

# DHI-EVS7285S

## 85-bay Embedded Video Storage



- 64-bit high-performance multi-core processor.
- Max 1024-ch IP camera inputs.
- Max 2048 Mbps incoming/recording/forwarding bandwidth.
- 85 bays, SAS/SATA, Hot-Swap.
- Supports RAID 0/1/5/6/10/50/60, JRAID, JBOD, Hot spare.
- Supports video stream direct storage mode and IPSAN storage mode.
- Supports N+M cluster.
- Supports Automatic Network Replenishment (ANR).
- Modular and drawer-like design.
- 2+1 redundant 80PLUS platinum power supply.

### System Overview

DHI-EVS7285S 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 1024 channels of IP camera inputs, and 2048 Mbps incoming/recording/forwarding bandwidth. Combined with hot-swap power supplies, fans and hard disk drives, the EVS offers real Enterprise Class availability. 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. Its open architecture supports multi-user access and is compatible with ONVIF 19.12.

### Functions

#### Modular Design

All key modules are hot-swap and redundant configuration. Redundant fans, redundant power, and multi-redundant design ensure stability. The brand new design for disk carrier ensures good cooling, stability and safety for hard disks.

#### RAID 0/1/5/6/10/50/60

Offering a balance between storage performance, storage capacity, and data integrity, the EVS features fruitful 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 sub server instantly takes over the main server to ensure no data is lost.

#### ANR (Automatic Network Replenishment Technology)

Video is recorded in SD card in IP cameras when the network breaks down, and after the network is recovered, the video will be transferred to EVS and then recorded on it.

### Scene

Public safety, transportation stations, government institutions, hotel resorts, shopping malls, city centers, and financial institutions.

Technical Specification	
System	
Main Processor	64-bit multi-core processor
Operating System	Embedded Linux
Operation Interface	Web
Controller	Single controller
RAM	16 GB, expandable up to 128 GB
Redundant Power	2+1
System	
Network Port	1x1GbE management port; 4x1GbE LAN ports
USB	2xUSB3.0
eSATA	1xeSATA
RS-232	1xDB9
Internal Interface	
M.2 SSD Port	2xNVMe SSD ports
PCI-E Port	2xPCI-E X8
Disk	
Number of Disk	85
Disk Compatibility	1 TB; 2 TB; 3 TB; 4 TB; 6 TB; 8 TB; 10 TB; 12 TB; 14 TB; 16 TB; 18TB 2.5-inch and 3.5-inch HDD Support simultaneously connectng to SATA/SAS/SSD
Installation	Independent disk tray
Hot Swapping	Yes
Disk Mode	RAID 0/1/5/6/10/50/60; JRAID; JBOD; hot-spare
Disk Management	Non-working disks automatic sleep
Disk Processing	Bad sector mapping
Disk Status Detection	Inspection before use and during use
Performance	
Video Direct Storage (Private Protocol)	Up to 1024-channel (2048 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback
Video Direct Storage (Onvif)	Up to 1024-channel (2048 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback
Video Direct Storage (Auto Register)	Up to 1024-channel (2048 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback
Picture Direct Storage	Up to 1024-channel access, storage, and forwarding (250 KB/Picture)
IPSAN Performance	Write-through: 900 Mbps Write-back: 1,200 Mbps
Function	
IPSAN Mode	Yes
IPSAN Function	Dynamic online extension of logic volumes
Video Stream Mode	Direct storage

Network Protocol	RTP; RTCP; RTSP; UDP; HTTP; NTP; SNMP; iSCSI; SMB; NFS; FTP
Streaming Media Protocol	ONVIF 19.12
Cluster Service	N+M
Automatic Network Replenishment (ANR)	Videos during network failure upload to EVS automatically afterwards
Network Mode	Link Aggregation, Fault-Tolerance, Load Balance
Quick RAID	Yes
RAID Instant Use	Yes
RAID Rebuild	Self-adaptive rebuilding
RAID-Write Synchronization	Yes
Record Mode	Scheduled, manual, motion-triggered and alarm triggered
Recording Playback	Web playback, concentrated playback, slice playback, synchronous playback Search video by second Adjustable playback speed
Recording Backup	Back up video through USB, network, and eSATA
AI by Camera	Access by cameras with encoding formats of MPEG4, MJPEG, H.264, H.265, and SVAC Access by multi-sensor cameras, thermal cameras, and panoramic cameras

General	
Power Supply	100-127 V/200-240 V AC, 50/60 Hz, 16 A/8 A
Fan	Intelligent speed regulation and hot swapping
Power Consumption	< 1600 W (include disks)
Operating Temperature	0 °C to +35 °C (+32 °F to +95 °F)
Operating Humidity	10%–80% (RH) (non-condensation)
Storage Temperature	–20 °C to +70 °C (–4 °F to +158 °F)
Storage Humidity	5%–90% (RH) (non-condensation)
Operating Altitude	≤3000 m (9842.52 ft)
Certifications	CE: EN 55024; EN 55032; EN 55035; EN 50130-4; EN 61000-3-2; EN 61000-3-3; EN 62368 FCC: ANSI C63.4, 47 CFR PART 15B Subpart B"
Case	4U
Product Dimensions	With hanger: 482.6 mm x 177 mm x 932.9 mm (19"" x 6.96"" x 36.73"" ) (W x H x D) Without hanger: 446 mm x 177 mm x 932.9 mm (17.56"" x 6.96"" x 36.73"" ) (W x H x D)
Net Weight	55.2 kg (121.70 lb)
Gross Weight	75 kg (165.35 lb)
Installation	Standard 19 inch rack, with slide rail

Ordering Information		
Type	Part Number	Description
85-bay EVS	DHI-EVS7285S	85-bay Embedded Video Storage

Dimensions (mm[inch])

