

24-bay Embedded Video Storage

SAS/SATA Hot-swappable, RAID Support



- 64-bit High-performance Multi-core Processor
- 512 Video Input Channels
- 1024 Mbps Incoming/Recording/Forwarding Bandwidth
- 24 HDDs, SAS/SATA, Hot-Swap
- Supports RAID 0/1/5/6/10/50/60, SRAID, JBOD, Hotspare
- Video Stream Direct Storage Mode
- IPSAN Storage Mode
- Supports N+M Cluster
- Automatic Network Replenishment (ANR)
- SAS Cascade for Expanded Storage Space
- Modular Design
- 1 + 1 Redundant 80 PLUS Platinum Power Supply
- Five-year Warranty*

System Overview

The DHI-EVS7124S Embedded Video Storage device offers unparalleled storage technology. It is designed and developed to meet the needs of medium-range to high-end IP video surveillance applications; and supports 512 IP camera channels with 1024 Mbps incoming/recording/forwarding bandwidth.

Combined with hot-swap power supplies, fans, and hard disk drives, the EVS offers Enterprise Class availability. This EVS is ideal for a wide range of applications including public safety, transportation, government institutions, hotels, shopping malls, city centers, and financial institutions that demand flexibility, 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 Enterprise Video Storage is rack mountable and designed to manage up to 512 channels of digital video for scalability. Powered by Intel® technology, the unit features dual redundant power supplies, redundant fans and a hot-swappable configuration to ensure stability.

Storage Extension Capacity

Local extension, connect to ESS extension storage by mini SAS interface. Extension storage support redundant power and RAID.

RAID Support

The Embedded Video Storage device provides the processor and RAID enclosure in one chassis, resulting in both space and cost savings. RAID 0/1/4/5/6/10/50/60 support is available through a hardware-based RAID controller that removes the loading on the processor that software RAID can bring. A convenient web browser interface is used to manage the RAID controller.

Video Recording Capability

The Enterprise Video Storage device not only stores video data but is capable of simultaneous record, playback, live view and transmission of IP video. The device records 512 channels at 2 Mbps plus 256 channels of video transfer.

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 slave instantly takes over the master ensuring no data is lost

Automatic Network Replenishment (ANR) Technology

Video storage devices with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

Interoperability

The EVS conforms to the ONVIF (Open Network Video Interface Forum) and to the CGI specifications, ensuring interoperability between network video products regardless of manufacturer.

Environmental

The storage device features a wide operating temperature range of 0° C to +45° C (+32° F to +113° F) and a working altitude range of 5000 m above (16,404.20 ft) above sea level.



	pecification	1		
System				
Main Processor		64-bit High-performance Multi-core Processor		
Operating System		Embedded LINUX		
User Interface		Web-based		
Controller		Single Controller		
Memory		8 GB by default (expandable to 64 GB)		
Redundant Power		1+1 Redundant Power		
Interface				
SAS		Two (2) Mini-SAS HD Ports, maximum speed 12 Gb/s		
Network Extension		Five (5) Gigabit Data Ports		
eSATA		One (1)		
RS232		One (1) Port, for PC communication and keyboard		
HDMI		One (1) Output Port		
Storage				
Internal HDD		24 Bays		
Прр	Capacity	1 TB, 2 TB, 3 TB, 4 TB, 5 TB, 6 TB, 8 TB, 10 TB, 12 TB, 14 TB, 16 TB		
HDD Compatibility	Size	2.5 in. and 3.5 in. HDD		
	Support	Simultaneous Connection to SATA and SAS		
HDD Installation	n	Independent Rack		
RAID Type		 Single Disk, RAID 0/1/5/6/10/50/60 SRAID JBOD Hotspare 		
Quick RAID Creation		Use RAID immediately after creation		
Quick KAID Crea				
RAID Recreation	n	Dynamic adjustment of RAID recreation speed to ensure system load balance		

HDD Manager		Non-working HDD hibernation facilitates heat dissipation and reduced power consumption to extend HDD life	
Disposal		Supports Bad-track mapping to extend HDD life	
Status Detection		HDD inspection before and during use	
Playback and Backup			
Record Mode		Schedule, Manual, Motion Detection, Alarm	
Record Playback		Web Video Playback, Slice Playback, Synchronous Playback, Record Search by Seconds, Playback Speed Adjustment	
Backup Mode		USB Flash Drive, Network Storage, eSATA Storage	
Camera Support	Encoding	Smart H.265+, H.265, Smart H.264+, H.264, MPEG4, MJPEG, SVAC	
	Lenses	Multi-sensor and Thermal	
	Analytics	Face Detection, Human/Vehicle Detection, Behavior Analysis	

Storage Management

Network Playback

Direct Video Storage			
Private Protocol			
Access, Storage, Forwarding	512 Channels, 1024 Mbps		
Network Playback	32 Channels, 64 Mbps		
ONVIF Protocol			
Access, Storage, Forwarding	512 Channels, 1024 Mbps		
Network Playback	32 Channels, 64 Mbps		
Auto-Register			
Access, Storage, Forwarding	300 Channels, 600 Mbps		
Network Playback	32 Channels, 64 Mbps		
International Protocol			
Access, Storage, Forwarding	512 Channels, 1024 Mbps		

32 Channels, 64 Mbps

Network		
Interface	One (1) Management Port, RJ-45 (10/100/1000 Mbps) Four (4) Data Ports, RJ-45 (10/100/1000 Mbps)	
IPSAN Mode	IPSAN Direct Storage	
IPSAN Function	Dynamic Online Extension of Logical Volumes	
Video Stream Mode	Direct Storage	
Network Mode	Fault-tolerance, Load balance, and other modes	
Network Protocol	RTP, RTCP, RTSP, UDP, HTTP; NTP, SNMP, iSCSI	
Interoperability	ONVIF, GB28181, and others	
N + M	Supported	
Automatic Network Replenishment	Supported	
Smart Phone	IOS, Android	
Interoperability	ONVIF 2.4, CGI Conformant	

Video Storage | DHI-EVS7124S

Electrical		
Power Supply	100 VAC to 240 VAC, 50/60 Hz, 5 A / 2.5 A Hot-swap support	
Power Consumption	< 500 W (with HDD)	
Fan	MTBF: > 100,100 hours, Hot-swap	
Environmental		
Working Conditions	0° C to +45° C (+32° F to +113° F), 10 % to 80% RH	
Storage Conditions	-20° C to +70° C (-4° F to +158° F), 5% to 90% RH	
Working Altitude	up to 5000.0 m (16,404.20 ft)	
Construction		
Chassis	1.20 mm extra-thick, hot-dip galvanized steel, Drawer-like removable HDD bracket	
Dimensions (W x D x H)	4U, 482.60 mm x 494.0 mm x 175.0 mm (19.0 in. x 19.45 in. x 6.89 in.)	
Net Weight	29.0 kg (63.93 lb), without HDD	
Gross Weight	44.0 kg (97.0 lb)	
Installation	Standard 19-in. rack installation	
Certifications		
CE	EN 55024, EN 55032, EN 55035, EN 50130-4, EN 61000-3-2, EN 61000-3-3, EN 62368	

CFR 47 FCC Part 15 Subpart B

Electromagnetic Compatibility

Ordering Information				
Туре	Part Number	Description		
24-HDD Video Storage Device	DHI-EVS7124S	24-HDD Embedded Video Storage		

