

EVS7024S-R

24-HDD Enterprise Video Storage



- Intel Processor
- Max 512 IP Camera Inputs
- Max 1024 Mbps Incoming/recording Bandwidth
- · 24 HDDs, SAS/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

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 512 channels of IP camera inputs, and 1024 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.

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	on	Recording	
System		IP Camera Input	512 Channel
Main Processor	64-bit high-performance Intel processor	Record Rate	1024 Mbps
Controller	Single controller	Record Mode	Manual, Schedule (Regular, Continous), Motion 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 s I frame storage by period.
Operating System	Embedded LINUX	Auxiliary Interface	
User Interface	Web	USB	1 USB 3.0
Working Mode		Multiplex Interface	1 USB 2.0 & eSATA multiplex interface
Video Stream Mode	512-channel (1024 Mbps) incoming and recording , 256-channel (512 Mbps) forwarding, 32-channel (64Mbps) playback	RS232	1 Port, for PC communication and Keyboard
IP SAN Mode	Storage bandwith ≤8Gbps	RS485	1 Port, for PTZ control
ir SAN Mode	Write-through: 480Mbps; Write-back: 640Mbps	Alarm	4 Input ports, 4 Output ports
Storage		Network	
HDD Amount	24 HDDs, Up to 10 TB capacity for each HDD SAS/SATA HDD composite connection	Interface	1 management RJ-45 ports (10/100/1000Mb 4 data RJ-45 ports (10/100/1000Mbps)
miniSAS	2 miniSAS ports, for storage extension	Network Mode	Multi-address, Fault-tolerance, Load balance aggregation
HDD Installation	Additional HDD bracket, HDD hot-swap, HDD online replacement	Network Function	HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTP, R RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE,DDNS, ISCSI, SMB, NFS, FTP, Alarm Se
HDD Mode	Single, RAID 0/1/5/6/10/50/60(Enterprise-level HDDs are recommended), JBOD, hotspare		Search (Support Dahua IP camera, DVR, NVS
Storage Management		Expansion Interface	2 Ten Giga Optical Fiber Interface
HDD Manager	Non-working HDD hibernation to guarantee sound ventilation, reduce power consumption and	Max. User Access	128 users
	enhance HDD life span HDD bad track mapping to enhance HDD life span	Smart Phone	iPhone, iPad, Android
RAID Rebuild	Dynamically adjust RAID rebuild speed to guarantee system load balance	Interoperability	ONVIF 2.4, CGI Conformant
Logic Volume Manager	Support iSCSI volume management, NAS(SMB/NFS/FTP) volume management	Electrical	AC100V ~ 240V, 47 ~ 63 Hz
Snapshot	Support snapshot function, create user volume to back data.	Power Supply	1+1 Redundant power, Hot-swap
Extract Frame	Support extracting P frame function. Customizied	Power Consumption	200W ~ 400W (With HDD)
Cluster Service	extracting period and frame rate setup. N+M cluster service	Fan	DC12V, 1.5A, Diameter 80mm MTBF > 100,100 hours, Hot-swap
cluster service		Environmental	
ANR	After diconnection, system can download the record file from the SD card on the network camera to maintain the full record file.	Working Conditions	0°C ~ +40°C (+32°F ~ +104°F), 10 % ~ 80% RH
Shortcut RAID Creation	Click one button to create RAID conveniectly.	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 5% ~ 90% RH
Playback and Backup		Working Altitude	-60m ~ 5000m
Search Mode	Time/Date, Channel, Alarm, MD and Exact Search	Construction	
Playback Function	(accurate to second) Play, Pause, Stop, Fast play, Slow play, Full screen, Backup selection, Digital zoom	Chassis	 2mm extra-thickness hot-dip galvanized st High accuracy aluminum alloy slider. Self-developed patent removable HDD brack
Backup Mode	USB Device/Network/eSATA Device	Dimensions (W \times D \times H)	4U, 482.6mm x 494.0mm x 175.0mm ; (19.0" x 14.8" x 5.3")
Third-party Support		Net Weight	27kg (59.5 lb) (without HDD)
Third-party Support	Dahua, AEBell, Arecont, AXIS, Dynacolor, HIKVISION, LG, Panasonic, PSIA, Samsung, Sony, Vivotec, and	Gross Weight	38kg (83.8 lb)
mira-party support	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	EVS7024S-R	24-HDD Enterprise Video Storage		
Accessories	ESS3124S-JR	24 HDDs SAS Storage Cabinet		

Accessories



ESS3124S-JR

