

DHI-EVS8248X

Dahua 1024CH 48-bay 6U Embedded Video Storage



- Dual 64-bit High-performance multi-core processor.
- · Max 1024-ch IP camera inputs.
- Max 2048 Mbps incoming/recording/outgoing bandwidth.
- · 48 HDDs, 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).
- · Modular and drawer-like design.
- 2+1 redundant 80PLUS platinum power supply.

System Overview

The EVS82X Series provides centralized video storage services for surveillance systems in enterprises. This highly reliable series has a modular and redundant design, uses RAID 5/6 technology and offers dual 64-bit multi-core processors, 16 GB cache (scalable to 256 GB) and N+M hot standby. Devices in this series are easy to expand, highly reliable, provide data security and perform optimally.

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.

Technical Specification

System

Main Processor	Dual 64-bit high-performance multi-core processor
Operating System	Embedded LINUX OS
Operating Interface	Web (PCAPP)
Controller	Single controller
Cache	16 GB by default (extendable to 256 GB)

Al 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

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Thermal	Works with camera for fire alarm, temperature alarm, temperature difference alarm, hot spot, cold spot, smoking and calling
People Counting	Works with camera for tripwire people counting, regional people counting and queue people counting
Bullet-PTZ Smart Track	Works with camera for manual tracking, auto tracking, click positioning and select positioning
Fisheye Dewarp	Supports dewarping for fisheye cameras
Cluster	
Cluster	N+M
Audio and Video	
Access Channel	1024

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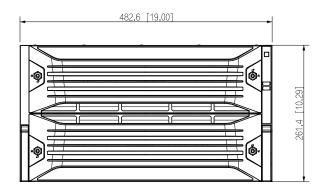
is 64 KB)

Multi-screen Display	Customized display, max 16-channel PCAPP live view	Alarm		
Third-party Camera	ONVIF; RTSP; Sony; Panasonic; Axis; Arecont; Pelco;	General Alarm	Motion detect; tampering; IPC external alarm	
Access Canon; Samsung Compression Standard		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;	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG		low quota space; storage pool exception; temperature alarm; share service	
Audio Compression	G.711A; G.711U; PCM; G726		Record; snapshot (full image); alarm uploading; remote	
Network Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P; ISCSI; FTP; SMB; NFS; UPnP; SNMP; IPv6	Alarm Linkage	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 configuration with channels	
Mobile Phone Access	DMSS	Port		
Interoperability	ONVIF (Profile S); CGI; SDK		48 slots,	
Browser	Chrome; PCAPP; IE9 or higher; Firefox	HDD Interface	SATA; SAS Max.18 T/HDD hot swapping	
Network Mode	Multiple-address mode; Load balance; Fault-tolerance;Link aggregation		CMR support enterprise-grade HDD	
Recording Playback		eSATA	1 port	
Multi-channel Playback	Web playback, max. 16-channel playback	RS-232	1 port	
Record Mode	Auto record; manual record; motion detection; IO alarm	USB	2 × USB3.0 and 2 × USB2.0	
Storage Method	Internal HDD	VGA	1 port, only for debug	
Backup Method	Peripheral eSATA storage device; peripheral USB storage device	Network Port	1×1 -GbE management port; 4×1 -GbE LAN ports	
	1. Play, pause, stop, fast forward, fast backward, reverse play, frame by frame 2. Full-screen, backup (clip; file), snapshot, digital zoom,	Power	2+1 redundant power supply	
Playback Function		Network Port Extension	4×10-GbE optical fiber ports (optional)	
	audio on; off	General	General	
Storage		Disk Bay	48	
Video Direct Storage	Incoming: 1024-channel (bandwidth: 2048 Mbps) Recording: 1024-channel (bandwidth: 2048 Mbps) Outgoing: 1024-channel (bandwidth: 2048 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)	Form Factor	6U	
(Private Protocol)		Power Supply	100-127 VAC/200-240 VAC, 50/60 Hz	
Video Direct Storage	Incoming: 1024-channel (bandwidth: 2048 Mbps) Recording: 1024-channel (bandwidth: 2048 Mbps)	Power Consumption	<170 W (without HDD, idling) <1000 W (all HDDs connected)	
(Onvif)	Outgoing: 1024-channel (bandwidth: 2048 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)	Fan	Intelligent speed regulation fan	
V: 1 - D: - 1 G: /A - 1	Incoming: 1024-channel (bandwidth: 2048 Mbps) Recording: 1024-channel (bandwidth: 2048 Mbps) Outgoing: 1024-channel (bandwidth: 2048 Mbps)	Net Weight	38 kg (83.78 lb)	
Video Direct Storage (Auto Register)		Gross Weight	77 kg (169.76 lb)	
	Playback: 32-channel (bandwidth: 64 Mbps) Incoming: 400-channel (550 KB/picture)	Product Dimensions	737 mm \times 483 mm (with hanger) \times 262 mm (29.02" \times 19.02" \times 10.31") (L \times W \times H)	
Picture Direct Storage	Recording: 400-channel (550 KB/picture) Outgoing: 400-channel (550 KB/picture)	Operating Temperature	0 °C to 45 °C (+32 °F to +113 °F)	
Disk Group	Yes	Operating Humidity	10%–80% (RH), non-condensing	
RAID	RAID0; RAID1; RAID5; RAID6; RAID10; RAID50; RAID60	Operating Altitude	5000 m (16404.20 ft)	
Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based)	Installation	Standard 19 inch rack	
Storage Pool	Yes	Contificati	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	
IPSAN		Certifications		
IPSAN Performance	400-channel × 2 Mbps video stream writing and 24-channel × 2 Mbps video playback (I/O size of VMS			

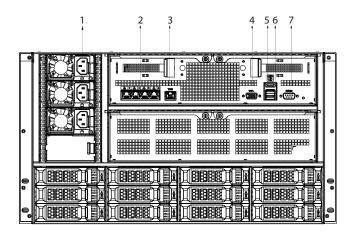
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Ordering Information				
Туре	Model	Description		
Embedded Video Storage	DHI-EVS8248X	Dahua 1024CH 36-bay 4U Embedded Video Storage		

Dimensions (mm [inch])



Panels



- 1 Power Input
- 2 Network Port
- 3 WEB Port
- VGA Port
- 5 eSATA Port
- USB Port
- 7 RS-232 Port

