

DS-A72 Series Enterprise Network Storage

Introduction

The DS-A72 series is the high-performance and high-reliability enterprise-class storage solution, offering 4 to 8 Gbps bandwidth and large-scale storage space. With dual 64-bit multi-core processors, reliable structure and RAID 6 technology, the product meets requirements of high performance and strictly ensures data security.



Features and Functions

High-performance and Scalable Hardware Platform

- Modular design.
- Dual 64-bit multi-core processor.
- 8 to 128 GB high-speed cache.
- SAS2.0 and PCI-E2.0.
- 4U chassis, 24/36 HDDs; 8U chassis, 48/72 HDDs.
- Four to eight 1000M network interface, supporting SAS cascading, scalable 10G network interface.

HDD Detection and Repair/RAID Optimization

- Detection before operation.
- Detection in operation.
- Fault repair.
- RAID 0, 1, 3, 5, 6, 10, 50, VRAID.
- Global and local hot spare.
- Quick RAID building.
- Capability of cascading up to two storage enclosures behind a single SAS port.

Advanced Data Protection

- Synchronous backup of key information in system disk and HDD.
- RAID-based tamper-proof data technology.
- Auto data synchronization between devices.
- Volume clone technology.

Energy Efficient

- CPU load balance.
- Auto fan tuning.
- HDD sleeping.

User-Friendly UI

- Quick configuration
- Varied alarm management.
- SADP protocol supported.
- SNMP supported.

Surveillance-Specialized Direct Storage (Direct Streaming Mode)

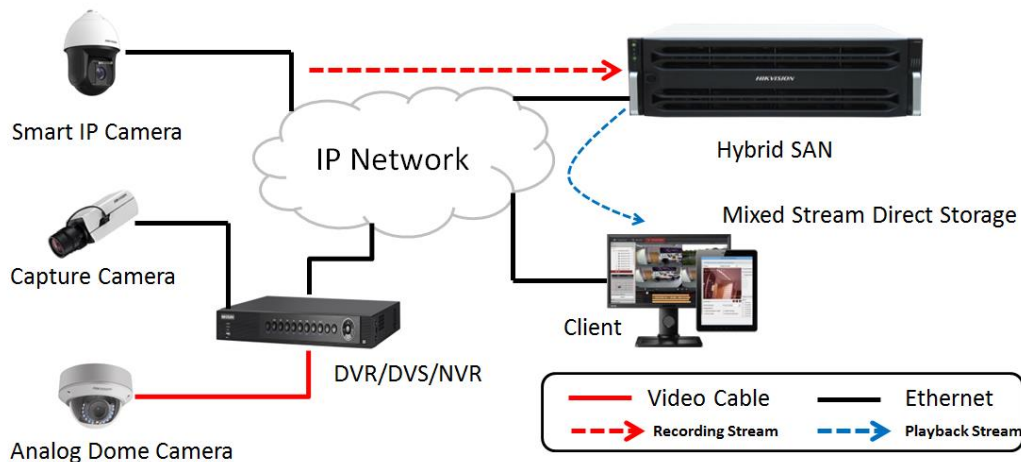
- Space pre-allocation strategy.
- Direct storage for mixed video.
- Support direct IP camera/DVR/NVR streaming and recording.
- Support camera access through RTSP, ONVIF and PSIA protocol.
- Support alarm/scheduled/manual recording.
- Automatic network replenishment (ANR), timely uploading, and video loss alarm.
- Internal/external backup of data.
- Lock key videos.
- Search, play, and download videos by video type or video time.



Specifications

Model		DS-A72024R	DS-A72072R	
Performance	Direct Streaming Mode: video (2 Mbps) + picture	820-ch recording + playback		
Controller	Processor	Dual 64-bit multi-core processor		
	Cache	8 GB (extendable to 128 GB)		
Storage	HDD slot	24	72	
	Interface/capacity	SATA/1 TB, 2 TB, 3 TB, 4 TB, 6 TB, 8TB,10TB,12TB		
	Hot-swapping	Supported		
	RAID	RAID 0, 1, 3, 5, 6, 10, 50, VRAID, JBOD, hot spare		
Network	Protocol	iSCSI, RTSP, ONVIF, PSIA		
External interface	Data	4, 1000M Ethernet interface (4 × 1GbE or 2 × 10GbE is extendable)	4, 1000M Ethernet interface	
	Management	1, 100M Ethernet interface	1, 100M Ethernet interface	
	SAS	Supported		
	COM	1, for HyperTerminal or UPS		
	USB	4		
	VGA	1		
General	Power supply	Redundancy (1 + 1)	Redundancy (2 + 1)	
	Consumption (with HDDs)	<ul style="list-style-type: none"> ● Operating: ≤ 410 W (1398 BTU with 24 HDDs) ● Rated: ≤ 875 W 	<ul style="list-style-type: none"> ● Operating: ≤ 850 W (2899 BTU with 72 HDDs) ● Rated: ≤ 1360 W 	
	Temperature	<ul style="list-style-type: none"> ● Operating: 5 °C to 35 °C (41 °F to 95 °F) ● Storing: -20 °C to +70 °C (-4 °F to +158 °F) 		
	Humidity	<ul style="list-style-type: none"> ● Operating: 20% to 80% RH (non-condensing/frozen) ● Storing: 5% to 90% RH (non-condensing/frozen) 		
	Chassis	19-inch 4U	19-inch 8U	
	Dimensions (W × D × H)	445 × 746 × 175 mm (17.5 × 29.4 × 6.9 in)	445 × 860 × 345 mm (17.5 × 33.9 × 13.6 in)	
	Weight (without HDDs)	≤ 40 kg (88.2 lb)	≤ 52 kg (114.6 lb)	

Typical Application



Available Models

DS-A72024R, DS-A72072R

Available HDDs

Hikvision Tested and recommended HDDs

Seagate **MAKARA Series** (eg. ST8000NM0055) / Seagate **MakaraBP Series** (eg. ST6000NM0115) / **WD RE series** (eg. WD8002FRYZ-31) /

HGST 7k6000 series (eg. HUH728080ALE600)

Note: Enterprise HDD strong recommended when used in RAID mode and ISCSI application due to more stability design features; if Surveillance HDD need to be Used, please consult with Hikvision Sales.

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