

EVS7024S-R

24-HDD Enterprise Video Storage



- Intel Processor
- Max 768 IP Camera Inputs
- Max 1536Mbps Incoming/recording Bandwidth
- · 24 HDDs, SAS/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

System Overview

EVS7024S-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 768 channels of IP camera inputs, and 1536Mbps incoming/recording/forwarding 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.

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 Specificati	on	Recording	
System		IP Camera Input	768 Channel
Main Processor	64-bit high-performance Intel processor	Record Rate	1536Mbps
Controller	Single controller	Record Mode	Manual, Schedule(Regular, Continous), Moti Detection, Alarm
Memory	8GB by default(up to 16GB)	Record Interval	1 ~ 120 min(default 60 min) Pre-record 1 ~ 30 sec, Post-record 10 ~ 300 I frame storage by period.
Operating System	Embedded LINUX	Auxiliary Interface	Thanks storage by period.
User Interface	Web	USB	1 USB 3.0
Working Mode		Multiplex Interface	1 USB 2.0 & eSATA multiplex interface
Video Stream Mode	Max 768 channel 1536Mbps for incoming/recording/forwarding 64 channel(128Mbps) network playback	RS232	1 Port, for PC communication and Keyboard
Transfer Mode	4096Mbps front-end connection	RS485	1 Port, for PTZ control
Transfer Wode	4096Mbps network transfer	Alarm	4 Input ports, 4 Output ports
IP SAN Mode	Storage bandwidth shall not be less than 3.6Gbps	Network	
Storage	24 IIDDa IIata CTDitafa	Interface	1 management RJ-45 ports (10/100/1000Ml 4 data RJ-45 ports (10/100/1000Mbps)
HDD Amount	24 HDDs, Up to 8 TB capacity for each HDD SAS/SATA HDD composite connection	Network Mode	Multi-address, Fault-tolerance, Load balance aggregation
miniSAS	2 miniSAS ports, for storage extension		HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTP, R RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter,
HDD Installation	Additional HDD bracket, HDD hot-swap, HDD online replacement	Network Function	PPPoE,DDNS, iSCSI, SMB, NFS, FTP, Alarm Se Search (Support Dahua IP camera, DVR, NVS
HDD Mode	Single, RAID 0/1/3/4/5/6/10/50/60(Enterprise-level HDDs are recommended), JBOD, hotspare	Expansion Interface	2 Giga Optical Fiber Interface
Storage Management		Max. User Access	128 users
	Non-working HDD hibernation to guarantee sound ventilation, reduce power consumption and	Smart Phone	iPhone, iPad, Android
HDD Manager	enhance HDD life span HDD bad track mapping to enhance HDD life span	Interoperability	ONVIF 2.4, CGI Conformant
RAID Rebuild	Dynamically adjust RAID rebuild speed to guarantee system load balance	Electrical	
Logic Volume Manager	Support iSCSI volume management, NAS(SMB/NFS/FTP) volume management	Power Supply	AC100V ~ 240V, 47 ~ 63 Hz 1 + 1 Redundant power, Hot-swap
Snapshot	Support snapshot function, create user volume to back data.	Power Consumption	200W ~ 400W (With HDD)
Extract Frame	Support extracting P frame function. Customizied extracting period and frame rate setup.	Fan	DC12V, 1.5A, Diameter 80mm MTBF > 100,100 hours, Hot-swap
Cluster Service	N+M cluster service	Environmental	
ANR	After diconnection, system can download the record file from the SD card on the network camera	Working Conditions	0°C ~ +40°C (+32°F ~ +104°F), 10 % ~ 80% RF
ANR	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 ~ 5000m
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 s High accuracy aluminum alloy slider. Self-developed patent removable HDD brac
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 14.8" x 5.3")
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	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	EVS7024S-R	24-HDD Enterprise Video Storage		
Accessories	ESS3124S-JR	24 HDDs SAS Storage Cabinet		
Accessories	ESS3148S-JR	48 HDDs SAS Storage Cabinet		

Accessories



ESS3124S-JR



ESS3148S-JR

