

EVS5016S-R

16-HDD Enterprise Video Storage



- Intel Processor
- Max 512 IP Camera Inputs
- Max 1024Mbps Incoming/recording Bandwidth
- 16 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

System Overview

EVS5016S-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.

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 0/1/3/4/5/6/10/50/60

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	Record Interval	1~120 min(default 60 min) Pre-record 1~30 sec, Post-record 10~300 sec.
Operating System	Embedded LINUX	A iliam . Intanfaas	I frame storage by period.
User Interface Web		Auxiliary Interface	
Working Mode		USB	1 USB 3.0
Video Stream Mode	Max 512 channel 1024Mbps for incoming/recording 512Mbps for incoming/recording/forwarding 64 channel(128Mbps) network playback	Multiplex Interface	1 USB 2.0 & eSATA multiplex interface 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	2 data RJ-45 ports (10/100/1000Mbps)
Storage		Network Mode	Multi-address, Fault-tolerance, Load balance, Link aggregation
HDD Amount	16 HDDs, Up to 8 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, PPPoE, DDNS, iSCSI, SMB, NFS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.)
miniSAS	1 miniSAS ports, for storage extension	Max. User Access	128 users
HDD Installation	Additional HDD bracket, HDD hot-swap, HDD online replacement	Smart Phone	iPhone, iPad, Android
HDD Mode	Single, RAID 0/1/3/4/5/6/10/50/60(Enterprise-level HDDs are recommended), JBOD, hotspare	Interoperability	ONVIF 2.4, CGI Conformant
Storage Management		Electrical	
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	Power Supply	AC100V ~ 240V, 47 ~ 63 Hz, 1 + 1 Redundant powe
DAID Dabuild	Dynamically adjust RAID rebuild speed to guarantee	Power Consumption	< 200W (With HDD)
RAID Rebuild Logic Volume Manager	system load balance Support iSCSI volume management, NAS(SMB/NFS/	Environmental	
	FTP) volume management Support snapshot function, create user volume to	Working Conditions	0°C ~ +40°C (+32°F ~ +104°F), 10 % ~ 80% RH
Snapshot	back data.	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 5% ~ 90% RH
Extract Frame	Support extracting P frame function. Customizied extracting period and frame rate setup.	Working Altitude	-60m ~ 3000m
Cluster Service	N+M cluster service	Construction	
ANR	After diconnection, system can download the record file from the SD card on the network camera to maintain the full record file.	Chassis	1.2mm extra-thickness hot-dip galvanized steel. High accuracy aluminum alloy slider. Self-developed patent removable HDD bracket.
Shortcut RAID Creation	Click one button to create RAID conveniectly.	Dimensions(W x D x H)	3U, 484.6mm x 473.6mm x 133.2mm ; (19.1" x 18.6" x 5.2")
Playback and Backup		Net Weight	11kg (24.3 lb) (without HDD)
Search Mode	Time/Date, Channel, Alarm, MD and Exact Search (accurate to second)	Gross Weight	16kg (35.3 lb)
Playback Function	Play, Pause, Stop, Fast play, Slow play, Full screen, Backup selection, Digital zoom	Installation	Standard 19-inch rack installation
Backup Mode	USB Device/Network/eSATA Device		Standard 15-monrack HStdlidtion
Third-party Support		Certifications	
Third-party Support	Dahua, AEBell, Arecont, AXIS, Dynacolor, HIKVISION, LG, Panasonic, PSIA, Samsung, Sony, Vivotec, and	FCC	EN55022, EN55024, EN50130-4, EN60950-1 Part 15 Subpart B, ANSI C63.4-2009
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EVS5016S-R

Ordering Information			
Туре	Part Number	Description	
16-HDD EVS	EVS5016S-R	16-HDD Enterprise Video Storage	
Accessories	ESS3116S-JR	16 HDDs SAS Storage Cabinet	

Accessories



ESS3116S-J(R)

