DS-A83024S
24-slot Single Controller Storage

Introduction

The DS-A83 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.

Key Feature

Economical and Stable Hardware Platform

- 64-bit multi-core processor.
- 16 to 384 GB high-speed cache.
- PCI-E3.0 high-speed transmission channel,support 4 × GbE or 2 × 10GbE is extendable
- Five 10M/100M/1000M network interfaces.
- Redundant design for key modules.
- 4U chassis model supports 24 HDDs.

HDD Detection and Repair/RAID Optimization

- Detection before operation.
- Detection in operation.
- Fault repair.
- RAID 0, 1, 3, 5, 6, 10, 50.
- Global and local hot spare.
- Quick RAID building.
- Capability of cascading up

Advanced Data Protection

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

Energy Efficient

- CPU load balance.
- Auto fan tuning.

User-Friendly UI

- One touch configuration.
- Various alarm management.
- Supports SADP protocol.
- Supports SNMP.

Video Security-Specialized Stream Media Direct Storage (Direct Streaming Mode)

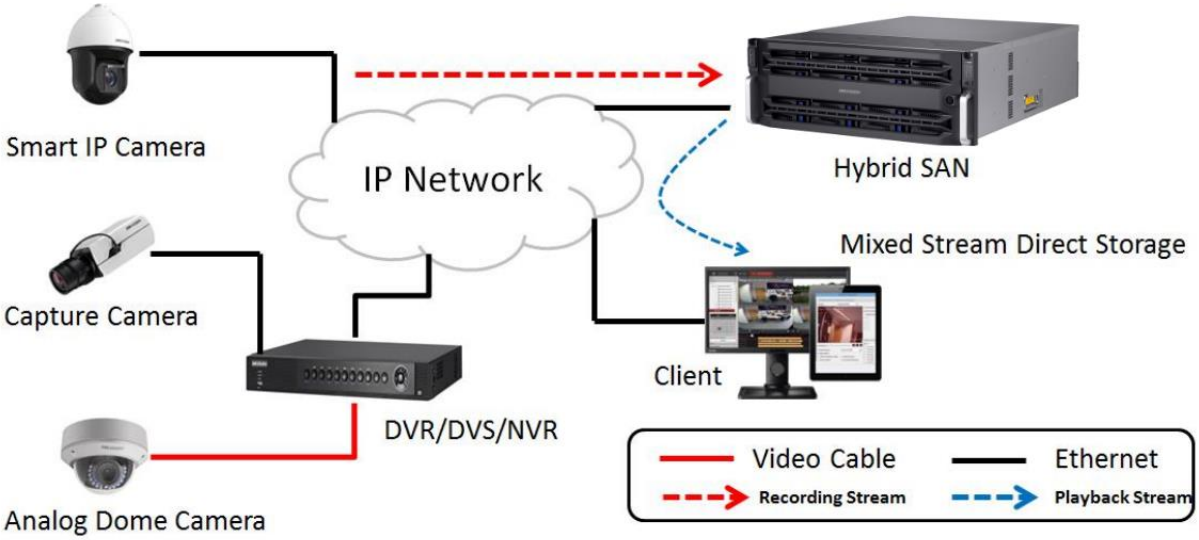
- Space pre-allocation strategy.
- Direct storage for video and picture streams.
- Supports direct IP camera/DVR/NVR streaming and recording.
- Support H264, H264+, H265, H265+.
- Support N+1.
- Supports camera access through iSCSI, RTSP, ONVIF, and PSIA protocol.
- Supports alarm/scheduled/manual recording.
- Automatic network replenishment (ANR), timely uploading, and video loss alarm.
- Lock key videos.
- Supports both Direct Streaming Mode and IPSAN Mode.
- Search, play, and download videos by video type or video time.

▪ Specification

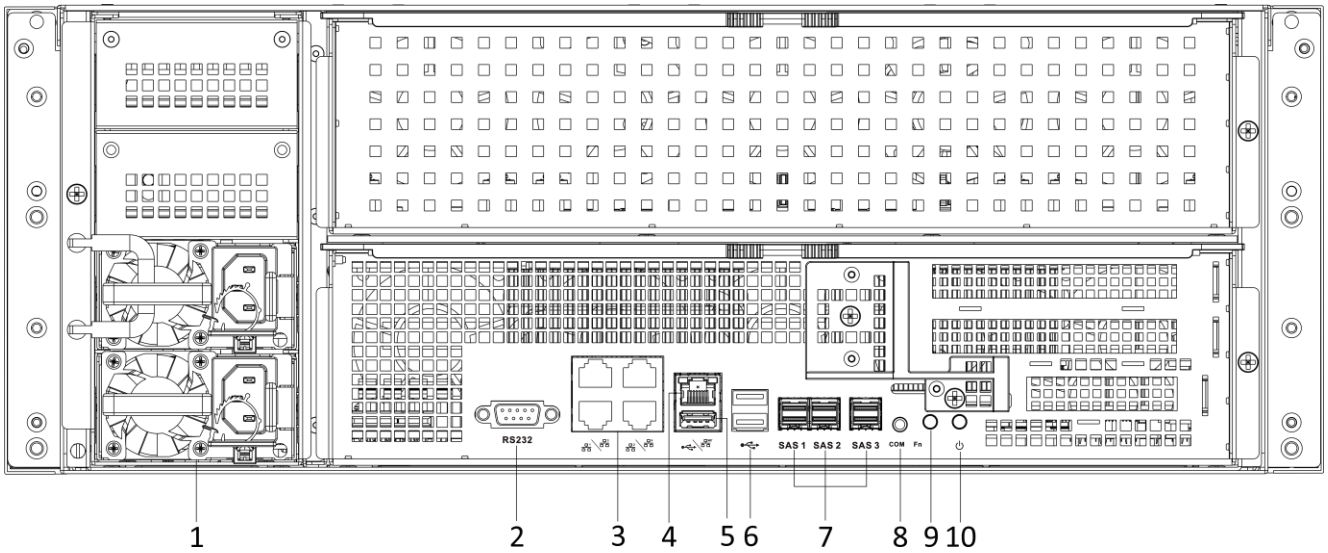
Network	
Protocol	iSCSI, RTSP, ONVIF, PSIA
External interface	
USB	2*USB3.0， 1*USB2.0
Data network interface	4, 1000M Ethernet interface(4 × GbE or 2 × 10GbE is extendable)
MiniSAS interface	3
COM	1
Management network interface	1, 1000M Ethernet interface
Storage	
HDD slot	24
Interface/capacity	SATA/1 TB, 2 TB, 3 TB, 4 TB, 6 TB, 8 TB, 10 TB, 12 TB, 14 TB, 16 TB
Hot-swapping	Supported
HDD support	RAID(Enterprise Hard Disk)
RAID	RAID 0, 1, 3, 5, 6, 10, 50,JBOD, Hot-Spare
Performance	
Direct Streaming Mode: video (2 Mbps) + picture	1024-ch
Hardware	
Structure	Controller Structure
Processor	Dual 64-bit multi-core processor
Cache	16 GB (extendable to 384 GB)
Storage Management	
Disk management	Disk inspection, alarm and repair
Logical volume management	iSCSI volume, video volume management
Recording Management	
Recording mode	Timing recording, manual recording, alarm recording
Video protection	Lock key video, N+1 service protection, ANR, video loss detection and alarm
Searching mode	Search by time and event
Downloading mode	Quick download, batch download, download by segment, download by merging
Device Maintenance	
Management mode	Web-based GUI, serial port CLI, centralized management of multiple devices
Alarm mode	Sound, light, email, message, web page
Log downloading	Download on web page
HDD	
HDD Model	Hikvision,HK7216AH,16T; Hikvision,HK7210AH,10T; Hikvision,HK728TAH,8T; Hikvision,HK726TAH,6T; Hikvision,HK724TAH,4T;
General	
Power supply	Redundant 800W
Consumption(with HDDs)	Working: ≤ 700W
Environment temperature	Working: +0 °C to +40 °C (32 °F to 104 °F);Storing: -40 °C to +55 °C (-40 °F to +131 °F)

Humidity	Working: 20% to 80%RH (non-condensing/frozen); Storing: 5% to 90%RH (non-condensing/frozen)
Chassis	4U (19-inch height)
Dimensions(W × D × H)	484 x 684 x 174 mm (19.1 x 26.9 x 6.9 in)
Weight (without HDDs)	41kg

▪ Typical Application



▪ Physical Interface

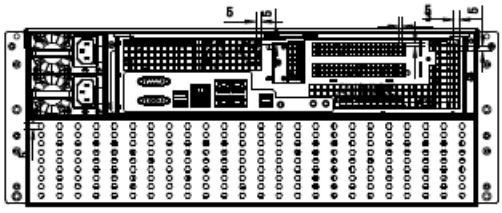


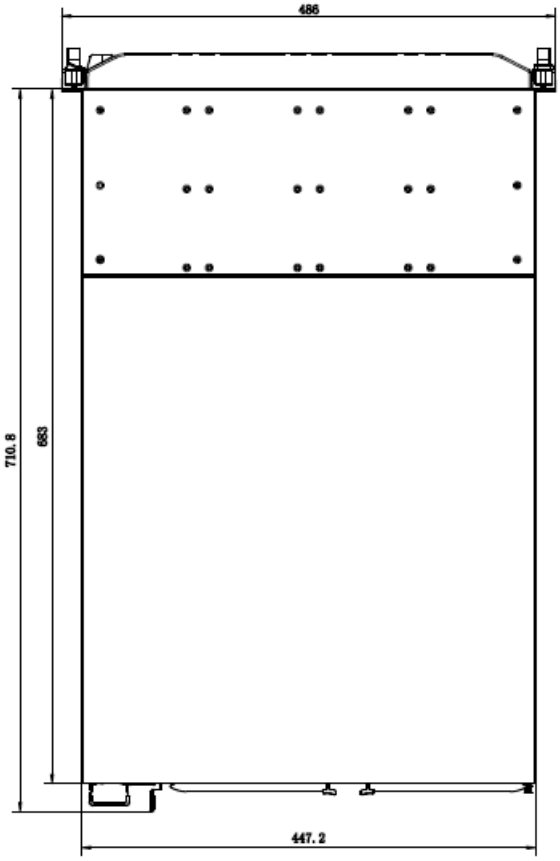
No.	Description	No.	Description
1	Power module	6	USB interface
2	RS-232 interface	7	SAS interface 1 to 3
3	LAN interface 1 to 4	8	COM
4	Management LAN interface	9	FN button
5	USB interface	10	Power switch

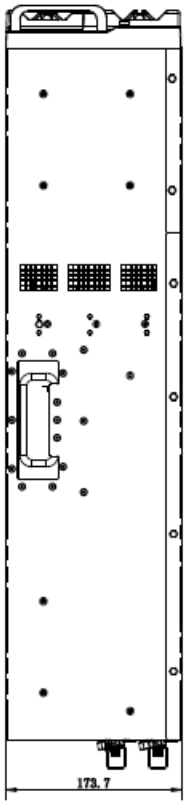
▪ Available Model

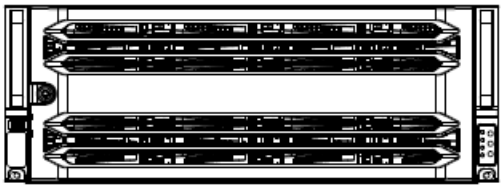
DS-A83024S

▪Dimension









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