

EVS5016S-R

16-HDD Enterprise Video Storage



- Intel Processor
- Max 320 IP Camera Inputs
- Max 640 Mbps 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 320channels 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 0/1/3/4/5/6/10/50/60

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	320 Channel
Main Processor	64-bit high-performance Intel processor	Record Rate	640 Mbps
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. I frame storage by period.
Operating System	Embedded LINUX	Auviliary Interface	Thame 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
Transfer Mode	4096Mbps front-end connection 4096Mbps network transfer	Network	
IP SAN Mode	Storage bandwidth ≤2.7Gbps Write-through: 320Mbps;Write-back: 480Mbps	Interface	2 data RJ-45 ports (10/100/1000Mbps)
Storage		Network Mode	Multi-address, Fault-tolerance, Load balance, Link aggregation
HDD Amount miniSAS	16 HDDs, Up to 10 TB capacity for each HDD SATA HDD composite connection 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.)
	Additional HDD bracket,	Max. User Access	128 users
HDD Installation	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 \sim 240V, 47 \sim 63 Hz, 1 + 1 Redundant power
RAID Rebuild	Dynamically adjust RAID rebuild speed to guarantee 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	Working Conditions	0°C ~ +40°C (+32°F ~ +104°F), 10 % ~ 80% RH
Extract Frame	back data. Support extracting P frame function. Customizied	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 5% ~ 90% RH
	extracting period and frame rate setup.	Working Altitude	-60m ~ 3000m
Cluster Service	N+M cluster service After diconnection, system can download the	Construction	
ANR	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	_	Standard 19-inch rack installation
Backup Mode	USB Device/Network/eSATA Device	Installation	Stanuaru 13-inti l'atk ilistaliation
Third-party Support		Certifications	
Third-party Support	Dahua, AEBell, Arecont, AXIS, Dynacolor, HIKVISION, LG, Panasonic, PSIA, Samsung, Sony, Vivotec, and	CE	EN55022, EN55024, EN50130-4, EN60950-1
	more	FCC	Part 15 Subpart B, ANSI C63.4-2009

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)

