

DHI-EVS7124D-V2 24-bay Embedded Video Storage



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

- 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 bays, SAS/SATA, 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.

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.

EVS7 Series | DHI-EVS7124D-V2

Technical Specification System 64-bit high-performance multi-core processor Main Processor **Operating System** Embedded Linux OS **Operating Interface** Web (PCAPP) Controller Dual controllers 16 GB by default (extendable to 64 GB)/controller Cache **AI** Applications 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), AI by Camera 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 Works with camera for fire alarm, temperature alarm, temperature difference alarm, hot spot, cold spot, Thermal smoking and calling Works with camera for tripwire people counting, regional **People Counting** people counting and queue people counting Works with camera for manual tracking, auto tracking, Bullet-PTZ Smart Track click positioning and select positioning Supports dewarping for fisheve cameras Fisheye Dewarp Audio and Video Third-party Camera Onvif, Onvifs, RTSP, Sony, Panasonic, Axis, Arecont, Pelco, Canon, Samsung, Hikvision Access **Compression Standard** Video Compression Smart H.265+; H.265; Smart H.264+; H.264; MJPEG Audio Compression G.711A: G.711U: PCM: G726 Network HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; Network Protocol DHCP; DNS; DDNS; iSCSI; FTP ; SMB ; NFS ONVIF (Profile S); CGI; SDK Interoperability Browser Chrome; PCAPP; IE9 or higher; Firefox NIC binding mode such as multiple-address mode, load Network Mode balance, fault-tolerance, link aggregation, etc **Recording Playback** Multi-channel Playback Web palyback, max. 16-channel playback Auto record: manual record: search video detection: IO Record Mode alarm; thermal imaging; intelligent event; all record file Internal HDD and network disk Storage HDD, peripheral USB storage device Backup 1. Play, pause, stop, fast forward, fast backward, reverse play, frame by frame **Playback Function** 2. Full-screen, backup (clip; file), snapshot, digital zoom, audio on: off

Storage Incoming: 512-channel (bandwidth: 1024 Mbps) Video Direct Storage Recording: 512-channel (bandwidth: 1024 Mbps) Outgoing: 512-channel (bandwidth: 1024 Mbps) (Private Protocol) Playback: 32-channel (bandwidth: 64 Mbps) Incoming: 512-channel (bandwidth: 1024 Mbps) Video Direct Storage Recording: 512-channel (bandwidth: 1024 Mbps) Outgoing: 512-channel (bandwidth: 1024 Mbps) (Onvif) Playback: 32-channel (bandwidth: 64 Mbps) Incoming: 512-channel (bandwidth: 1024 Mbps) Video Direct Storage (Auto Recording: 512-channel (bandwidth: 1024 Mbps) Outgoing: 512-channel (bandwidth: 1024 Mbps) Register) Playback: 32-channel (bandwidth: 64 Mbps) Incoming: 512-channel (bandwidth: 1024 Mbps) Video Direct Storage Recording: 512-channel (bandwidth: 1024 Mbps) (International Protocol) Outgoing: 512-channel (bandwidth: 1024 Mbps) Playback: 32-channel (bandwidth: 64 Mbps) Incoming: 250-channel (550 KB/picture) **Picture Direct Storage** Recording: 250-channel (550 KB/picture) Outgoing: 250-channel (550 KB/picture) Disk Group Yes iSCSI Supports client and Server Network Disk Supports client RAID 0/1/5/6/10/50/60; RAID (with enterprise-grade HDD) Supports record control (continuous, event-based, **Record Management** scheduled, scheduled & event-based). Storage Pool Yes **IPSAN** 360-channel × 2 Mbps video stream writing and **IPSAN** Performance 24-channel × 2 Mbps video playback (I/O size of VMS is 64 KB) Alarm General Alarm Motion detect; tampering; IPC external 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; Anomaly Alarm power exception; disk health exception; RAID exception; storage pool exception; temperature alarm; share service Record; snapshot (full image); alarm uploading; remote device alarm output; camera audio: buzzer: log: preset: email. smart tracking Alarm Linkage and warning light. Disarming alarm linkage action by period or one-click sync disarm config with channels Port 24 slots, SATA; SAS Max.18 T/HDD HDD Interface hot swapping CMR support enterprise-grade HDD eSATA 1 × eSATA/controller SAS 1 × SAS (up to 12 Gbps)/controller RS-232 1 × DB9 /controller 2 x USB3 0 and 2 x USB2 0/controller USB

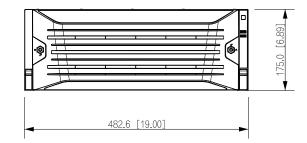
EVS7 Series | DHI-EVS7124D-V2

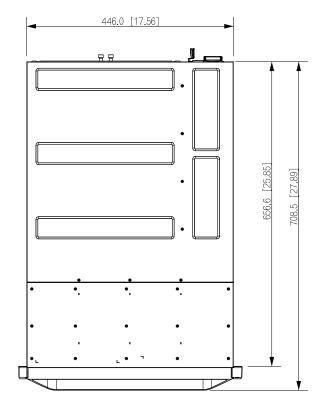
HDMI	1 x HDMI/controller, only for debug	
Network Port	1 x 1-GbE management port/controller; 4 × 1-GbE LAN ports/controller	
Power	1+1 redundant power	
Network Port Extension	4 × 1-GbE LAN ports/controller (optional) 2×10-GbE optical fiber ports/controller (optional)	
General		
Power Supply	100–127 VAC/200–240 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 × 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-EVS7124D-V2	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.