

DS-A72XX-CVS Storage System



Features and Functions

High Reliability Design

- Redundancy design for key parts; modular drawer design.
- Cluster-based technology to implement load balance and backup among storage nodes.
- Supports automatic network replenishment (ANR) to restore videos during network disconnection.
- The cluster backup function stores multiple copies of a single video within the cluster storage system; supports internal cluster backup and multiple-cluster backup.

High Performance Application

- Based on discrete storage technology, multiple devices are able to respond simultaneously to data read/write services, finish massive data search at second level, and download data at high speed.
- Based on virtualization technology, all storage nodes are virtualized as a unified resource which is accessible through specified port; storage space can be flexibility divided and can be adjust dynamically without data loss.
- A single device can respond to the concurrent writing requests of several hundred video channels.
- Supports frame analysis and offers key frame search and playback.
- Supports video stream frame extraction storage.

Cost-efficient System

- Supports direct video storage. No stream media server is required.
- Supports stream forwarding. No media switch server is required.

Efficient Maintenance Service

- Complete maintenance system, with provided maintenance tools.
- Operating status monitoring for CPU, memory, NIC and HDD.
- Active alarm for software and hardware failures.
- Active alarm for device failure and disconnection.

High Scalability

- Increase storage space and performance by stacking and cascading without interrupting services. Easily and quickly expand your storage capacity at TB or even PB level.

HDD Detection

- Pre-detection before using HDD.
- In-process detection when using HDD.
- Restoration and recovery technology after HDD failure.



RAID Optimization

- Supports RAID 0, 1, 3, 5, 6, 10, 50.
- Instant application of RAID mode; supports dynamic online expansion of logical volume.

Green & Energy-efficient

- CPU dynamically adjusts operating frequency according to workload.
- Intelligent fan speed adjustment; higher heat dissipation efficiency and lower noise.
- High quality power supply to increase power conversion efficiency and reduce power loss.

Compatible & Open

- Provides complete API interfaces for third-party cluster storage system connection.
- Supports standard ONVIF access.
- Supports Smart IPC access.

Software Module

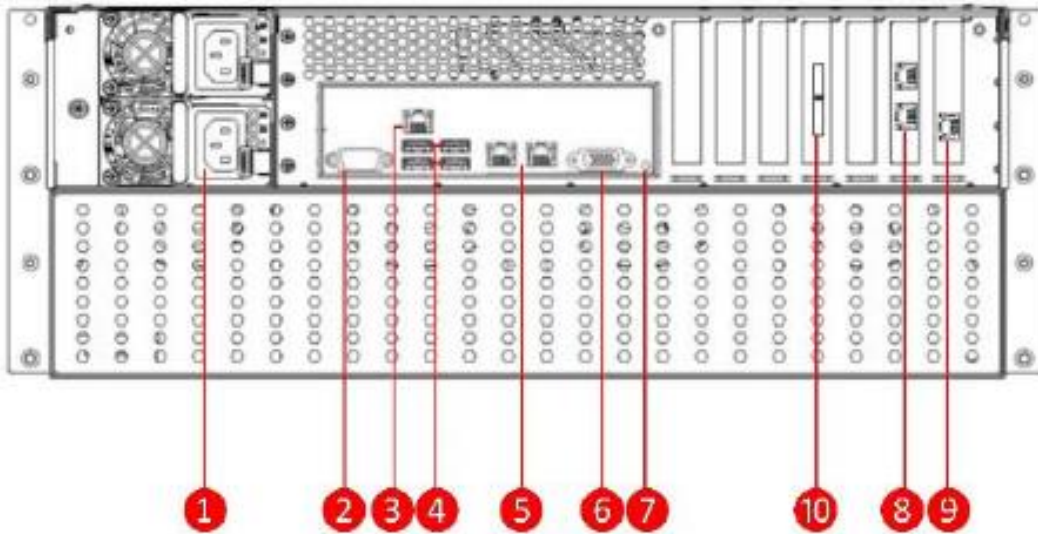
- Cluster Video Access (CVA): Recording task management, recording service and device status management, etc.
- Cluster Video Storage (CVS): Video data read/write operation.

Specification

Model		DS-A72024R-CVS	DS-A72048R-CVS
Performance	Video: recording + playback (2 Mbps)	300-ch + 64-ch	360-ch + 32-ch
	Controller	2 × Xeon hexa-core processor	
Controller	Cache	16 GB (extendable to 64 GB)	
	SSD	64 GB	
Storage	HDD slot	24	48
	Interface	SATA (SSD optional)	
	Capacity	1 TB, 2 TB, 3 TB, 4 TB, 6 TB, 8 TB, 10 TB, 12 TB	
	Hot-plugging	Supported	
	RAID	RAID 0, 1, 3, 5, 6, 10, 50, JBOD, hot spare	
Software module	CVA	Device access management, recording schedule, stream forwarding, VCA	
	CVS	Video access service, storage space management, data read/write	
	Storage management	StorOS storage system, RAID management, HDD detection and restoration, alarm	
External interface	Data	4, 1000M Ethernet interface, extendable to 4 × GE or 2 × 10GE	
	Management	1, 100M Ethernet interface	
	COM	1	
	USB	4	
	VGA	1	
General	Power supply	Redundant power supply	
	Power Consumption (with HDD)	Operating: ≤ 410 W Rated: ≤ 875 W	Operating: ≤ 620 W Rated: ≤ 1360 W
	Temperature	Operating: 5 °C to 35 °C (41 °F to 95 °F) Storing: -20 °C to +70 °C (-4 °F to +158 °F)	
	Humidity	Operating: 20% to 80% RH (non-condensing/frozen) Storing: 5% to 90% RH (non-condensing/frozen)	
	Chassis	19-inch 4U standard chassis	19-inch 8U standard chassis
	Dimensions (W × D × H)	430 × 730 × 180 mm (16.9 × 28.7 × 7.1 inch)	447 × 843 × 344 mm (17.6 × 33.2 × 13.5 inch)
	Weight (without HDD)	≤ 40 kg (88.2 lb)	≤ 50 kg (110.2 lb)

Physical Interface

DS-A72024R-CVS



DS-A72048R-CVS

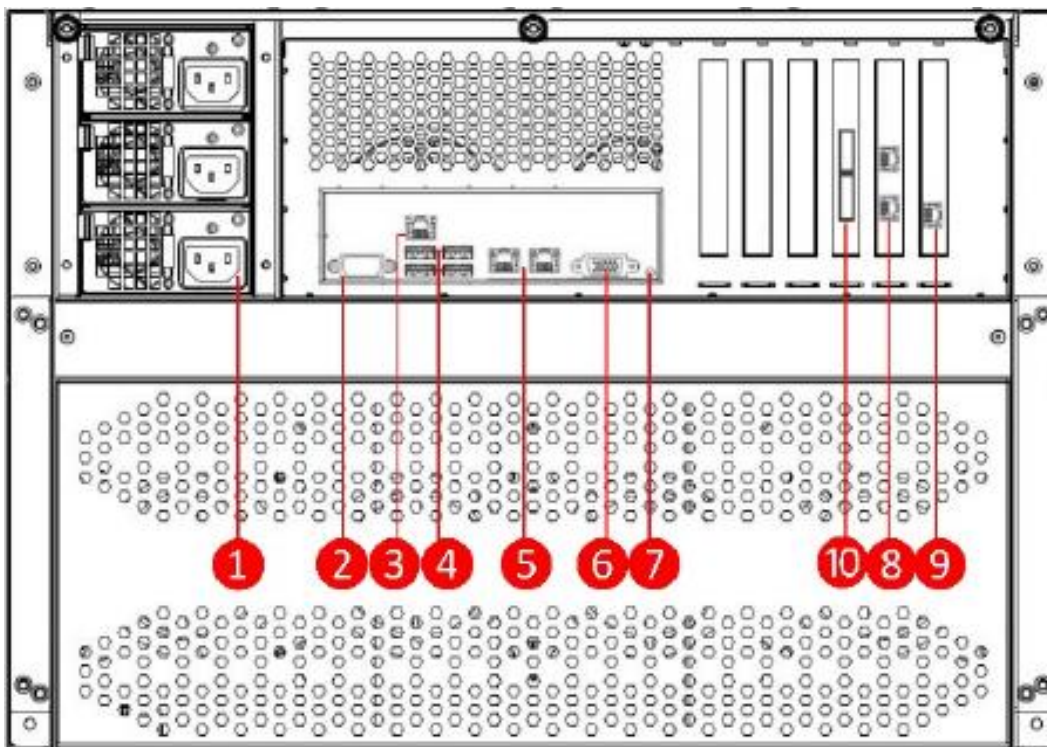


Figure 1-1 Rear Panel

Table 1-1 Rear Panel Description

No.	Name	No.	Name
1	Power supply	6	VGA interface
2	Serial port	7	Fn indicator
3	IPMI Management LAN	8	Data LAN 3 (upper one) and Data LAN 6 (lower one)
4	USB interfaces	9	Management LAN
5	Data LAN 1 (left one) and Data LAN 2 (right one)	10	SAS interface

Available HDD

Hikvision Tested and recommended HDDs:

Model	Capacity (TB)
ST12000NM0008	12
ST10000NM0086	10
ST8000NM0055	8
ST6000NM0115	6
ST4000NM0035	4
HUS726T4TALA6L4	4
HUS726T6TALE6L4	6
HKS728T8TALE-31	8
HUS728T8TALE6L4	8
HUH721212ALE-31	12

Available Model

DS-A72024R-CVS, DS-A72048R-CVS

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