DS-A81 Series Enterprise Network Storage

Introduction

The DS-A81 series is an economical controller-structure network storage for large-scale project with high demands on data safety. It supports JBOD extension to expand the storage space with mini-SAS interface, providing large storage capacity for recordings.

Features

Economical and Stable Hardware Platform
- Modular and no-cable design and SBB 2.0 structure.
- 64-bit multi-core processor.
- 4 GB high-speed cache.
- Two 1000M network interfaces.
- 6G SAS high-speed transmission channel.
- Redundant design for key modules.

HDD Detection and Repair/RAID Optimization
- Detection before operation.
- Detection in operation.
- Fault reparation.
- RAID 0, 1, 3, 5, 6, 10, 50, and VRAID.
- Global and local hot spare.
- Supports building RAID with surveillance-class HDD.
- 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
- Quick configuration.
- Various alarm management.
- SADP protocol supported.
- SNMP supported.

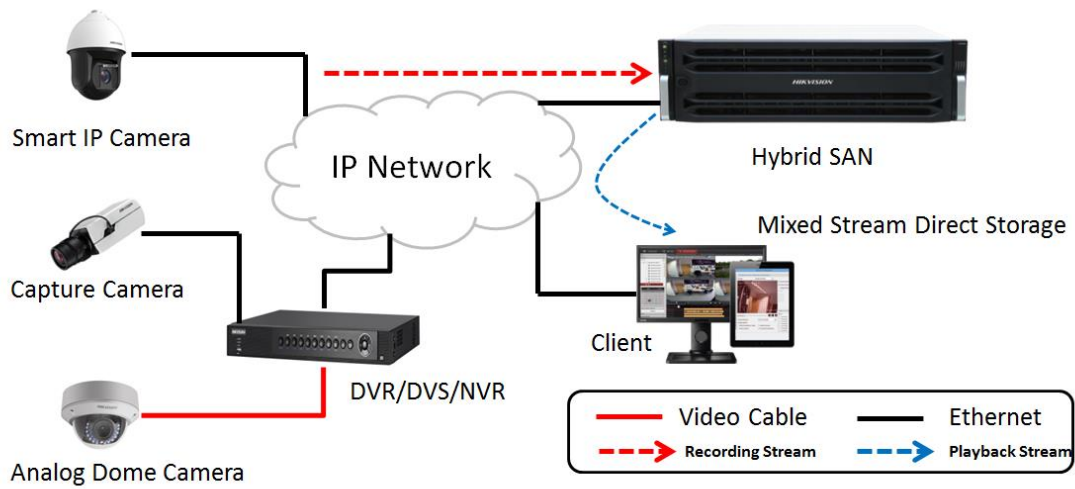### Surveillance-Specialized Stream Media Direct Storage (Direct Streaming Mode)
- Space pre-allocation strategy.
- Direct storage for video and picture streams.
- Supports direct IP camera/DVR/NVR streaming and recording.
- Supports camera access through RTSP, ONVIF, and PSIA protocol.
- Supports alarm/scheduled/manual recording.
- N+1 technology.
- 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-A81016S	DS-A81024D
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)	Dual controller (64-bit multi-core processor)
	Cache	4 GB (extendable to 8 GB)	Each controller :4 GB (extendable to 32 GB)
HDD	HDD slot	16	24
	Interface/capacity	SATA/1TB, 2TB, 3TB, 4TB, 6TB	SAS, NL-SAS/1TB, 2TB, 3TB, 4TB, 6TB
	Hot-swapping	Supported	
	RAID	RAID0, 1, 3, 5, 6, 10, 50, VRAID, JBOD, Hot-spare	RAID0, 1, 3, 5, 6, 10, 50, JBOD, Hot-spare
Network	Protocol	iSCSI, RTSP, ONVIF, PSIA	
Interfaces	Data network interface	2 (extendable to 6), 1000M Ethernet interface. (10GbE is optional.)	Each controller: 4, 1000M Ethernet interface. (8 x 1GbE, 2 x 10GbE, or 2 x 8GbF is extendable)
	Management network interface	1, 100M Ethernet interface	1, 100M Ethernet interface
	MiniSAS interface	Supported	
	COM	2: 1 for Hyper Terminal, 1 for mobile alarm or UPS	Each controller: 2, 1 for Hyper Terminal, 1 for UPS
	USB	2	2 per controller
	VGA	1	None
General	Power supply	Gold-metal redundant power supply	
	Consumption (with HDDs)	• Working: ≤ 255 W (870 BTU with 16 HDDs) • Rated: ≤ 550 W	• Working: ≤ 507 W (1729 BTU with 24 HDDs) • Rated: ≤ 800 W
	Environment temperature	• Working: +5 °C to +40 °C (41 °F to 104 °F) • Storing: -20 °C to +70 °C (-4 °F to +158 °F)	• Working: +5 °C to +40 °C (41 °F to 104 °F) • Storing: -40 °C to +55 °C (-40 °F to 131 °F)
	Environment humidity	• Working: 20% to 80%RH (non-condensing/frozen) • Storing: 5% to 90%RH (non-condensing/frozen)	
	Chassis	3U (19-inch height)	4U (19-inch height)
	Dimensions (W × H × D)	440 x 132 x 495 mm (17.3 x 5.2 x 19.5 in)	447 x 172 x 550 mm (17.6 x 6.8 x 21.7 in)
	Weight (without HDDs)	≤ 20 Kg (44.1 lb)	≤ 33.5 Kg (73.9 lb)

Typical Application

Available Models

DS-A81016S, DS-A81024D

000308170207