

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 512 channels of IP camera inputs, and 1024Mbps 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 512 IP Camera Inputs
- Max 1024Mbps Incoming/recording Bandwidth
- · 24 HDDs, SATA, Hot-Swap
- Supports RAID 0/1/3/4/5/6/10/50/60/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 0/1/3/4/5/6/10/50/60

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	512 Channel
Main Processor	64-bit high-performance Intel processor	Record Rate	1024Mbps
Controller	Single controller	Record Mode	Manual, Schedule(Regular, Continous), Motion Detection, Alarm
Memory	4GB by default(Optional Extension 128GB SSD)	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	2 LICD 2 0
Working Mode			2 USB 3.0
Video Stream Mode	Max 512 channel 1024Mbps for incoming/recording 512Mbps for incoming/recording/forwarding 64 channel(128Mbps) network playback	eSATA RS232	1 eSATA 1 Port, for PC communication and Keyboard
Transfer Mode	4096Mbps front-end connection 4096Mbps network transfer	Network	
IP SAN Mode	Storage bandwidth shall not be less than 2.4Gbps	Interface	1 management RJ-45 ports (10/100/1000Mbps) 4 data RJ-45 ports (10/100/1000Mbps)
Storage		Network Mode	Multi-address, Fault-tolerance, Load balance, Link aggregation
HDD Amount	24 HDDs, Up to 6 TB capacity for each HDD SATA HDD composite connection	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
miniSAS	2 miniSAS ports, for storage extension	Evnancian Interface	Search (Support Dahua IP camera, DVR, NVS, etc.)
HDD Installation	Additional HDD bracket, HDD hot-swap, HDD online replacement	Expansion Interface Max. User Access	2 Giga Optical Fiber Interface 128 users
HDD Mode	Single, RAID 0/1/3/4/5/6/10/50/60(Enterprise-level HDDs are recommended), JBOD, hotspare	Smart Phone	
Storage Management		Interoperability	iPhone, iPad, Android ONVIF 2.4, CGI Conformant
HDD Manager	Non-working HDD hibernation to guarantee sound ventilation, reduce power consumption and enhance HDD life span	Electrical	
	HDD bad track mapping to enhance HDD life span Dynamically adjust RAID rebuild speed to guarantee	Power Supply	AC100V ~ 240V, 47 ~ 63 Hz 1 + 1 Redundant power, Hot-swap
RAID Rebuild	system load balance	Power Consumption	200W ~ 400W (With HDD)
Logic Volume Manager	Support iSCSI volume management, NAS(SMB/NFS/FTP) volume management	Fan	DC12V, 1.5A, Diameter 80mm MTBF > 100,100 hours, Hot-swap
Snapshot	Support snapshot function, create user volume to back data.	5	WITEF > 100,100 Hours, not-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
AND	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
ANR		Working Altitude	-60m ~ 3000m
Shortcut RAID Creation	Click one button to create RAID conveniectly.	Construction	
Playback and Backup		Chassis	1.2mm extra-thickness hot-dip galvanized steel. High accuracy aluminum alloy slider.
Search Mode	Time/Date, Channel, Alarm, MD and Exact Search (accurate to second)	5.13000	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 ; (19.0" x 19.4" x 6.9")
Backup Mode	USB Device/Network/eSATA Device	Net Weight	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

more

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	ESS3116S-JR	16 HDDs SAS Storage Cabinet	
	ESS3124S-JR	24 HDDs SAS Storage Cabinet	

Accessories



ESS3116S-J(R)



ESS3124S-JR

