

16 HDD Enterprise Video Storage

RAID Support



- High-performance Intel Processor
- 320 Channels at 2 Mbps Video Recording plus
 160 Channels Video Transfer, maximum (Dahua Protocol)
- 640 Mbps Incoming/Recording Bandwidth, maximum
- 16 HDDs, SAS/SATA, Hot-Swap
- Supports RAID 0/1/3/4/5/6/10/50/60/JBOD, Hotspare
- Supports Standard iSCSI Protocol for Expanded Storage Space
- Modular Design
- Redundant Power
- Five-year Warranty*

System Overview

The EVS5016S-R Enterprise Video Storage device offers unparalleled storage technology. It is designed and developed to meet the needs of medium-range to high-end IP video surveillance applications; and supports 512 IP camera channels with 1024 Mbps incoming/recording/forwarding bandwidth.

Combined with hot-swap power supplies, fans, and hard disk drives, the EVS offers Enterprise Class availability. This EVS is ideal for a wide range of applications including public safety, transportation, government institutions, hotels, shopping malls, city centers, and financial institutions that demand flexibility, 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

The Enterprise Video Storage is rack mountable and designed to manage up to 76 channels of digital video for scalability. Powered by Intel® technology, the unit features dual redundant power supplies and a hot-swappable configuration to ensure stability.

Storage Extension Capacity

Local extension, connect to ESS extension storage by mini SAS interface. Extension storage support redundant power and RAID.

RAID Support

The Enterprise Video Storage device provides the processor and RAID enclosure in one chassis, resulting in both space and cost savings. RAID 0/1/3/4/5/6/10/50/60 support is available through a hardware-based RAID controller that removes the loading on the processor that software RAID can bring. A convenient web browser interface is used to manage the RAID controller.

Video Recording Capability

The Enterprise Video Storage device not only stores video data but is capable of simultaneous record, playback, live view and transmission of IP video. The device records 320 channels at 2 Mbps plus 160 channels of video transfer

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

Automatic Network Replenishment (ANR) Technology

Video storage devices with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

Interoperability

The EVS conforms to the ONVIF (Open Network Video Interface Forum) and to the CGI specifications, ensuring interoperability between network video products regardless of manufacturer.

Environmental

The storage device features a wide operating temperature range of 0° C to +40° C (+32° F to +104° F) and a working altitude range of 60 m below sea level to 5000 m above (196.85 ft to 16,404.20 ft).



| hnical Specification |
|--|
| tem |
| n Processor 64-bit High-performance Intel Processor |
| troller Single Controller |
| nory 4 GB by default |
| rating System Embedded LINUX |
| r Interface Web-based |
| orking Mode |
| 512 Channels, maximum 1024 Mbps for incoming/recording/forwar 64-channel (128 Mbps) network playback |
| Front-end Connection: 4096 Mbps |
| Network Transfer: 4096 Mbps AN Mode Storage bandwidth shall not be less than 2 |
| rage |
| 16 HDDs, Up to 10 TB capacity for each HD |
| i-SAS SATA HDD composite connection One (1) Port, for storage extension |
| Additional HDD Bracket, |
| HDD Hot-swap, HDD Online Replacement Single, RAID 0/1/3/4/5/6/10/50/60 |
| (Enterprise-level HDDs are recommended) JBOD, Hotspare |
| Non-working HDD hibernation guarantee ventilation, reduced power consumption |
| enhanced HDD life HDD bad track mapping to enhance HDD li |
| D Rebuild Dynamically adjust RAID rebuild speed to g system load balance |
| iSCSI Volume Management, |
| NAS (SMB/NFS/FTP) Volume Management oshot Snapshot function creates user volume to |
| act Frame Extracting P-frame function Customized extracting period and frame re |
| ter Service N+M cluster service |
| omatic Network After disconnection, system downloads re |
| file from the SD card on the network came maintain the full record file |
| rtcut RAID Creation One-button RAID creation |
| yback and Backup |
| Time/Date Channel Alarm MD and Exact |
| (accurate to one second) |
| back Function Play, Pause, Stop, Fast play, Slow play, Full s Backup selection, Digital zoom |
| kup Mode USB Device, Network, eSATA Device |
| rd-party Support |
| Dahua AFRell Arecont AXIS Dynacolor H |
| d-party Support LG, Panasonic, PSIA, Samsung, Sony, Vivote |

Video Storage | DHI-EVS5016S-R

Construction

| Chassis | 1.20 mm extra-thick, hot-dip galvanized steel, High accuracy aluminum alloy slider, Self-developed, patented, removable HDD bracket |
|------------------------|---|
| Dimensions (W x D x H) | 3U, 484.60 mm x 473.60 mm x 133.20 mm (19.1 in. x 18.65 in. x 5.24 in.) |
| Net Weight | 11.0 kg (24.30 lb), without HDD |
| Gross Weight | 16.0 kg (35.30 lb) |
| Installation | Standard 19-in. rack installation |

Certifications

| CE | EN55022, EN55024, EN50130-4, EN60950-1 |
|----------------------------------|---|
| Electromagnetic Compatibility | FCC CFR 47 Part 15 Subpart B ANSI C63.4-2009 |
| UL | UL 60950-1 CAN/CSA C22.2 No.60950-1 |

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

