

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.



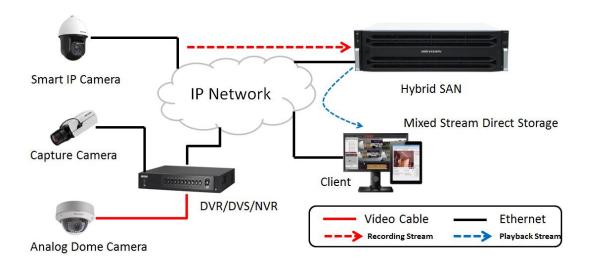


Specification

Direct Streaming Mode: video (2 Mbps) + picture video (3 Mbps) + picture video (4 Mbps) + pict	Model		DS-A80624S
Processor One controller (64-bit multi-core processor)	Performance		320-ch recording + playback
Cache 4 to 32 GB		IPSAN	180-ch recording + playback
Cache 4 to 32 GB	.	Processor	One controller (64-bit multi-core processor)
Interface/capacity SATA/1TB, 2TB, 3TB, 4TB, 6TB,8TB	Controller	Cache	4 to 32 GB
HDD RAID RAID RAID RAID RAID RAID RAID RA	HDD	HDD slot	24
Hots-wapping Supported RAID		Interface/capacity	SATA/1TB, 2TB, 3TB, 4TB, 6TB,8TB
Network Protocol ISCSI, RTSP, ONVIF, PSIA Disk management Disk inspection, alarm and repair Disk management Disk inspection, alarm and repair ISCSI volume, video volume 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 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 Download no		Hot-swapping	Supported
Disk management Disk inspection, alarm and repair		RAID	RAID 0, 1, 3, 5, 6, 10, 50, VRAID, JBOD, Hot-Spare
Storage Management Logical volume management ISCSI volume, video volume management management ISCSI volume, video volume management	Network	Protocol	iscsi, rtsp, onvif, psia
Logical volume management iSCSI volume, video volume management management management management management management management management management management management 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 Management mode Web-based GUI, serial port CLI, centralized management of multiple devices Alarm mode Log downloading Download no web page Data network interface Management network interface Management network interface Nanagement network interface Nanagement network interface Nanagement network interface Log Management network i	_	Disk management	Disk inspection, alarm and repair
Recording Management Video protection Lock key video, N+1 service protection, ANR, video loss detection and alarm Search ing mode Search by time and event 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 Management network interface MinisAS interface Supported interface COM 1 USB 3.0 2 Alarm interface 1 HDMI 2 Power supply Redundant Consumption (with HDDs) Rated: ≤ 800 W Environment temperature Environment temperature For to 104 °F to 5 °C (-104 °F to 104 °F to 1131 °F) Working: ≤ 430 (1466 BTU with 24 HDDs) Storing: -40 °C to +55 °C (-104 °F to 104 °F) Storing: -50 °C to +40 °C (41 °F to 104 °F) 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)			iSCSI volume, video volume management
Searching mode Search by time and event		Recording mode	Timing recording, manual recording, dual-stream recording, alarm recording
Downloading mode Quick download, batch download, download by segment, download by merging Management mode Alarm mode Alarm mode Log downloading Downloading Downloading Download no web page Data network interface Management network interface Xupported Interface External Interface External Interface MiniSAS interface COM I USB 3.0 Alarm interface I HDMI 2 Power supply Redundant Consumption (with HDDs) Environment temperature General General Environment humidity Chassis Dimensions (W × H × D) Alarm interface Alarm interface 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 1, 1000M Ethernet interface Supported Interface Supported Working: 400(1466 BTU with 24 HDDs) Rated: \$800 W Working: 430(1466 BTU with 24 HDDs) Rated: \$800 W Working: 40°C to +55°C (-104°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) 4U (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 × 6.8 × 21.7in)		Video protection	Lock key video, N+1 service protection, ANR, video loss detection and alarm
Device Maintenance Management mode Alarm mode Alarm mode Log downloading Download no web page Data network interface Management network interface External Interface MiniSAS interface Supported USB 3.0 Alarm interface Power supply Consumption (with HDDs) Environment temperature General Management mode Web-based GUI, serial port CLI, centralized management of multiple devices Sound, light, email, message, web page Download no web page 1, 1000M Ethernet interface 1, 1000M Ethernet interface Supported 1 USB 3.0 2 Alarm interface 1 HDMI 2 Redundant 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)		Searching mode	Search by time and event
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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 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)		Management mode	Web-based GUI, serial port CLI, centralized management of multiple devices
Data network interface Management network interface MinisAS interface MinisAS interface COM USB 3.0 Alarm interface HDMI Consumption (with HDDs) Environment temperature General Log downloading Download no web page 3, 1000M Ethernet interface 1, 1000M Ethernet interface 1, 1000M Ethernet interface 1 Working: 400(466 BTU with 24 HDDs) Working: 430(1466 BTU with 24 HDDs) Rated: 4300 W Working: 430(4166 BTU with 24 HDDs) Rated: 4300 W Working: 430(4166 BTU with 24 HDDs) Rated: 430 W Working: 430(4166 BTU with 24 HDDs) Rated: 430 W Working: 430(4166 BTU with 24 HDDs) 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) AU (19-inch height) Dimensions (W × H × D) 447 × 172 × 550mm (17.6 × 6.8 × 21.7in)		Alarm mode	Sound, light, email, message, web page
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interface COM 1 USB 3.0 2 Alarm interface 1 HDMI 2 General 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 × 6.8 × 21.7in)			1, 1000M Ethernet interface
		MiniSAS interface	Supported
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$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$		USB 3.0	2
$\label{eq:consumption} \begin{tabular}{ll} Power supply & Redundant \\ \hline \\ Consumption (with HDDs) & Working: $\le 430(1466\ BTU\ with 24\ HDDs)$\\ \hline & Rated: $\le 800\ W$\\ \hline \\ Environment temperature & Working: $+5\ ^{\circ}C\ to $+40\ ^{\circ}C\ (41\ ^{\circ}F\ to $104\ ^{\circ}F)$\\ \hline & Storing: $-40\ ^{\circ}C\ to $+55\ ^{\circ}C\ (-104\ ^{\circ}F\ to $+131\ ^{\circ}F)$\\ \hline & Working: $20\%\ to $80\%RH\ (non-condensing/frozen);$\\ \hline & Storing: $5\%\ to $90\%RH\ (non-condensing/frozen)$\\ \hline & Chassis & 4U\ (19-inch\ height)$\\ \hline & Dimensions\ (W\times H\times D) & 447\times 172\times 550mm\ (17.6\times 6.8\times 21.7in)$\\ \hline \end{tabular}$		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 • U (19-inch height) Dimensions (W × H × D) • 447 × 172 × 550mm (17.6 × 6.8 × 21.7in)		HDMI	2
General Consumption (with 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) Environment humidity Environment humidity 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)	General	Power supply	Redundant
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Dimensions (W × H × D) 447 × 172 × 550mm (17.6 x 6.8 x 21.7in)		Environment humidity	
		Chassis	4U (19-inch height)
Weight (without HDDs) ≤ 33.5kg		Dimensions (W × H × D)	447 × 172 × 550mm (17.6 x 6.8 x 21.7in)
		Weight (without HDDs)	≤ 33.5kg



Typical Application



Available Models

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