

DHI-EVS5016S-V2

16-bay 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 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.

- · 64-bit high-performance multi-core processor.
- · Max 320-ch IP camera inputs.
- · Max 800 Mbps incoming/recording/forwarding bandwidth.
- · 16 HDDs, 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.

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 Specification		Discharle Frankisch	1. Play, pause, stop, fast forward, fast backward, reverse play, frame by frame
System		Playback Function	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	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)
Operating Interface	Web (PCAPP)		
Controller	Single controller	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)
Cache	8 GB by default (extendable to 32 GB)		
mis fer vid Al by Camera veh cor	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-	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)
Camera Compatibility	smoking detection) Works with camera for fire alarm, temperature alarm,	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)
Thermal	temperature difference alarm, hot spot, cold spot, smoking and calling	Disk Group	Yes
People Counting	Works with camera for tripwire people counting, regional people counting and queue people counting	iSCSI	Supports client and Server
Dullet DT7 Concept Tree of	Works with camera for manual tracking, auto tracking,	Network Disk	Supports client
Bullet-PTZ Smart Track Fisheye Dewarp	click positioning and select positioning 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	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)
Compression Standard			
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); CGI; SDK	Alarm Linkage	temperature alarm; share service 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
Browser	Chrome; PCAPP; IE9 or higher; Firefox		
Network Mode	NIC binding mode such as multiple-address mode, load balance, fault-tolerance, etc		
Recording Playback		Port	
Multi-channel Playback	Max. 16-channel playback		16 slots,
Record Mode	Auto record; manual record; search video detection; IO alarm; thermal imaging; intelligent event; all record file	HDD Interface	SATA Max.18 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

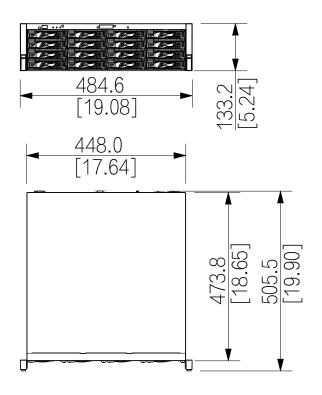
RS-232	1 port, for debug or COM data transmission	
USB	2 ports. 2 USB3.0 ports at the rear panel	
HDMI	1 port, only for debug	
VGA	1 port, only for debug	
Network Port	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports. (gigabit electrica port)	
Power	1 port	
Network Port Extension	4 × 1-GbE LAN ports (optional) 2 × 10-GbE optical fiber ports (optional)	

General

100-240 VAC 50-60 Hz, 6.3A-3.5A	
<60 W (without HDD, idling) <220 W (all HDDs connected)	
Intelligent speed regulation fan	
15.5 kg (34.17 lb)	
17.2 kg (37.92 lb)	
Chassis: 484.6 mm × 133.2 mm × 473.6 mm (19.08" × 5.24" × 18.65") (W × L × H)	
With packaging: $589 \text{mm} \times 619 \text{ mm} \times 290 \text{ mm}$ (23.19" × 24.37" × 11.42") (W × L × H) Protection box: $605 \text{ mm} \times 635 \text{ mm} \times 312 \text{ mm}$ (23.82" × 25.00" × 12.28"") (W × L × H)	
0 °C to 45 °C (+32 °F to +113 °F)	
10%-80% (RH), non-condensing	
5000 m (16404.20 ft)	
Standard 19 inch rack	
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		
16-hay FVS	DHI-EV\$5016\$-V2	16-hay Embedded Video Storage		

Dimensions (mm[inch])



Panels

