

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 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.



EVS5016S

Technical Specification

System		
Main Processor	64-bit high-performance Intel processor	
Controller	Single controller	
Memory	4GB by default	
Operating System	Embedded LINUX	
User Interface	Web	
Working Mode		
Video Stream Mode	320-channel (640Mbps) incoming and recording , 160-channel (320Mbps) forwarding, 32-channel (64Mbps) playback	
IP SAN Mode	Storage bandwith ≤2.7Gbps Write-through: 320Mbps; Write-back: 480Mbps	
Storage		
HDD Amount	16 HDDs, Up to 10TB capacity for each HDD SATA HDD composite connection	
miniSAS	1 miniSAS ports, for storage extension	
HDD Installation	Additional HDD bracket, HDD hot-swap, HDD online replacement	
HDD Mode	Single, RAID 0/1/5/6/10/50/60(Enterprise-level HDDs are recommended), JBOD, hotspare	
Storage Management		
HDD Manager	Non-working HDD hibernation to guarantee sound ventilation, reduce power consumption and enhance HDD life span HDD bad track mapping to enhance HDD life span	
RAID Rebuild	Dynamically adjust RAID rebuild speed to guarantee system load balance	
Logic Volume Manager	Support iSCSI volume management, NAS(SMB/NFS/ FTP) volume management	
Snapshot	Support snapshot function, create user volume to back data.	
Extract Frame	Support extracting P frame function. Customizied extracting period and frame rate setup.	
Cluster Service	N+M cluster service	
ANR	After diconnection, system can download the record file from the SD card on the network camera to maintain the full record file.	
Shortcut RAID Creation	Click one button to create RAID conveniectly.	
Playback and Backup		
Search Mode	Time/Date, Channel, Alarm, MD and Exact Search (accurate to second)	
Playback Function	Play, Pause, Stop, Fast play, Slow play, Full screen, Backup selection, Digital zoom	
Backup Mode	USB Device/Network/eSATA Device	
Third-party Support		
Third-party Support	Dahua, AEBell, Arecont, AXIS, Dynacolor, HIKVISION, LG, Panasonic, PSIA, Samsung, Sony, Vivotec, and more	

Recording	
IP Camera Input	320 Channel
Record Rate	640Mbps
Record Mode	Manual, Schedule(Regular, Continous), Motion Detection, Alarm
Record Interval	1 ~ 120 min(default 60 min) Pre-record 1 ~ 30 sec, Post-record 10 ~ 300 sec. I frame storage by period.
Auxiliary Interface	
USB	1 USB 3.0
Multiplex Interface	1 USB 2.0 & eSATA multiplex interface
RS232	1 Port, for PC communication and Keyboard
Network	
Interface	2 data RJ-45 ports (10/100/1000Mbps)
Network Mode	Multi-address, Fault-tolerance, Load balance, Link aggregation
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.)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, CGI Conformant
Electrical	
Power Supply	AC100V ~ 240V, 47 ~ 63 Hz
Power Consumption	< 200W (With HDD)
Environmental	
Working Conditions	0°C ~ +40°C (+32°F ~ +104°F), 10 % ~ 80% RH
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 5% ~ 90% RH
Working Altitude	-60m ~ 3000m
Construction	
Chassis	1.2mm extra-thickness hot-dip galvanized steel. High accuracy aluminum alloy slider. Self-developed patent removable HDD bracket.
Dimensions(W x D x H)	3U, 484.6mm x 473.6mm x 133.2mm ; (19.1" x 18.6" x 5.2")
Net Weight	10kg (22.0 lb) (without HDD)
Gross Weight	15kg (33.1 lb)
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

EVS5016S

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

Accessories

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