

DS-A80 Series Hybrid SAN

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. This flexible, cost-effective solution features ONVIF-support to third-party cameras such as BOSCH, AXIS, SONY, Samsung etc, support for 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.



Features

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.
- HDD sleeping.

User-Friendly UI

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

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.



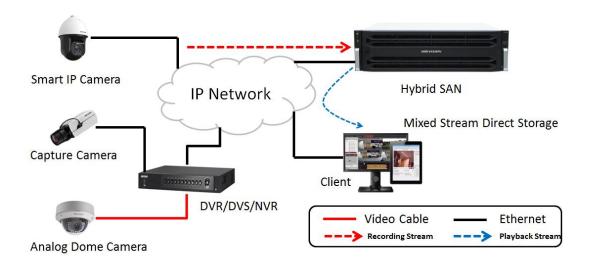


Specification

Direct Streaming Mode: video (12 Mbps) + picture 320-ch recording + playback	Model		DS-A80624S
Processor One controller (64-bit multi-core processor)	Performance		320-ch recording + playback
Cache		IPSAN	180-ch recording + playback
Cache 4 to 32 GB	Controller	Processor	One controller (64-bit multi-core processor)
Interface/capacity SATA/1TB, 2TB, 3TB, 4TB, 6TB Hot-swapping Supported RAID RAID RAID 0, 1, 3, 5, 6, 10, 50, VRAID, JBOD, Hot-Spare Storage Disk management Disk inspection, alarm and repair Logical volume management ISCSI volume, video volume management Recording Video protection Lock key video, N+1 service protection, ANR, video loss detection and alarm Management Searching mode Search by time and event Downloading mode Quick download, batch download, download by segment, download by merging 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 Alarm mode Alarm mode Alarm mode Sound, light, email, message, web page Log downloading Download no web page Data network interface 3, 1000M Ethernet interface MiniSAS interface Supported Interface HDMI 2 Alarm interface 1 HDMI 2 Alarm interface 1 HDMI 2 Power supply Redundant Consumption (with HDDs) National Storage National S		Cache	4 to 32 GB
Hot-swapping Supported RAID R		HDD slot	24
Hot-swapping Supported RAID	HDD	Interface/capacity	SATA/1TB, 2TB, 3TB, 4TB, 6TB
Network Protocol ISCSI, RTSP, ONVIF, PSIA		Hot-swapping	Supported
Disk management Disk inspection, alarm and repair		RAID	RAID 0, 1, 3, 5, 6, 10, 50, VRAID, JBOD, Hot-Spare
Logical volume management	Network	Protocol	iscsi, rtsp, onvif, psia
Logical volume management video protection manual recording, dual-stream recording, alarm recording mode lock key video, N+1 service protection, ANR, video loss detection and alarm lock key video, N+1 service protection, ANR, video loss detection and alarm lock well with management protection, and protection and alarm lock well with management protection, and protecti		Disk management	Disk inspection, alarm and repair
Recording Management Video protection Lock key video, N+1 service protection, ANR, video loss detection and alarm Management Searching mode Search by time and event Device Maintenance Management mode Web-based GUI, serial port CLI, centralized management of multiple devices 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 Data network interface 3, 1000M Ethernet interface Management network interface 1, 1000M Ethernet interface External interface MiniSAS interface Supported USB 3.0 2 Alarm interface 1 HDMI 2 Power supply Redundant Consumption (with HDDs) • Working: ≤ 430(1466 BTU with 24 HDDs) • Rated: ≤ 800 W • Working: ≤ 430(1466 BTU with 24 HDDs) • Rated: ≤ 800 W • Working: 20% to 80%RH (non-condensing/frozen); • Storing: -40 °C to +55 °C (-104 °F to +131 °F) • Working: 20% to 80%RH (non-condensing/frozen); • Storing: 5% to 90%RH (non-condensing/frozen) Chassis 4U (19-inch height) Dimensions (iSCSI volume, video volume management
Management Searching mode Search by time and event Downloading mode Quick download, batch download, download by segment, download by merging 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 Data network interface 3, 1000M Ethernet interface Management network interface 1, 1000M Ethernet interface External interface Supported USB 3.0 2 Alarm interface 1 HDMI 2 Consumption (with HDDs) Redundant Environment temperature Working: 430(1466 BTU with 24 HDDs) Rated: \$800 W Working: +5 °C to +40 °C (41 °F to 104 °F) Storing: -40 °C to +55 °C (-104 °F to +131 °F) Working: 20% to 80%RH (non-condensing/frozen); Chassis 4U (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 x 6.8 x 21.7in)		Recording mode	Timing recording, manual recording, dual-stream recording, alarm recording
Downloading mode Device Maintenance Management mode Multiple devices Alarm mode Log downloading Download no web page Data network interface Management network interface MinisAs interface External Interface COM USB 3.0 Alarm interface HDMI Power supply Consumption (with HDDs) Environment temperature General Environment humidity Chassis Dimensions (W × H × D) Management mode Web-based GUI, serial port CLI, centralized management of multiple devices Web-based GUI, serial port CLI, centralized management of multiple devices Sound, light, email, message, web page Download no web page 3, 1000M Ethernet interface 1, 1000M Ethernet interface 1, 1000M Ethernet interface Supported 1		Video protection	Lock key video, N+1 service protection, ANR, video loss detection and alarm
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 Data network interface 3, 1000M Ethernet interface Management network interface 1, 1000M Ethernet interface MiniSAS interface Supported USB 3.0 2 Alarm interface 1 HDMI 2 Alarm interface 1 HDMI 2 Power supply Redundant Consumption (with HDDs)		Searching mode	Search by time and event
Device Maintenance Maintenance Alarm mode Sound, light, email, message, web page Log downloading Download no web page 3, 1000M Ethernet interface Management network interface 1, 1000M Ethernet interface Interface MiniSAS interface Supported COM 1 USB 3.0 2 Alarm interface 1 HDMI 2 Power supply Redundant Consumption (with HDDs) • Working: ≤ 430(1466 BTU with 24 HDDs) • Rated: ≤ 800 W • Working: +5 °C to +40 °C (41 °F to 104 °F) • Storing: -40 °C to +55 °C (-104 °F to +131 °F) • Working: 20% to 80%RH (non-condensing/frozen); • Storing: 5% to 90%RH (non-condensing/frozen) • Storing: 5% to 90%RH (non-condensing/frozen) Chassis 4U (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 × 6.8 × 21.7in)		Downloading mode	Quick download, batch download, download by segment, download by merging
Maintenance Alarm mode Sound, light, email, message, web page Log downloading Download no web page Data network interface 3, 1000M Ethernet interface Management network interface 1, 1000M Ethernet interface Interface MiniSAS interface Supported USB 3.0 2 Alarm interface 1 HDMI 2 Power supply Redundant Consumption (with HDDs) • Working: ≤ 430(1466 BTU with 24 HDDs) • Rated: ≤ 800 W • Working: +5 °C to +40 °C (41 °F to 104 °F) • Storing: -40 °C to +55 °C (-104 °F to +131 °F) • Working: 20% to 80%RH (non-condensing/frozen); • Storing: 5% to 90%RH (non-condensing/frozen) • Storing: 5% to 90%RH (non-condensing/frozen) Chassis 4U (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 × 6.8 × 21.7in)	Dovino	Management mode	Web-based GUI, serial port CLI, centralized management of multiple devices
Data network interface Management network interface MinisAS interface COM USB 3.0 Alarm interface HDMI Consumption (with HDDs) Environment temperature Fenvironment humidity Chassis Chassis Data network interface 3, 1000M Ethernet interface 1, 1000M Ethernet inte		Alarm mode	Sound, light, email, message, web page
External interface 1, 1000M Ethernet interface MiniSAS interface Supported COM 1 USB 3.0 2 Alarm interface 1 HDMI 2 Power supply Redundant Consumption (with HDDs) • Working: ≤ 430(1466 BTU with 24 HDDs) • Rated: ≤ 800 W Environment temperature • Working: +5 °C to +40 °C (41 °F to 104 °F) • Storing: -40 °C to +55 °C (-104 °F to +131 °F) • Working: 20% to 80%RH (non-condensing/frozen); • Storing: 5% to 90%RH (non-condensing/frozen) Chassis 4U (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 × 6.8 × 21.7in)	Maintenance	Log downloading	Download no web page
Interface		Data network interface	3, 1000M Ethernet interface
COM 1 USB 3.0 2 Alarm interface 1 HDMI 2 Power supply Redundant Consumption (with HDDs) • Working: ≤ 430(1466 BTU with 24 HDDs) • Rated: ≤ 800 W • Working: +5 °C to +40 °C (41 °F to 104 °F) • Storing: -40 °C to +55 °C (-104 °F to +131 °F) • Working: 20% to 80%RH (non-condensing/frozen); • Storing: 5% to 90%RH (non-condensing/frozen) Chassis 4U (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 x 6.8 x 21.7in)			1, 1000M Ethernet interface
$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$		MiniSAS interface	Supported
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$		COM	1
$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$		USB 3.0	2
$\label{eq:General} \begin{tabular}{lllllllllllllllllllllllllllllllllll$		Alarm interface	1
Consumption (with HDDs) • Working: ≤ 430(1466 BTU with 24 HDDs) • Rated: ≤ 800 W • Working: +5 °C to +40 °C (41 °F to 104 °F) • Storing: -40 °C to +55 °C (-104 °F to +131 °F) • Working: 20% to 80%RH (non-condensing/frozen); • Storing: 5% to 90%RH (non-condensing/frozen) Chassis 4U (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 × 6.8 × 21.7in)		HDMI	2
Consumption (with HDDs) ■ Rated: $\leq 800 \text{ W}$ ■ Working: $+5 \text{ °C to } +40 \text{ °C } (41 \text{ °F to } 104 \text{ °F})$ ■ Storing: $-40 \text{ °C to } +55 \text{ °C } (-104 \text{ °F to } +131 \text{ °F})$ ■ Working: $20\% \text{ to } 80\% \text{RH } (\text{non-condensing/frozen})$; ■ Storing: $5\% \text{ to } 90\% \text{RH } (\text{non-condensing/frozen})$ Chassis 4U (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 × 6.8 × 21.7in)	General	Power supply	Redundant
General Environment temperature Storing: -40 °C to +55 °C (-104 °F to +131 °F) Working: 20% to 80%RH (non-condensing/frozen); Storing: 5% to 90%RH (non-condensing/frozen) Chassis 4U (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 × 6.8 × 21.7in)		Consumption (with HDDs)	,
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Chassis 4U (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 × 6.8 × 21.7in)		Environment humidity	Working: 20% to 80%RH (non-condensing/frozen);
Dimensions (W × H × D) 447 × 172 × 550mm (17.6 x 6.8 x 21.7in)		Chassis	
		Weight (without HDDs)	≤33.5kg



Typical Application



Available Models

DS-A80624S

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