

## DS-AT1000S/320 Series Storage System

### Introduction

DS-AT1000S/320 series storage system is a storage product with huge capacity and high-density design. A 3U chassis provides up to 320 TB capacity. Compared to general storage product, DS-AT1000S reduces the total cost. iRAID technology realizes an intensive management for storage space and data, and protects the data security from substructure. Support periodic HDD replacement, which guarantees the product availability.



### Key Feature

#### Huge Capacity and High Density

- A 3U chassis provides up to 320 TB capacity
- High-density design reduces the installation space requirement and transportation cost

#### Low consumption

For 20 TB enterprise HDD, lower consumption for each terabyte

#### Security and Reliability

- iRAID technology and N + M redundant mechanism allow up to 2 error HDDs in a single RAID
- HDD encryption technology protects data security by only allowing Hikvision device to read the data in HDD

#### Maintenance-Free

- Rebuild fault HDD on-demand
- HDD periodic automatic replacement

#### Stream Data Management Structure of High Performance

Based on the bottom layer management structure of the stream media, it solves the problem that the damaged file system will lead to file unreadability or loss and ensures no file fragments will be produced during overwriting

#### Direct Storage of Mixed Stream

- Supports mixed storage of video stream and SMART stream
- Supports camera access through protocols including RTSP, ONVIF, etc.

#### iRAID

Erasur encoding and iRAID technologies ensure data integrity even when 2 HDDs in a single RAID are failed. If the number of error HDD exceeds redundant limit, other HDDs can still be read and written

#### Abundant Application

- Continuous recording, manual recording, and alarm recording

#### User-Friendly Operation and Maintenance

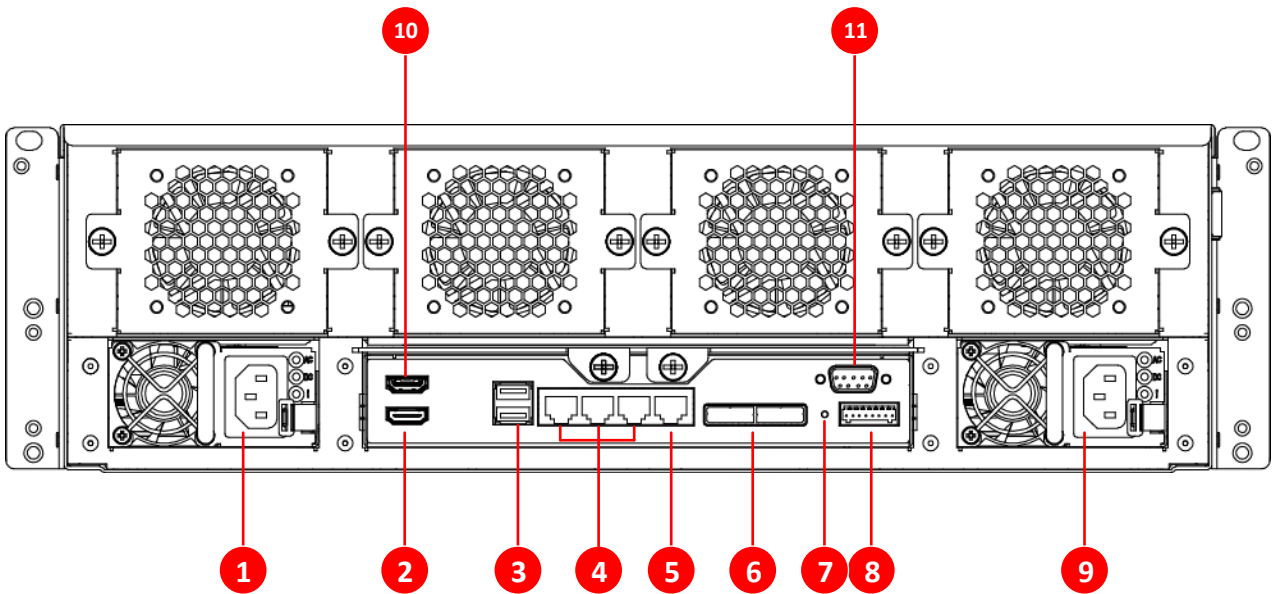
- Supports one-key configuration to improve system configuration efficiency
- Raises device maintenance efficiency via abundant alarm management methods, like alarm via indicators, and emails.



## Specification

Model		DS-AT1000S/320
Performance	Video (2 Mbps stream + rebuilding)	256-ch
Controller	Processor	64-bit multi-core processor
	Cache	12 GB, extendable to 32 GB
Storage	HDD slot	16 (the device is packaged with 16 HDDs)
	Interface	SATA
	Capacity	Up to 20 TB per HDD
	RAID	iRAID, RAID5, RAID6
	Disk	Disk detection pre-alarm and repair
	Logical volume	Recording volume management
Recording	Recording type	Continuous recording, manual recording, and alarm recording
	Video protection	Video loss alarm
	Search and download	Log in storage system to search, play, and download videos. Support searching videos by time, and event type
Maintenance and Management	Management method	GUI based on web, serial port CLI, platform
	Alarm method	Audio, indicator, GUI
Network	Protocol	RTSP, ONVIF, HKSDK
External interface	Data network interface	3, 1000 Mbps Ethernet interface
	Management network interface	1, 1000 Mbps Ethernet interface
	SAS interface	2
	COM interface	1, RS-232
	USB interface	2, USB 3.0
	HDMI interface	2
	VGA interface	Supported (VGA and RS-232 interface cannot be used at the same time)
General	Power supply	100 to 127 VAC or 200 to 320 VAC/47 to 63Hz, redundant power supply
	Power consumption (with HDDs)	≤ 255 W
	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>
	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>
	Dimensions (W × D × H)	440 × 132 × 495 mm (14.3 × 5.2 × 19.5 inch)
	Weight (without HDDs)	≤ 20 kg (44.1 lb)

## Physical Interface



No.	Name	No.	Name
1	Power module 1	7	Reset button
2	HDMI inteface 1	8	Alarm interface
3	USB interface	9	Power module 2
4	Data network interface 1 to 3	10	HDMI interface 2
5	Management network interface	11	RS-232 interface
6	SAS interface		

## Available Model

DS-AT1000S/320

Distributed by

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