DS-A81048S/UHK
48-slot Single Controller Storage

Introduction

The DS-A81 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 ONVIF 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
- 64-bit multi-core processor.
- 32 to 128 GB high-speed cache.
- PCI-E3.0 high-speed transmission channel,support 4 × GbE or 2 × 10GbE is extendable
- Five 10M/100M/1000M network interfaces.
- Redundant design for key modules.
- 8U chassis model supports 48 HDDs.

HDD Detection and Repair/RAID Optimization
- Detection before operation.
- Detection in operation.
- Fault repair.
- RAID 0, 1, 3, 5, 6, 10, 50.
- Global and local hot spare.
- Quick RAID building.
- Capability of cascading up

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.

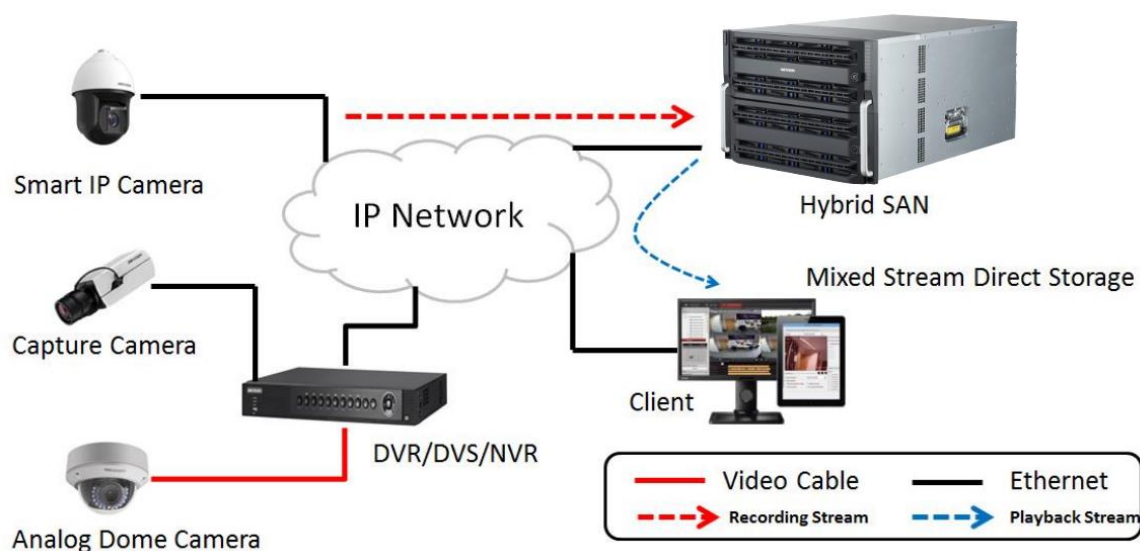### Surveillance-Specialized Stream Media Direct Storage (Direct Streaming Mode)
- Space pre-allocation strategy.
- Direct storage for video and picture streams.
- Supports direct IP camera/DVR/NVR streaming and recording.
- Support H264, H264+, H265, H265+.
- Support N+M.
- Supports camera access through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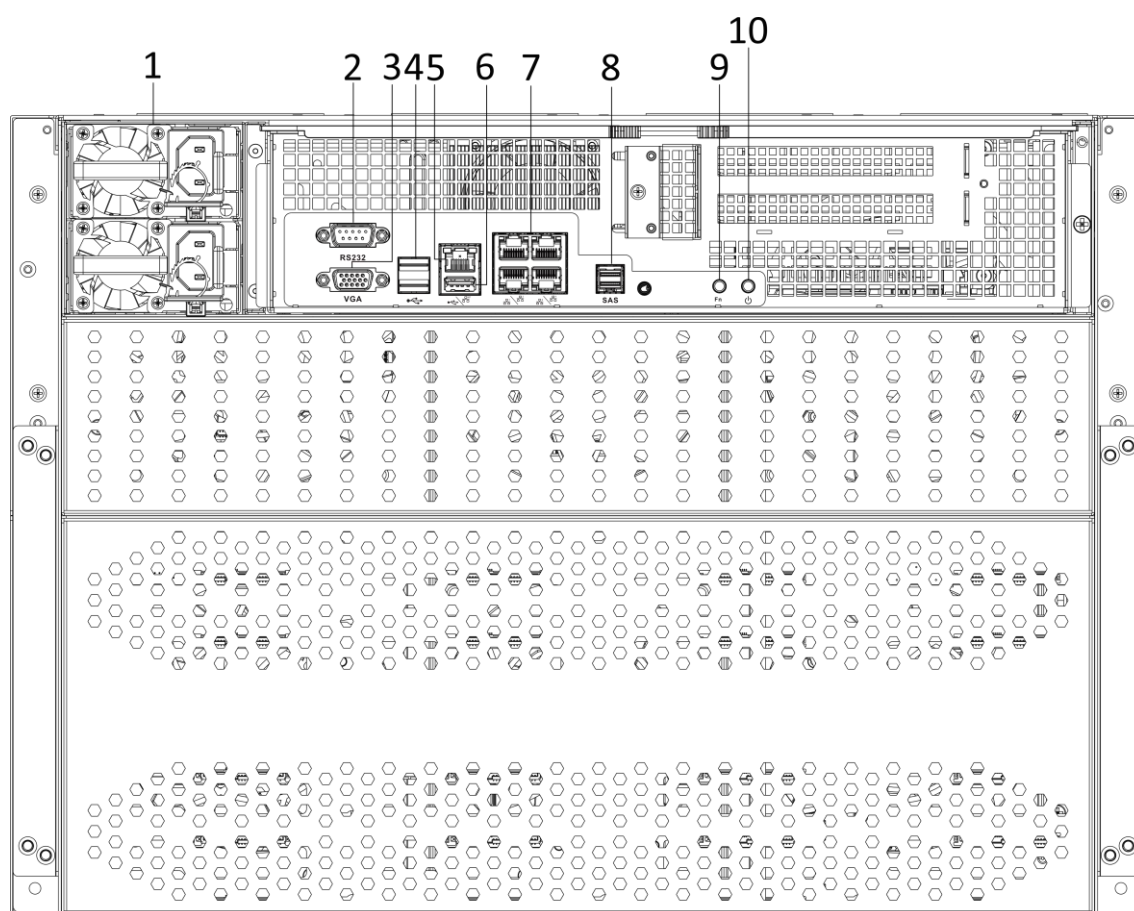- Search, play, and download videos by video type or video time.

▪ Specification

Network	
Protocol	iSCSI, RTSP, ONVIF, PSIA
External interface	
USB	2*USB3.0，1*USB2.0
VGA	Supported
Data network interface	4, 1000M Ethernet interface(4 × GbE or 2 × 10GbE is extendable)
MiniSAS interface	1
COM	1
Management network interface	1, 1000M Ethernet interface
Storage	
HDD slot	48
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	RAID(Enterprise Hard Disk)
RAID	RAID 0, 1, 3, 5, 6, 10, 50,JBOD, Hot-Spare
Performance	
Direct Streaming Mode: video (2 Mbps) + picture	512-ch
Hardware	
Structure	Controller Structure
Processor	64-bit multi-core processor
RAM	32 GB (extendable to 128 GB)
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, alarm recording
Video protection	Lock key video, N+M 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 on web page
HDD	
HDD Model	Hikvision,HK7216AH,16T; Hikvision,HK7210AH,10T; Hikvision,HK728TAH,8T; Hikvision,HK726TAH,6T; Hikvision,HK724TAH,4T;
General	
Power supply	Redundant 1200W
Consumption(with HDDs)	Working: ≤ 850

Environment temperature	Working: +5 °C to +40 °C (41 °F to 104 °F);Storing: -20 °C to +70 °C (-4 °F to +158 °F)
Humidity	Working: 20% to 80%RH (non-condensing/frozen); Storing: 5% to 90%RH (non-condensing/frozen)
Chassis	8U (19-inch height)
Dimensions(W × D × H)	486 x776 x 344 mm (19.1 x 26.9 x 13.8 in)
Weight (without HDDs)	48kg

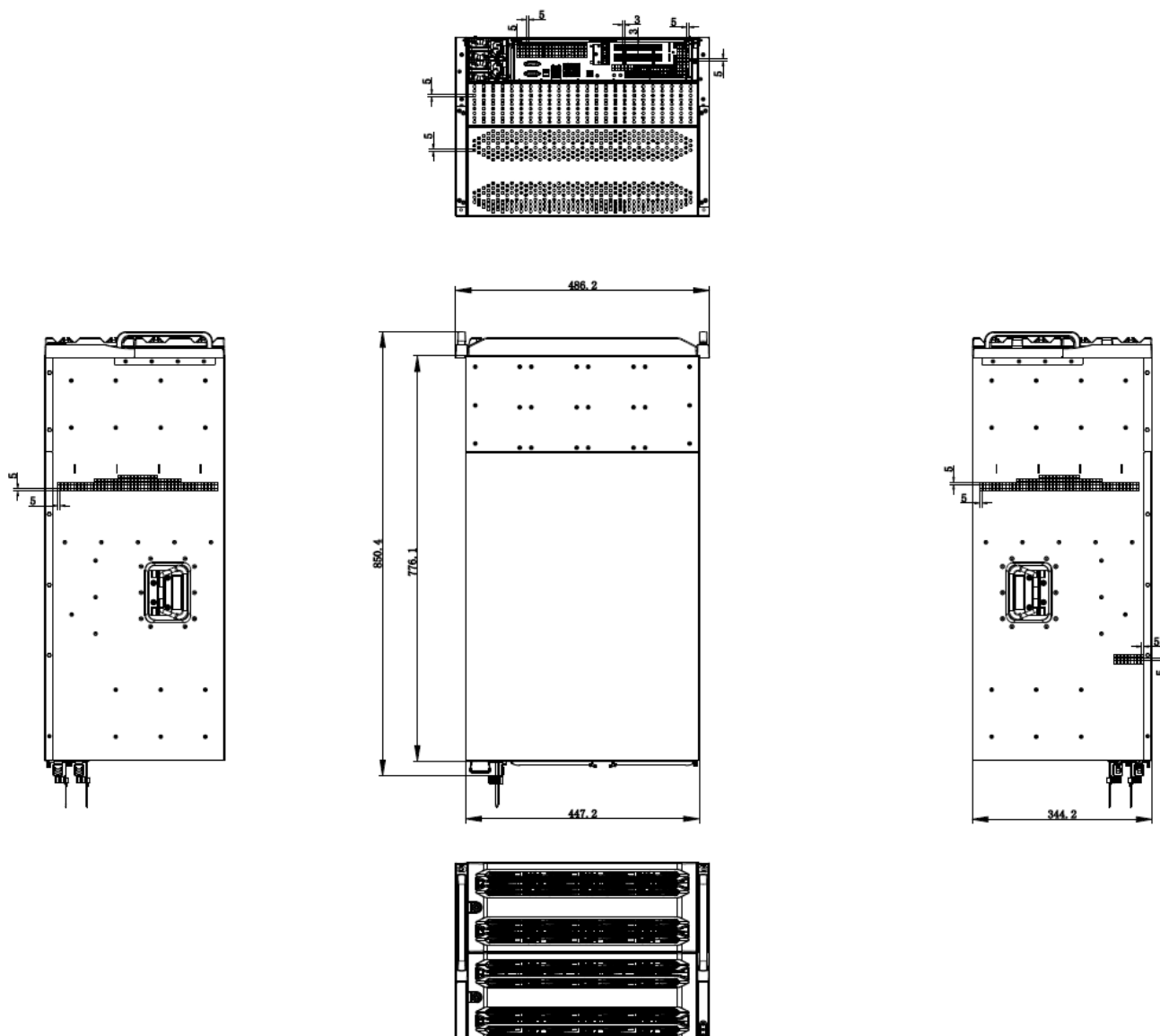## ▪ Typical Application

▪ Physical Interface

No.	Description	No.	Description
1	Power module	6	USB interface
2	RS-232 interface	7	LAN interface 1 to 4
3	VGA interface	8	SAS interface
4	USB interface	9	FN button
5	Management LAN interface	10	Power switch

▪ Available Model

DS-A81048S/UHK

▪Dimension

Follow us on social media to get the latest product and solution information.

in Hikvision   f HikvisionHQ   🐦 HikvisionHQ   💬 Hikvision_Global   ▶ Hikvision Corporate Channel   📷 hikvisionhq