

# DHI-EVS7136S

36-bay Embedded Video Storage



- · 64-bit High-performance multi-core processor
- · Max 512-ch IP camera inputs
- Max 1024 Mbps incoming/recording/forwarding bandwidth
- · 36 bays, SAS/SATA, Hot-Swap
- Supports RAID 0/1/5/6/10/50/60, JBOD, Hot spare
- Supports video stream/ Picture direct storage mode and IPSAN storage mode
- · Supports N+M cluster
- Supports Automatic Network Replenishment (ANR)
- SAS cascade for expanded storage space
- · Modular and drawer-like design
- 1+1 redundant 80PLUS platinum power supply

#### **System Overview**

DHI-EVS7136S 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 512 channels of IP camera inputs, and 1024Mbps 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 (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.4.

### **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.

#### **Storage Extension Capacity**

Local extension, connecting to expansion storage cabinet by mini SAS interface. Extension storage supports redundant power and RAID.

#### 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.

Technical Specification		Function	
System		IPSAN Mode	Yes
Main Processor	64-bit multi-core processor	IPSAN Function	Dynamic online extension of logic volumes
Operating System	Embedded Linux	Video Storage	Direct storage
Operation Interface	Web	Network Protocol	RTP; RTCP; RTSP; UDP; HTTP; NTP; SNMP; iSCSI; FTP; SMB; NFS
Controller	Single controller	RTSP	ONVIF
RAM	8 GB by default (extendable to 64 GB)	Cluster	N+M
Power Redundancy	1+1	Automatic Network	Videos during network failure upload to EVS
External Ports		Replenishment (ANR)	automatically afterwards  Multiple-address, link aggregation,
SAS	2 mini SAS HD ports with maximum speed 12Gb/s	Network Mode	fault-tolerance, load balance
Network	1 × 1GbE management port; 4 × 1GbE LAN ports	Quick RAID	Yes
Network Extension	$4 \times 1$ -GbE LAN ports and $2 \times 10$ -GbE optical fiber	RAID Instant Use	Yes
-CATA	ports are optional	RAID Rebuilding	Self-adaptive rebuilding
eSATA	1 × eSATA	RAID-write Synchronization	Yes
RS-232	1 × DB9	Record Mode	Scheduled, manual, motion-triggered and alarm triggered
Internal Expansion	1×HDMI	Video Playback	Web playback, concentrated playback, slice playback, synchronous playback Search video by second
M.2 SSD	2 × NVMe SSD ports		Adjustable playback speed  Access by cameras with encoding formats of
PCI-E	1 × PCI-E X8; 1 × PCI-E X4	Video Codec	MPEG4, MJPEG, H.264, H.265, and SVAC Access by multi-sensor cameras, thermal
Disk	$1 \times 2.5$ inch SATA		cameras, and panoramic cameras
Disk		Video Backup	Back up video through USB, network, and eSATA
Disk Bay	36  1TD, 2TD, 2TD, 4TD, 5TD, 6TD, 9TD, 10TD, 12TD,	General	
Dialy Type	1TB; 2TB; 3TB; 4TB; 5TB; 6TB; 8TB; 10TB; 12TB; 14TB; 16TB; 2.5-inch and 3.5-inch HDD Support simultaneously connecting to SATA/ SAS	Power Supply	100–127V/200–240 VAC, 50/60 Hz, 6A/3A
Disk Type		Fan	Dual ball-bearing fans <85 W (without HDD, idling)
Disk Installation	Independent disk tray	Power Consumption	<600 W (all HDDs connected)
Hot Swapping	Yes	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)
RAID Type	RAID 0/1/5/6/10/50/60; JBOD; hot-spare	Operating Humidity	10%–80% (RH) (non-condensation)
Disk Processing	Dad sector mapping	Storage Temperature	-20 °C to +70 °C (-4 °F to +158 °F)
Disk Management	Non-working disks automatic sleep	Storage Humidity	5%–90% (RH) (non-condensation)
Disk Inspection	Inspection before use and during use	Operating Altitude	≤ 5000 (16404.20 ft) m
Performance		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
Video Direct Storage (Private Protocol)	Up to 512-channel (1024 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback	Chassis	1.2 mm hot dip galvanized steel plate Independent developed pull-out disk tray
Video Direct Storage (ONVIF)	Up to 512-channel (1024 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback	Dimensions	With hanger: 482.6 mm × 175 mm × 736.5 mm (19" × 6.89" × 29") (W × H × D) Without hanger: 446 mm × 175 mm × 736.5 mm (17.56" × 6.89" × 29") (W × H × D)
Video Direct Storage (Auto Register)	Up to 512-channel (1024 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback	Net Weight	26 kg (57.32 lb)
Picture Direct Storage	Up to 512-channel access, storage, and forwarding (250 KB/Picture)  360-channel × 2 Mbps video stream writing and	Gross Weight	44 kg (97 lb)
-0-		Installation	Standard 19 inch rack
IPSAN Performance	24-channel × 2 Mbps video stream writing and		

VMS is 64 KB)

# EVS Series | DHI-EVS7136S

Ordering Information			
Туре	Model	Description	
36-bay EVS	DHI-EVS7136S	36-bay Embedded Video Storage	
24-bay ESS	ESS3124S-JR	24-bay Expansion Storage Cabinet	

## **Expansion Storage Cabinet**

