

DS-A80624S Series Storage System

Introduction

The DS-A80 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 SIP 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

- Modular design.
- 64-bit multi-core processor.
- 4 to 32 GB high-speed cache.
- SAS2.0 and PCI-E2.0 high-speed transmission channel.
- Four 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, and 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.

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)

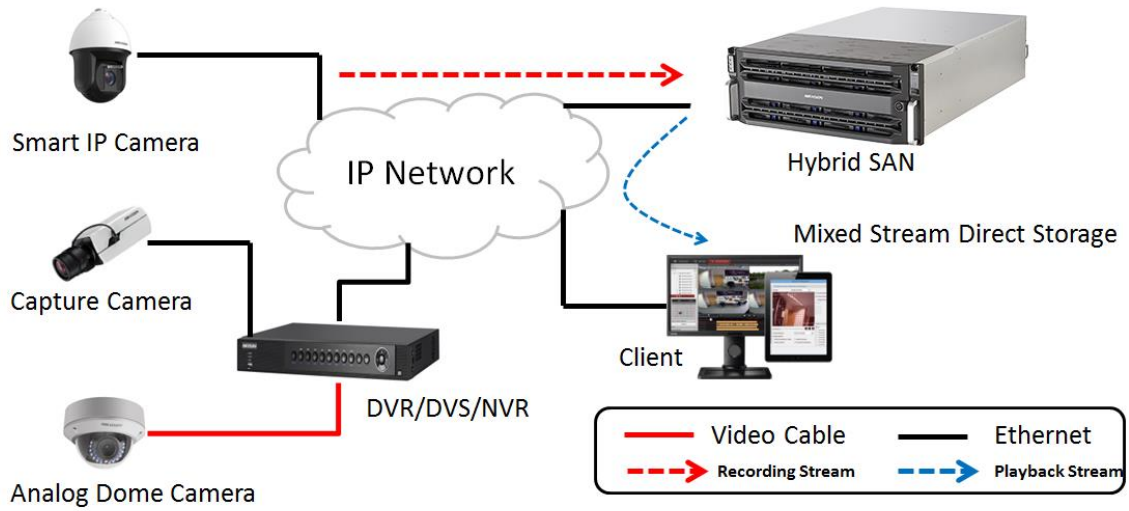
- Space pre-allocation strategy.
- Direct storage for video and picture streams.
- Supports direct IP camera/DVR/NVR streaming and recording.
- Support H264, H264+, H265, H265+.
- Support N+1.
- Supports camera access through RTSP, ONVIF, and PSIA protocol.
- Supports alarm/scheduled/manual recording.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



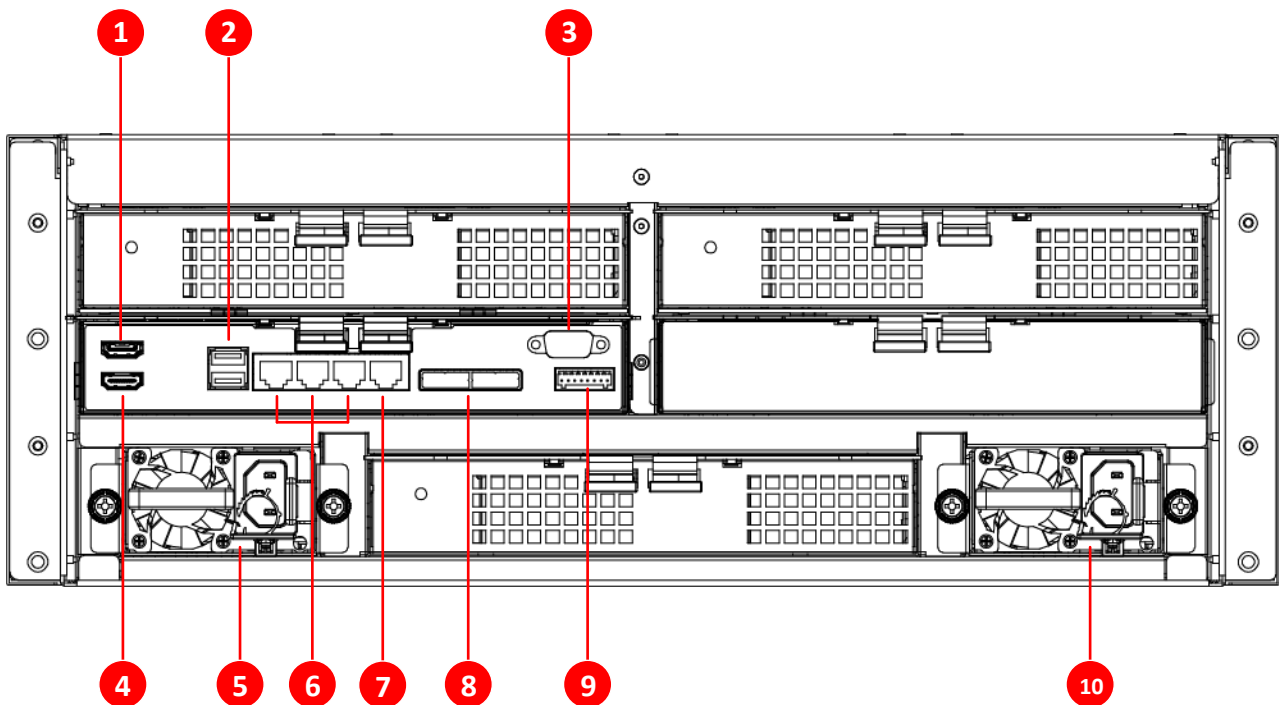
Specification

| Model | | DS-A80624S |
|-----------------------|---|--|
| Performance | Direct Streaming Mode: video (2 Mbps) + picture | 320-ch recording + playback |
| | IPSAN | 180-ch recording + playback |
| Controller | Processor | One controller (64-bit multi-core processor) |
| | Cache | 4 to 32 GB |
| HDD | 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 | Single, RAID(Enterprise Hard Disk) |
| | RAID | RAID 0, 1, 3, 5, 6, 10, 50, VRAID, JBOD, Hot-Spare |
| Network | Protocol | iSCSI, RTSP, ONVIF, PSIA |
| 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, dual-stream 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 no web page |
| External interface | Data network interface | 3, 1000Mbps Ethernet interface |
| | Management network interface | 1, 1000Mbps Ethernet interface |
| | MiniSAS interface | Supported |
| | COM | 1 |
| | USB 3.0 | 2 |
| | Alarm interface | 1 |
| General | HDMI | 2 |
| | Power supply | Redundant |
| | Consumption (with HDDs) | <ul style="list-style-type: none"> ● Working: ≤ 430(1466 BTU with 24 HDDs) ● Rated: ≤ 800 W |
| | Environment temperature | <ul style="list-style-type: none"> ● Working: +5 °C to +40 °C (41 °F to 104 °F) ● Storing: -40 °C to +55 °C (-104 °F to +131 °F) |
| | Environment humidity | <ul style="list-style-type: none"> ● Working: 20% to 80%RH (non-condensing/frozen); ● Storing: 5% to 90%RH (non-condensing/frozen) |
| | Chassis | 4U (19 inches high) |
| | Dimensions (W × H × D) | 484 × 174 × 568 mm (19.1 x 6.9 x 22.4 inch) |
| Weight (without HDDs) | ≤ 33.5 kg (73.9 lb) | |

Typical Application



Physical Interface



| No. | Name | No. | Name |
|-----|------------------|-----|------------------------------|
| 1 | HDMI interface 1 | 6 | Data network interfaces |
| 2 | USB interface | 7 | Management network interface |
| 3 | RS-232 interface | 8 | SAS interface |
| 4 | HDMI interface 2 | 9 | Alarm interface |
| 5 | Power module 1 | 10 | Power module 2 |

Hikvision Tested and Recommended HDDs

Note: It is strongly recommended to use enterprise HDDs in RAID mode and iSCSI application for its stability feature. Please consult with Hikvision sales before using HDDs not listed below.

| HDD model | Capacity (TB) | HDD model | Capacity (TB) |
|---------------|---------------|-----------------|---------------|
| ST12000NM0008 | 12 | ST1000NM0055 | 1 |
| ST10000NM0478 | 10 | WD101KRYZ-01 | 10 |
| ST10000NM0086 | 10 | WD101KRYZ-31 | 10 |
| ST10000NM0016 | 10 | WD8003FRYZ-31 | 8 |
| ST8000NM0055 | 8 | WD8003FRYZ-01 | 8 |
| ST8000NM0016 | 8 | WD6002FRYZ-31 | 6 |
| ST6000NM0024 | 6 | WD4002FYYZ-31 | 4 |
| ST4000NM0024 | 4 | WD2005FBYZ | 2 |
| ST2000NM0024 | 2 | WD6002FRYZ | 6 |
| ST6000NM0115 | 6 | WD4002FYYZ | 4 |
| ST4000NM0115 | 4 | HUS726T4TALA6L4 | 4 |
| ST2000NM0125 | 2 | HUS726T6TALE6L4 | 6 |
| ST4000NM0035 | 4 | HKS728T8TALE-31 | 8 |
| ST3000NM0005 | 3 | HUS728T8TALE6L4 | 8 |
| ST2000NM0055 | 2 | HUH721212ALE-31 | 12 |

Available Model

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