

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 0/1/5/6/10/50/60/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 320 channels of IP camera inputs, and 640 Mbps 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.



| 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. I frame storage by period. | |
| Operating System | Embedded LINUX | Auxiliary Interface | Thank storage by period. | |
| User Interface | Web | | | |
| 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 RS232 | 1 USB 2.0 & eSATA multiplex interface 1 Port, for PC communication and Keyboard | |
| IP SAN Mode | Storage bandwith ≤2.7Gbps 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 | Network Mode | Multi-address, Fault-tolerance, Load balance, Link aggregation | |
| miniSAS | 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, PPP0E,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 HDD bad track mapping to enhance HDD life span | Electrical | | |
| | | 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 back data. | Working Conditions | 0°C ~ +40°C (+32°F ~ +104°F), 10 % ~ 80% 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 | 11kg (24.3 lb) (without HDD) | |
| Playback Function | Play, Pause, Stop, Fast play, Slow play, Full screen, Backup selection, Digital zoom | Gross Weight | 16kg (35.3 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, | CE | EN55022, EN55024, EN50130-4, EN60950-1 | |
| | LG, Panasonic, PSIA, Samsung, Sony, Vivotec, and more | FCC | Part 15 Subpart B, ANSI C63.4-2009 | |
| | | UL | UL 60950-1 and CAN/CSA C22.2 No.60950-1 | |

EVS5016S-R

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

Accessories

