

## DS-AT1000S/300 Series Storage System

### Introduction

DS-AT1000S/300 series storage system is a storage product with huge capacity and high-density design. A 3U chassis provides up to 300 TB capacity. Compared to general storage product, DS-AT1000S reduces 20% total cost at least. 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 300 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

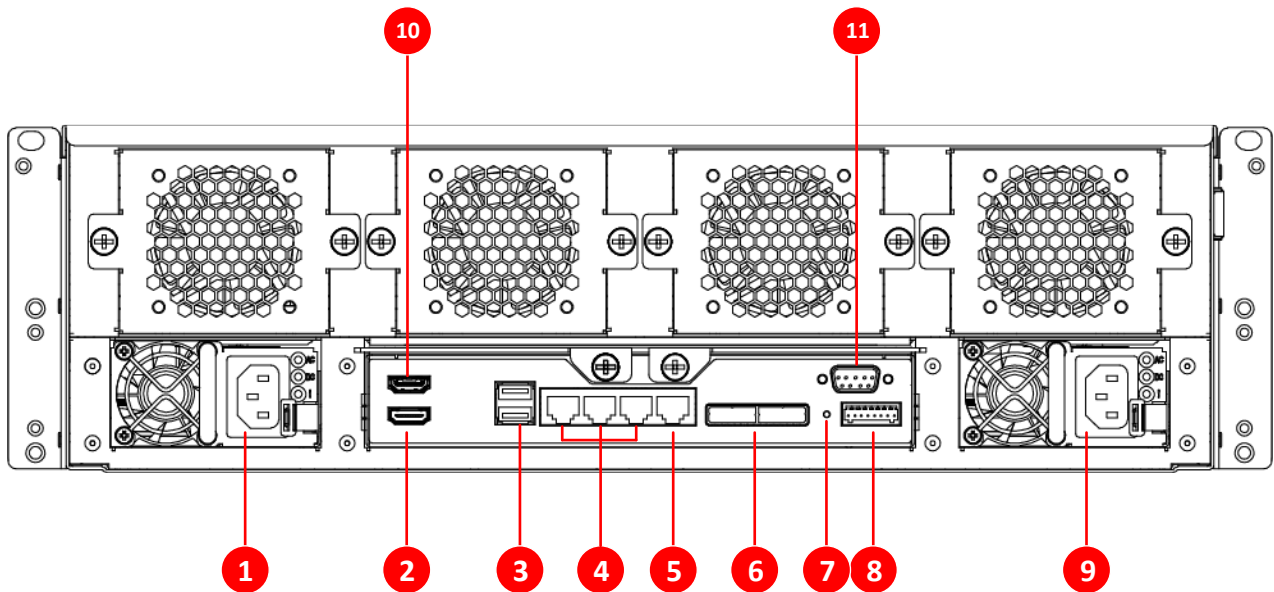
- Supports one-key configuration to improve system configuration efficiency
- Raises device maintenance efficiency via abundant alarm management methods, like alarm via indicators, and emails.



## Specification

| Model                      |                                    | DS-AT1000S/300                                                                                                                                          |
|----------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 15 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 300 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   | Managemet network interface   | 11  | RS-232 interface |
| 6   | SAS interface                 |     |                  |

## Available Model

DS-AT1000S/300

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