

# DHI-EVS7124D

# 24-bay Embedded Video Storage



- · Standard dual controller for hardware redundancy.
- 64-bit High-performance multi-core processor.
- · Max 512-ch IP camera inputs.
- Max 1024 Mbps incoming/recording/forwarding bandwidth.
- · 24 HDDs, SAS, Hot-Swap.
- Supports RAID 0/1/5/6/10/50/60, JBOD, global and private hot standby.
- Supports video stream/ Picture direct storage mode and IPSAN storage mode
- · Supports Automatic Network Replenishment (ANR).
- · SAS cascade for expanded storage space.
- · Modular and drawer-like design.
- 1+1 redundant 80PLUS platinum power supply.

#### **System Overview**

EVS7 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 ideal for a wide range of applications such as public safety, transportation stations, government institutions, hotel resorts, shopping malls, city centers, and financial institutions, where demand expansion flexibility, high reliability and centralized storage management.

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.

## **Dual-controller Hot Standby**

A main controller and a standby controller (hardware redundancy) are embedded in the EVS. The standby controller is always active, and will automatically take over when the main controller behaves abnormally. In Active-Active mode, when the real-time transmission service of the standby-controller is enabled, the standby server pulls streams, protecting against video loss when the main-sub switch is in use. Dual-controller Hot Standby.

#### **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.

<b>Technical Specificat</b>	tion	Storage	
System		Video Direct Storage	Incoming: 512-channel (bandwidth: 1024 Mbps) Recording: 512-channel (bandwidth: 1024 Mbps)
Main Processor	64-bit high-performance multi-core processor	(Private Protocol)	Outgoing: 512-channel (bandwidth: 1024 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Operating System	Embedded Linux OS	Video Direct Storage (Onvif)	Incoming: 512-channel (bandwidth: 1024 Mbps) Recording: 512-channel (bandwidth: 1024 Mbps) Outgoing: 512-channel (bandwidth: 1024 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Operating Interface	Web (PCAPP)		
Controller	Dual controllers		Incoming: 512-channel (bandwidth: 1024 Mbps) Recording: 512-channel (bandwidth: 1024 Mbps) Outgoing: 512-channel (bandwidth: 1024 Mbps)
Cache	16 GB by default (extendable to 64 GB)/controller	Video Direct Storage (Auto Register)	
AI Applications		<b>G</b> ,	Playback: 32-channel (bandwidth: 64 Mbps)
	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	Video Direct Storage (International Protocol)	Incoming: 512-channel (bandwidth: 1024 Mbps) Recording: 512-channel (bandwidth: 1024 Mbps) Outgoing: 512-channel (bandwidth: 1024 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)
Canada Canada Hibib	detection)	Disk Group	Yes
Camera Compatibil	·	iSCSI	Supports client and Server
Thermal	Works with camera for fire alarm, temperature alarm, temperature difference alarm, hot spot, cold spot, smoking and calling	Network Disk	Supports client
People Counting	Works with camera for tripwire people counting, regional	RAID	RAID 0/1/5/6/10/50/60; (with enterprise-grade HDD)
Bullet-PTZ Smart Track	works with camera for manual tracking, auto tracking,	Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based).
Eicheve Dewarn	click positioning and select positioning  Supports dewarping for fisheye cameras	Storage Pool	Yes
		IPSAN	
Audio and Video Third-party Camera	Onvif, Onvifs, RTSP, Sony, Panasonic, Axis, Arecont, Pelco,	IPSAN Performance	360-channel × 2 Mbps video stream writing and 24-channel × 2 Mbps video playback ( I/O size of VMS is 64 KB)
Access Canon, Samsung, Hikvision  Compression Standard		Alarm	15 04 ND)
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	General Alarm	Motion detect; tampering; IPC external alarm
Audio Compression	G.711A; G.711U; PCM; G726	deficial Alaim	IPC offline alarm; storage error; HDD full; video frame
Network	d./11/, d./110, r.d./, d/20	Anomaly Alarm	loss; SSD exception; IP conflict; MAC conflict; login locl fan malfunction; no HDD; network security exception; power exception; disk health exception; RAID exceptio storage pool exception; temperature alarm; share service
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P; iSCSI; FTP; SMB; NFS	Allollialy Alalili	
Mobile Phone Access	DMSS	Alarm Linkage	Record; snapshot (full image); alarm uploading; remot device alarm output; camera audio; buzzer; log; preset; email, smart trackir and warning light. Disarming alarm linkage action by period or one-click sync disarm config with channels
Interoperability	ONVIF (Profile S); CGI; SDK		
Browser	Chrome; PCAPP; IE9 or higher; Firefox		
Network Mode	NIC binding mode such as multiple-address mode, load balance, fault-tolerance, link aggregation, etc	Port	
Recording Playback			24 slots, SAS
Multi-channel Playback	Web palyback, max. 16-channel playback	HDD Interface	Max.18 T/HDD hot swapping
Record Mode	Auto record; manual record; search video detection; IO alarm; thermal imaging; intelligent event; all record file		CMR support enterprise-grade HDD
Storage	Internal HDD and network disk	eSATA	1 × eSATA/controller
Backup	HDD, peripheral USB storage device	SAS	2 × SAS (up to 12 Gbps)/controller
Playback Function	Play, pause, stop, fast forward, fast backward, reverse play, frame by frame     Full-screen, backup (clip; file), snapshot, digital zoom,	RS-232	1 × DB9 /controller
		USB	2 × USB3.0 and 2 × USB2.0/controller
	audio on; off	нрмі	1 x HDMI/controller, only for debug

Network Port	$1\mathrm{x}$ 1-GbE management port/controller; $4\mathrm{x}$ 1-GbE LAN ports/controller	
Power	1+1 redundant power	
Network Port Extension	4 × 1-GbE LAN ports/controller (optional) 2×10-GbE optical fiber ports/controller (optional)	
General		
Power Supply	100-127 VAC/200-240 VAC, 50/60 Hz, 5 A/2.5 A	
Power Consumption	<120 W (without HDD, idling) <500 W (all HDDs connected)	
Fan	Intelligent speed regulation fan	
Net Weight	29 kg (63.93 lb)	
Gross Weight	44 kg (97.00 lb)	
Product Dimensions	Chassis: 446 mm × 175mm × 736.5 mm (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) Height: 4U	
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-EVS7124D	24-bay Embedded Video Storage		

## Dimensions (mm [inch])



