

## DS-A81 Series CVR 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 (CVR)

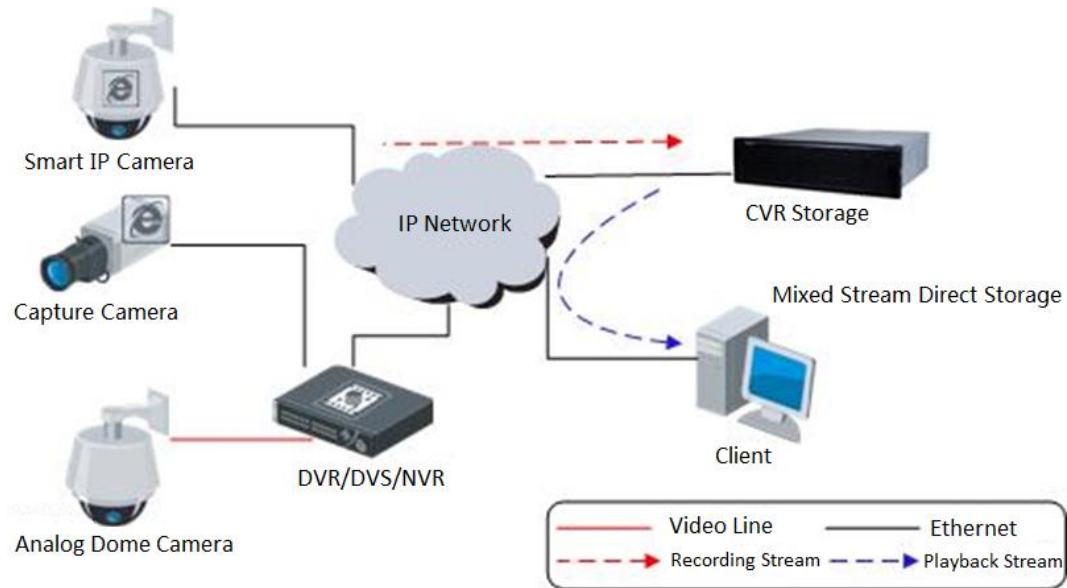
- Space pre-allocation strategy.
- Direct storage for video and picture streams.
- Supports direct IP camera/DVR/NVR streaming and recording.
- Supports camera access through RTSP, ONVIF, and PSIA protocol.
- Supports alarm/scheduled/manual recording.
- N+1 technology.
- Automatic network replenishment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



## Specification

Model		DS-A81016S	DS-A81024D
Performance	Recording 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)	<ul style="list-style-type: none"> <li>● Working: ≤ 255 W (870 BTU with 16 HDDs)</li> <li>● Rated: ≤ 550 W</li> </ul>	<ul style="list-style-type: none"> <li>● Working: ≤ 507 W (1729 BTU with 24 HDDs)</li> <li>● Rated: ≤ 800 W</li> </ul>
	Environment temperature	<ul style="list-style-type: none"> <li>● Working: +5 °C to +40 °C (41 °F to 104 °F)</li> <li>● Storing: -20 °C to +70 °C (-4 °F to +158 °F)</li> </ul>	<ul style="list-style-type: none"> <li>● Working: +5 °C to +40 °C (41 °F to 104 °F)</li> <li>● Storing: -40 °C to +55 °C (-40 °F to 131 °F)</li> </ul>
	Environment humidity	<ul style="list-style-type: none"> <li>● Working: 20% to 80%RH (non-condensing/frozen)</li> <li>● Storing: 5% to 90%RH (non-condensing/frozen)</li> </ul>	
	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

Distributed by



## HIKVISION

### Headquarters

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
overseasbusiness@hikvision.com

**Hikvision USA**  
T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision Europe**  
T +31-23-55-42-770  
info.eu@hikvision.com

**Hikvision Middle East**  
T +971-4-8816086  
salesme@hikvision.com

**Hikvision Russia**  
T +7-495-669-67-99  
saleru@hikvision.com

**Hikvision India**  
T +91-22-28469900  
sales@pramahikvision.com

**Hikvision Italy**  
T +39-0438-6902  
info.it@hikvision.com

**Hikvision France**  
T +33(0)1-85-330-450  
info.fr@hikvision.com

**Hikvision Spain**  
T +34-91-737-16-55  
info.es@hikvision.com

**Hikvision Poland**  
T +48-22-460-01-50  
poland@hikvision.com

**Hikvision UK**  
T +01628-902140  
support.uk@hikvision.com

**Hikvision Singapore**  
T +65-6684-4718  
sg@hikvision.com

**Hikvision Oceania**  
T +61-2-8599-4233  
salesau@hikvision.com

**Hikvision Canada**  
T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision Korea**  
T +82-31-731-8841  
sales.korea@hikvision.com

**Hikvision Brazil**  
T +55 11 3318-0050  
Latam.support@hikvision.com

**Hikvision Africa**  
T +27 (10) 0351172  
sale.africa@hikvision.com

**Hikvision Hong Kong**  
T +852-2151-1761