

EVS5024S-R

24-HDD Enterprise Video Storage



System Overview

EVS5024S-R offers unparalleled storage technology. It is designed and developed to meet the needs of medium-range to high-end IP video surveillance applications. It supports 320 channels of IP camera inputs, and 640 Mbps incoming/recording bandwidth.

Combined with hot-swap power supplies, fans 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

All key modules are hot-swap, redundant configuration. Redundant fans, redundant power, multi-redundant design ensures stability. Brand new design for HDD carrier, ensures good cooling, stability and safety for hard disks.

- Intel Processor
- Max 320 IP Camera Inputs
- Max 640 Mbps Incoming/recording Bandwidth
- · 24 HDDs, SATA, Hot-Swap
- Supports RAID 0/1/5/6/10/50/60/JBOD, Hotspare
- iSCSI and Mini SAS for Expanded Storage Space
- Support standard iSCSI Protocol Storage
- · Modular&Cableless Design
- · Redundant Power

Storage Extension Capacity

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

RAID 0/1/5/6/10/50/60

Offering a balance between storage performance, storage capacity, and data integrity, the NVR features fruitfull 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 slave instantly takes over the master ensuring no data is lost.

ANR (Automatic Network Replenishment Technology)

Video record in SD card in IP cameras when the network breaks down, and after the network recovered, the video will be transferred to NVR and then recorded in it.



Technical Specification		Recording	
System		IP Camera Input	320 Channel
Main Processor	64-bit high-performance Intel processor	Record Rate	640 Mbps
Controller	Single controller	Record Mode	Manual, Schedule(Regular, Continous), Motion Detection, Alarm
Memory	4GB by default	Record Interval	1 ~ 120 min(default 60 min) Pre-record 1 ~ 30 sec, Post-record 10 ~ 300 sec. I frame storage by period.
Operating System	Embedded LINUX	Auxiliary Interface	
User Interface	Web	USB	21/50 2.0
Working Mode			2 USB 3.0
Video Stream Mode	320-channel (640Mbps) incoming and recording , 160-channel (320Mbps) forwarding, 32-channel (64Mbps) playback	eSATA RS232	1 eSATA 1 Port, for PC communication and Keyboard
IP SAN Mode	Storage bandwith ≤2.7Gbps Write-through: 320Mbps; Write-back: 480Mbps	Network	
Storage		Interface	1 management RJ-45 ports (10/100/1000Mbps) 4 data RJ-45 ports (10/100/1000Mbps)
HDD Amount	24 HDDs, Up to 10TB capacity for each HDD SATA HDD composite connection	Network Mode	Multi-address, Fault-tolerance, Load balance, Link aggregation
miniSAS	2 miniSAS ports, for storage extension	Network Function	HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTP, RTCP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E,DDNS, iSCSI, SMB, NFS, FTP, Alarm Server, IP
HDD Installation	Additional HDD bracket, HDD hot-swap, HDD online replacement	Expansion Interface	Search (Support Dahua IP camera, DVR, NVS, etc.) 2 Ten Giga Optical Fiber Interface
HDD Mode	Single, RAID 0/1/5/6/10/50/60(Enterprise-level HDDs are recommended), JBOD, hotspare	Max. User Access	128 users
Storage Management		Smart Phone	iPhone, iPad, Android
	Non-working HDD hibernation to guarantee sound ventilation, reduce power consumption and	Interoperability	ONVIF 2.4, CGI Conformant
HDD Manager	enhance HDD life span HDD bad track mapping to enhance HDD life span	Electrical	
RAID Rebuild	Dynamically adjust RAID rebuild speed to guarantee system load balance	Power Supply	AC100V ~ 240V, 47 ~ 63 Hz 1 + 1 Redundant power, Hot-swap
Logic Volume Manager	Support iSCSI volume management, NAS(SMB/NFS/FTP) volume management	Power Consumption	200W ~ 400W (With HDD)
Snapshot	Support snapshot function, create user volume to back data.	Fan	DC12V, 1.5A, Diameter 80mm MTBF > 100,100 hours, Hot-swap
Extract Frame	Support extracting P frame function. Customizied extracting period and frame rate setup.	Environmental	
Cluster Service	N+M cluster service	Working Conditions	0°C ~ +40°C (+32°F ~ +104°F), 10 % ~ 80% RH
ANR	After diconnection, system can download the record file from the SD card on the network camera to maintain the full record file.	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 5% ~ 90% RH
Shortcut RAID Creation	Click one button to create RAID conveniectly.	Working Altitude	-60m ~ 3000m
Playback and Backup		Construction	
Search Mode	Time/Date, Channel, Alarm, MD and Exact Search (accurate to second)	Chassis	1.2mm extra-thickness hot-dip galvanized steel. High accuracy aluminum alloy slider. Self-developed patent removable HDD bracket.
Playback Function	Play, Pause, Stop, Fast play, Slow play, Full screen, Backup selection, Digital zoom	Dimensions(W x D x H)	4U, 482.6mm x 494.0mm x 175.0mm ;
Backup Mode	USB Device/Network/eSATA Device	Net Weight	(19.0" x 19.4" x 6.9") 27kg (59.5 lb) (without HDD)
Third-party Support		Gross Weight	38kg (83.8 lb)
Third-party Support	Dahua, AEBell, Arecont, AXIS, Dynacolor, HIKVISION, LG, Panasonic, PSIA, Samsung, Sony, Vivotec, and more	Installation	Standard 19-inch rack installation

Certifications

CE	EN55022, EN55024, EN50130-4, EN60950-1
FCC	Part 15 Subpart B, ANSI C63.4-2009
UL	UL 60950-1 and CAN/CSA C22.2 No.60950-1

Ordering Information			
Туре	Part Number	Description	
24-HDD EVS	EVS5024S-R	24-HDD Enterprise Video Storage	
Accessories	ESS3124S-JR	24 HDDs SAS Storage Cabinet	

Accessories



ESS3124S-JR

