

## DS-A81072S

### 72-slot Single Controller Storage



## Introduction

The DS-A81 series is an economical and reliable Hybrid SAN (Storage Area Network) product. Hikvision Hybrid SAN product creates a network with access to data storage servers, and it integrates Hikvision's unique video direct streaming technology as well as supports IPSAN. Hybrid SAN system supports third-party cameras such as BOSCH, AXIS, SONY, Samsung, etc., and supports RTSP and ONVIF protocols, and extended data retention. With no recording server needed, Hikvision's Hybrid SAN systems truly make applications simple, flexible, and budget-friendly.

## Key Feature

### Economical and Stable Hardware Platform

- 64-bit multi-core processor.
- 8 to 64 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.
- 8U chassis model supports 72 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)

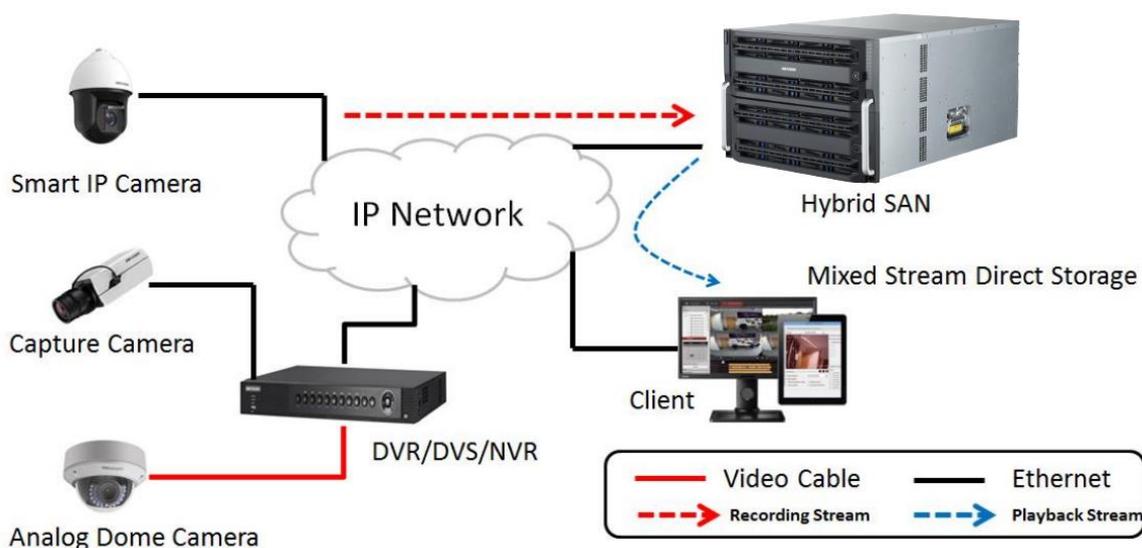
- Space pre-allocation strategy.
- Direct storage for video and picture streams.
- Supports direct IP camera/DVR/NVR streaming and recording.
- Support H264, H264+, H265, H265+.
- Support N+1.
- Supports camera access through iSCSI, RTSP, ONVIF, and PSIA protocol.
- Supports alarm/scheduled/manual recording.
- 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

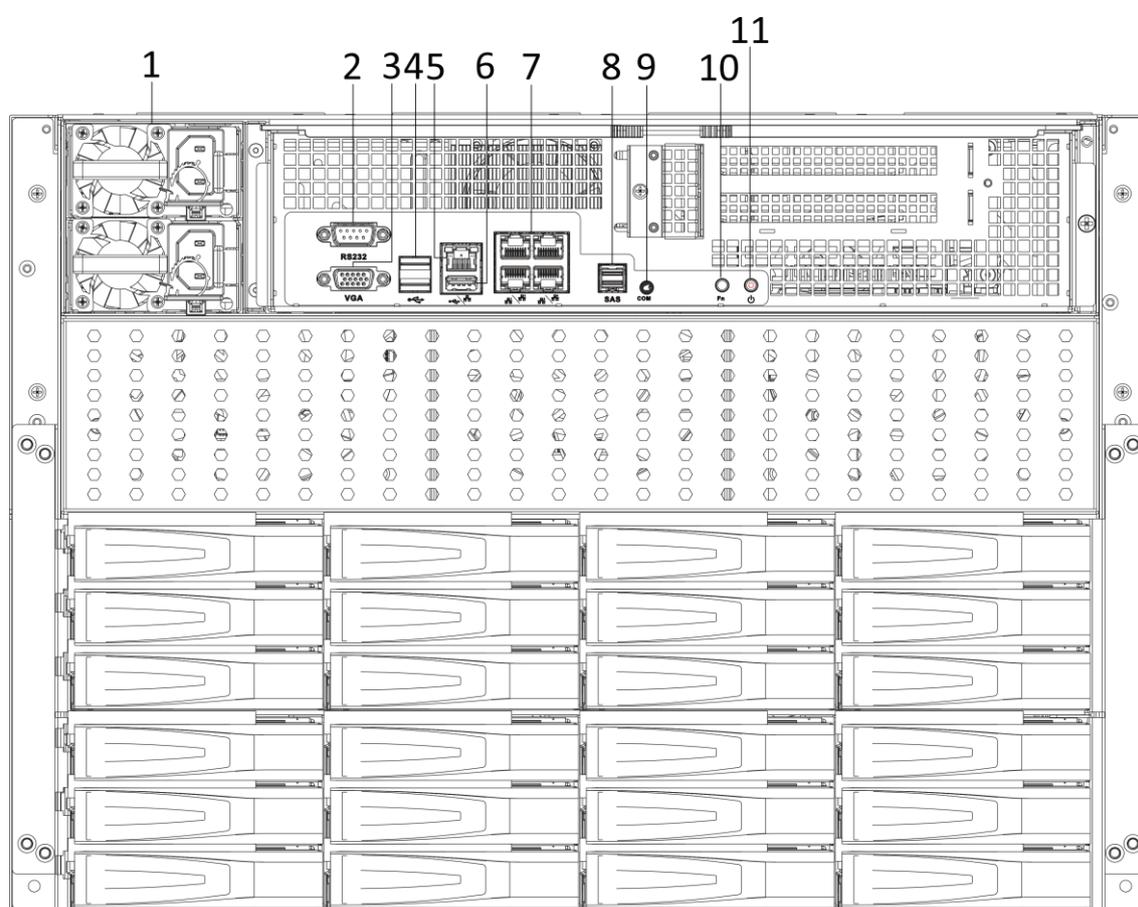
| Network   |  |
|---|--|
| Protocol  | iSCSI, RTSP, ONVIF, PSIA   |
| External interface                              |  |
| USB   | 2*USB3.0, 1*USB2.0   |
| VGA   | Supported  |
| Data network interface                          | 4, 1000M Ethernet interface(4 × GbE or 2 × 10GbE is extendable)  |
| MiniSAS interface                               | 1  |
| COM   | 1  |
| Management network interface                    | 1, 1000M Ethernet interface  |
| Storage   |  |
| HDD slot  | 72   |
| 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 | 512-ch   |
| Hardware  |  |
| Structure                                       | Controller Structure   |
| Processor                                       | 64-bit multi-core processor  |
| Cache   | 8 GB (extendable to 64 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;<br>Hikvision,HK7210AH,10T;<br>Hikvision,HK728TAH,8T;<br>Hikvision,HK726TAH,6T;<br>Hikvision,HK724TAH,4T; |
| General   |  |
| Power supply                                    | Redundant 1200W  |
| Consumption(with HDDs)                          | Working: ≤ 1153  |

|                         |   |
|-------------------------|---|
| Environment temperature | Working: +5 °C to +40 °C (41 °F to 104 °F); Storing: -20 °C to +70 °C (-4 °F to +158 °F)    |
| Humidity                | Working: 20% to 80%RH (non-condensing/frozen); Storing: 5% to 90%RH (non-condensing/frozen) |
| Chassis                 | 8U (19-inch height)   |
| Dimensions(W × D × H)   | 486 x 776x 344 mm (19.1 x 26.9 x 13.8 in)   |
| Weight (without HDDs)   | 53kg  |

▪ **Typical Application**



▪ Physical Interface



| No. | Description              | No. | Description          |
|-----|--------------------------|-----|----------------------|
| 1   | Power module             | 7   | LAN interface 1 to 4 |
| 2   | RS-232 interface         | 8   | SAS interfaces       |
| 3   | VGA interface            | 9   | COM                  |
| 4   | USB interface            | 10  | FN button            |
| 5   | Management LAN interface | 11  | Power switch         |
| 6   | USB interface            |     |                      |

▪ Available Model

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