

EVS5016S

16-HDD Enterprise Video Storage



- Intel Processor
- Max 320 IP Camera Inputs
- Max 640Mbps Incoming/recording Bandwidth
- 16 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

System Overview

EVS5016S 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 640Mbps incoming/recording bandwidth.

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

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 sub server instantly takes over the main server to ensure 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	640Mbps	
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.	
Operating System	Embedded LINUX		I frame storage by period.	
User Interface	Web	Auxiliary Interface		
Working Mode		USB	1 USB 3.0	
Video Stream Mode	320-channel (640Mbps) incoming and recording , 160-channel (320Mbps) forwarding, 32-channel (64Mbps) playback	Multiplex Interface	1 USB 2.0 & eSATA multiplex interface 1 Port, for PC communication and Keyboard	
	Storage bandwith ≤2.7Gbps		,	
IP SAN Mode	Write-through: 320Mbps; Write-back: 480Mbps	Network		
Storage		Interface	2 data RJ-45 ports (10/100/1000Mbps)	
HDD Amount	16 HDDs, Up to 10TB capacity for each HDD SATA HDD composite connection	Network Mode	Multi-address, Fault-tolerance, Load balance, Link aggregation	
miniSAS	1 miniSAS ports, for storage extension	Network Function	HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTP, RTCP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, iSCSI, SMB, NFS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.)	
HDD Installation	Additional HDD bracket, HDD hot-swap, HDD online replacement	Max. User Access	128 users	
HDD Mode	Single, RAID 0/1/5/6/10/50/60(Enterprise-level HDDs are recommended), JBOD, hotspare	Smart Phone	iPhone, iPad, Android	
Storage Management		Interoperability	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	
RAID Rebuild	system load balance	Power Consumption	< 200W (With HDD)	
Logic Volume Manager	Support iSCSI volume management, NAS(SMB/NFS/FTP) volume management	Environmental		
Snapshot	Support snapshot function, create user volume to back data.	Working Conditions	$0^{\circ}\text{C} \simeq +40^{\circ}\text{C} \text{ (+32°F} \simeq +104^{\circ}\text{F), } 10 \% \simeq 80\% \text{ RH}$	
Extract Frame	Support extracting P frame function. Customizied extracting period and frame rate setup.	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 5% ~ 90% RH	
Cluster Service	N+M cluster service	Working Altitude	-60m ~ 3000m	
ANR	After diconnection, system can download the record file from the SD card on the network camera to maintain the full record file.	Construction		
Shortcut RAID Creation	Click one button to create RAID conveniectly.	Chassis	 2.2mm extra-thickness hot-dip galvanized steel. High accuracy aluminum alloy slider. Self-developed patent removable HDD bracket. 	
Playback and Backup		Dimensions(W x D x H)	3U, 484.6mm x 473.6mm x 133.2mm; (19.1" x 18.6" x 5.2")	
Search Mode	Time/Date, Channel, Alarm, MD and Exact Search (accurate to second)	Net Weight	10kg (22.0 lb) (without HDD)	
Playback Function	Play, Pause, Stop, Fast play, Slow play, Full screen, Backup selection, Digital zoom	Gross Weight	15kg (33.1 lb)	
Backup Mode	USB Device/Network/eSATA Device	Installation	Standard 19-inch rack installation	
Third-party Support		Certifications	Certifications	
Third-party Support	Dahua, AEBell, Arecont, AXIS, Dynacolor, HIKVISION, LG, Panasonic, PSIA, Samsung, Sony, Vivotec, and more	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	

EVS5016S

Ordering Information			
Туре	Part Number	Description	
16-HDD EVS	EVS5016S	16-HDD Enterprise Video Storage	

Accessories

