

DHI-EVS3224S-SMR/600

Dahua 256CH 24 3U Embedded Video Storage



- 64-bit High-performance multi-core processor
- Max 256-ch IP camera inputs
- Max 768 Mbps incoming/recording/forwarding bandwidth
- 24 bays, SMR, Hot-Swap
- Supports RAID 5
- Supports video stream/picture direct storage mode
- Supports N+M cluster
- Supports Automatic Network Replenishment (ANR)
- Modular and drawer-like design
- 1+1 redundant 80PLUS platinum power supply
- Contains 24 x 25 TB SMR enterprise-level HDD

Series Overview

EVS32S Series provides centralized video storage services with large capacity and 3U chassis 24 bays high-density design for surveillance systems in enterprises. The device contains SMR enterprise HDDs and offers a cost-effective storage solution for video stream direct storage mode. Combined with RAID5 technology, HDD hot-swap, 1+1 platinum power supply and redundant fan design, brings a high reliability, high security, and easy maintenance storage solution.

Functions

Modular Design

The hard disk and the main controller have a modular hardware design, and key modules such as the fan and power supply have a redundant design that improve the reliability of the overall hardware. The hard disk, fan, power supply and other modules are pluggable, and can be replaced for quick and easy maintenance.

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 sub server instantly takes over the main server to ensure no data is lost.

Automatic Network Replenishment (ANR)

Videos are recorded and saved to the SD card of cameras when the network breaks down. When the network recovers, the videos will be transferred to EVS and then recorded through it.

Technical Specification

System	
Main Processor	64-bit high-performance multi-core processor
Operating System	Embedded Linux OS
Operating Interface	Web (PCAPP)
Controller	Single controller
Cache	8 GB by default (extendable to 16 GB)

AI Applications	
AI by Camera	Face detection, face recognition; IVS (tripwire and intrusion); video metadata (human, vehicle, non-motor vehicle); vehicle recognition; perimeter protection; AcuPick (available when connected to DSS)

Cluster	
Cluster	N+M

Audio and Video	
Resolution	32 MP;24 MP;16 MP;12 MP;8 MP;6 MP;5 MP;4 MP;3 MP;1080p;720p
Multi-screen Display	Customized display, max. 16-channel PCAPP live view
Third-party Camera Access	ONVIF, RTSP, Sony, Panasonic, Axis, Arecont, Pelco, Canon, Samsung

Network	
Network Protocol	HTTP;HTTPS;TCP/IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;P2P;IPv6;FTP;UPnP;SNMP;SMB;NFS
Mobile Phone Access	DMSS
Interoperability	ONVIF (Profile S, T and G); CGI; SDK
Browser	Chrome; PCAPP; IE9 or higher; Firefox
Network Mode	Multiple-address mode;Load balance;Fault-tolerance;Link aggregation

Recording Playback	
Multi-channel Playback	Max. 16-channel playback
Record Mode	Auto record; manual record; search video detection; alarm record
Storage Method	Internal HDD
Backup Method	HDD; peripheral USB storage device
Playback Function	1. Play; Pause; Stop; Fast forward; Fast backward; Reverse play; Frame by frame; 2. Full-screen; Backup (clip and file); Snapshot; Digital zoom; Audio on and off

Storage	
Video Direct Storage (Private Protocol)	Incoming: 256-channel (bandwidth: 768 Mbps) Recording: 256-channel (bandwidth: 768 Mbps) Outgoing: 256-channel (bandwidth: 768 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Video Direct Storage (Onvif)	Incoming: 256-channel (bandwidth: 768 Mbps) Recording: 256-channel (bandwidth: 768 Mbps) Outgoing: 256-channel (bandwidth: 768 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)

Video Direct Storage (Auto Register)	Incoming: 256-channel (bandwidth: 768 Mbps) Recording: 256-channel (bandwidth: 768 Mbps) Outgoing: 256-channel (bandwidth: 768 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)
Picture Direct Storage	Incoming: 100-channel (550 KB/picture) Recording: 100-channel (550 KB/picture) Outgoing: 100-channel (550 KB/picture) Playback: 20-channel (550 KB/picture)
Disk Group	Yes
RAID	RAID5
Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based).
Disk Quota	Time quota mode; space quota mode

Alarm	
General Alarm	Motion detect; tampering; IPC external alarm
Anomaly Alarm	Offline; no available disks; disk health exception; storage error; low space; storage pool exception; RAID exception; abnormal quota; video frame loss; IP conflict; MAC conflict; abnormal system disk; account lock; security exception; fan malfunction; power alarm; temperature alarm; share service
Alarm Linkage	Record; snapshot (full image); alarm uploading; remote device alarm output; camera audio; buzzer; log; preset; email, smart tracking and warning light. Disarming alarm linkage action by period or one-click sync disarm configuration with channels

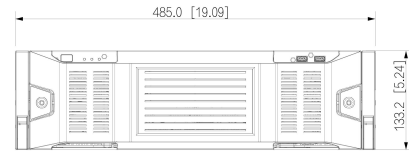
Port	
Disk Interface	24 slots, SATA Max.25 TB/HDD hot swapping SMR recommend enterprise-grade HDD
RS-232	1 port
USB	4 ports. 2 USB2.0 ports at the front panel and 2 USB3.0 ports at the rear panel.
HDMI	1 port, only for debug
Network Port	1 × RJ-45 10/100 Management Ethernet port 2 × RJ-45 10/100/1000/2500 Mbps self-adaptive Ethernet ports (gigabit electrical port) 2 × RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports (gigabit electrical port)
Power	1+1 redundant power supply
Network Port Extension	2 × 1-GbE LAN ports (optional) 2 × 10-GbE optical fiber ports (optional)

General	
Disk Bay	24
Form Factor	3U
Power Supply	100–127/200–240 VAC,50/60 Hz,5/2.5 A
Power Consumption	Working (all HDDs connected): ≤ 280 W (956 BTU) Working (without HDD): ≤ 35 W (119 BTU) Rated: ≤ 550 W (1877 BTU)
Fan	Intelligent speed regulation fan
Net Weight	12.8 kg (28.22 lb)

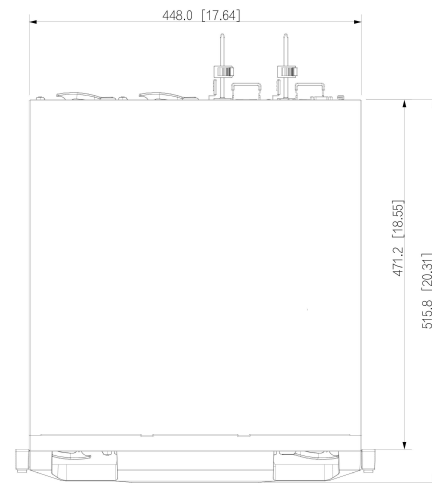
EVS32S Series | DHI-EVS3224S-SMR/600

Gross Weight	25.1 kg (55.34 lb)
Product Dimensions	Chassis: 448 mm× 133.2 mm× 515.8 mm (17.64" × 5.24" × 20.31") (W × H × D) Max. size: 485 mm (with hanger) × 133.2 mm × 515.8 mm (19.00" × 5.24" × 20.31") (W × H × D)
Packaging Dimensions	With packaging: 693 mm × 881 mm × 783 mm (27.28" × 34.69" × 30.83")(W × H × L)
Operating Temperature	0 °C to +45 °C (+32 °F to +113 °F)
Operating Humidity	10%–80% (RH), non-condensing
Operating Altitude	≤5,000 m (16,404.20 ft)
Installation	Standard 19 inch rack

Dimensions (mm[inch])



mm [inch]



Ordering Information

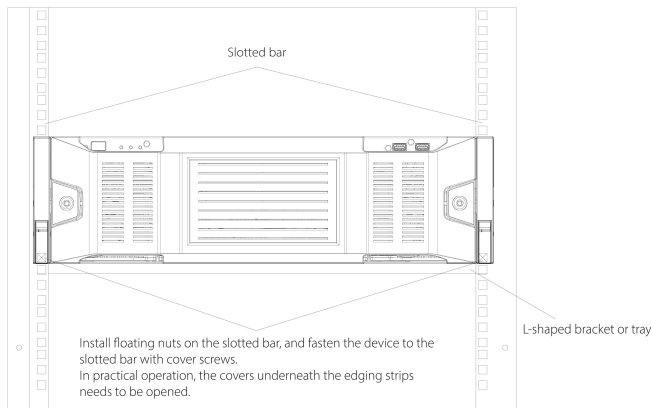
Type	Model	Description
Embedded Video Storage	DHI-EVS3224S-SMR/600	Dahua 256CH 24 3U Embedded Video Storage

Accessories

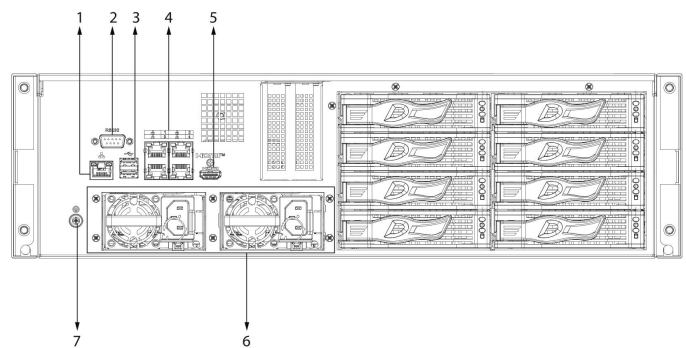
Optional:



DHI-RailBracket60/L-
Shaped
Dahua OCH 0 Server
Cabinet Rail Bracket



Panels



- | | |
|----------------------------|----------------|
| 1 Ethernet Management Port | 2 RS-232 Port |
| 3 USB Port | 4 Network Port |
| 5 HDMI Port | 6 Power Input |
| 7 Ground (GND) | |