# 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.

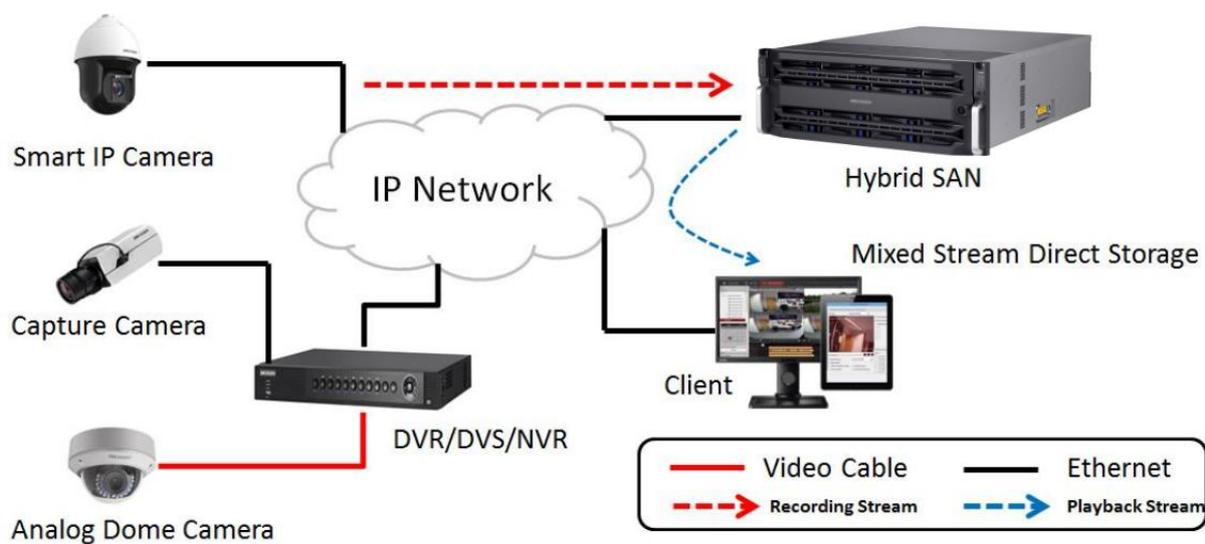## Surveillance-Specialized Stream Media Direct Storage (Direct Streaming Mode)
- Space pre-allocation strategy.
- Direct storage for video and picture streams.
- Supports direct IP camera/DVR/NVR streaming and recording.
- Support H264, H264+, H265, H265+.
- Support N+1.
- Supports camera access through 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.
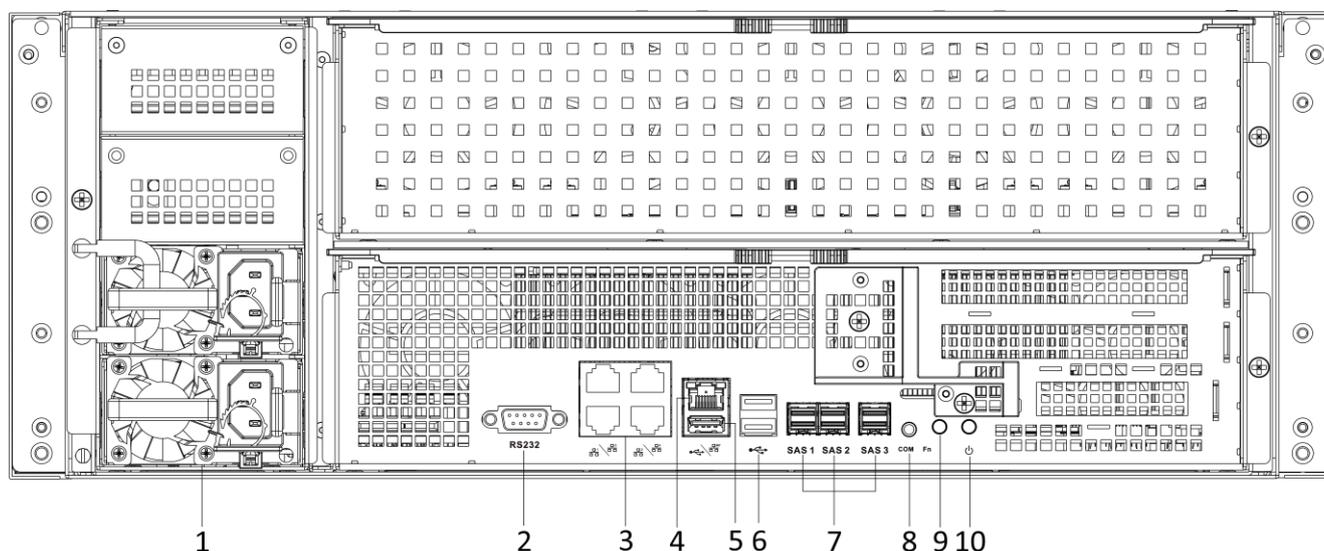- Search, play, and download videos by video type or video time.

## ▪ 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 |

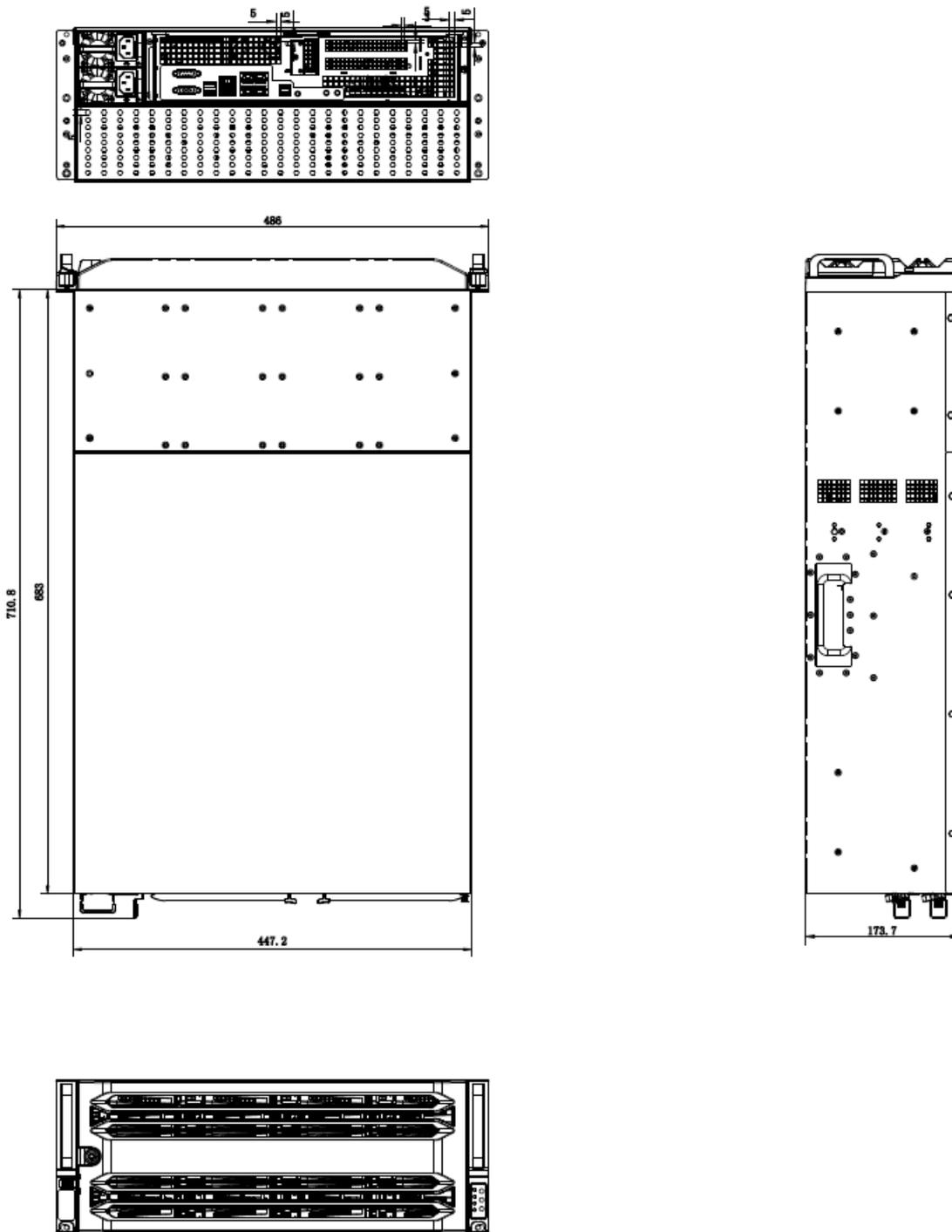## ▪ Typical Application

## ▪ 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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