Video Direct Storage (International Protocol)	Recording: 320-channel (bandwidth: 800 Mbps) Outgoing: 320-channel (bandwidth: 800 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)	
Camera Compatibil	ity		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)	
Poonlo Counting	Works with camera for tripwire people counting, regional	Disk Group	Yes	
People 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	67	280-channel × 2 Mbps video stream writing and 24-channel × 2 Mbps video playback (I/O size of VMS is 64 KB) 400-channel × 2 Mbps video stream writing and	
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 720p	IPSAN Performance		
Compression Standa			24-channel × 2 Mbps video playback (I/O size of VMS is 512 KB)	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Alarm		
Audio Compression	G.711A; G.711U; PCM; G726	General Alarm	Motion detect; tampering; IPC external alarm	
Network 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;	
Mobile Phone Access	DMSS			
Interoperability	ONVIF (Profile S, T and G); CGI; SDK		temperature alarm; share service Record; snapshot (full image); alarm uploading; remote	
Browser	Chrome; PCAPP; IE9 or higher; Firefox	Alarm Linkage	device alarm output; camera audio; buzzer; log; preset; email, smart tracking	
Network Mode	NIC binding mode such as multiple-address mode, load balance, fault-tolerance, link aggregation, etc		and warning light. Disarming alarm linkage action by period or one-click sync disarm config with channels	
Recording Playback		Port		
Multi-channel Playback	Max. 16-channel playback		24 slots,	
Record Mode	Auto record; manual record; search video detection; IO alarm; thermal imaging; intelligent event; all record file	HDD Interface Max.20 T/ hot swapp	SATA disk 3.5" Max.20 T/HDD hot swapping	
Storage Method	Internal HDD and network disk		CMR support enterprise-grade HDD	
Backup Method	HDD, peripheral USB storage device	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 × 175mm × 736.5mm (17.56" × 6.89" × 29.00") (W × L × H) Max. size: 482.6 mm (with hanger) × 175 mm × 736.5 mm (19.00" × 6.89" × 29.00") (W × L × 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				
Туре	Model	Description		
24-bay EVS	DHI-EVS5124S	24-bay Embedded Video Storage		

Dimensions (mm [inch])



