

# DHI-EVS5124S

Dahua 320CH 24-bay 4U Embedded Video Storage



- 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.

#### **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.

### 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.

## EVS5 Series | DHI-EVS5124S

Technical Specification			
System			
Main Processor	64-bit high-performance multi-core processor		
Operating System	Embedded Linux OS		
Operating Interface	Web (PCAPP)		
Controller	Single controller		
ache	8 GB by default (extendable to 64 GB)		
AI Applications			
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)		
Camera Compatibility			
hermal	Works with camera for fire alarm, temperature alarm, temperature difference alarm, hot spot, cold spot, smoking and calling		
eople Counting	Works with camera for tripwire people counting, regional people counting and queue people counting		
Illet-PTZ Smart Track	Works with camera for manual tracking, auto tracking, click positioning and select positioning		
sheye Dewarp	Supports dewarping for fisheye cameras		
luster			
uster	N+M		
udio and Video			
ird-party Camera ccess	Onvif, Onvifs, RTSP, Sony, Panasonic, Axis, Arecont, Pelco, Canon, Samsung, Hikvision		
Compression Standard			
ideo Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG		
idio Compression	G.711A; G.711U; PCM; G726		
etwork			
etwork Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P; GAT1400; iSCSI; FTP ; SMB ; NFS		
obile Phone Access	DMSS		
teroperability	ONVIF (Profile S, T and G); CGI; SDK		
rowser	Chrome; PCAPP; IE9 or higher; Firefox		
etwork Mode	NIC binding mode such as multiple-address mode, load balance, fault-tolerance, link aggregation, etc		
ecording Playback			
0 /	Max. 16-channel playback		
Aulti-channel Playback	Max. 16-channel playback Auto record; manual record; search video detection; IO alarm; thermal imaging; intelligent event; all record file		
Aulti-channel Playback	Auto record; manual record; search video detection; IO		

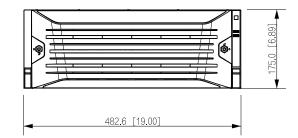
Playback Function	1. Play, pause, stop, fast forward, fast backward, reverse play, frame by frame 2. Full-screen, backup (clip; file), snapshot, digital zoom, audio on; off
Storage	
Video Direct Storage (Private Protocol)	Incoming: 320-channel (bandwidth: 800 Mbps) Recording: 320-channel (bandwidth: 800 Mbps) Outgoing: 320-channel (bandwidth: 800 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Video Direct Storage (Onvif)	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 (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)
Picture Direct Storage	Incoming: 120-channel (550 KB/picture) Recording: 120-channel (550 KB/picture) Outgoing: 120-channel (550 KB/picture) Playback: 32-channel (550 KB/picture)
Disk Group	Yes
iSCSI	Supports client and Server
Network Disk	Supports client
RAID	RAID 0/1/5/6/10/50/60; (with enterprise-grade HDD)
Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based).
Storage Pool	Yes
IPSAN	
IPSAN Performance	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 24-channel × 2 Mbps video playback (I/O size of VMS is 512 KB)
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	
HDD Interface	24 slots, SATA Max.20 T/HDD hot swapping CMR support enterprise-grade HDD
eSATA	1 port

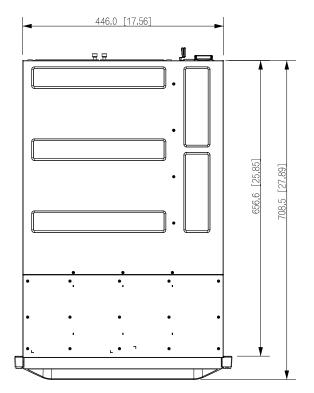
# EVS5 Series | DHI-EVS5124S

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 × 962 mm × 526 mm (27.00" × 37.87" × 20.70") (W × L × 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])





Rev 002.000 © 2024 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.