DS-AT1000S/500/25T Series Storage System

Introduction

DS-AT1000S/500/25T series storage system is a storage product with huge capacity and high-density design. A 4U chassis provides up to 600 TB capacity. Compared to general storage product, DS-AT1000S reduces the total cost at up to 50%. 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 4U chassis provides up to 600 TB capacity
- High-density design reduces the installation space requirement and transportation cost

Low consumption

For 25 TB enterprise HDD, lower consumption for each terabyte at 50%

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

Erasure 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/500/25T
Performance	Video (2 Mbps stream + rebuilding)	400-ch
Controller	Processor	64-bit multi-core processor
	Cache	16 GB
Storage	HDD slot	24 (the device is packaged with 20 HDDs)
	Interface	SATA
	Capacity	Up to 25 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	4, 1000 Mbps Ethernet interface
	Management network interface	1, 1000 Mbps Ethernet interface
	SAS interface	1
	COM interface	1, RS-232
	USB interface	2 × USB 3.0, 1 × USB 2.0
	VGA interface	Supported (VGA and RS-232 interface cannot be used at the same time)
General	Power supply	Redundant power supply
	Power consumption (with HDDs)	≤ 550W
	Environment temperature	● Working: 5 °C to 40 °C (41 °F to 104 °F) ● Storing: -20 °C to +70 °C (-4 °F to +158 °F)
	Environment humidity	● Working: 20% to 80% RH (non-condensing/frozen) ● Storing: 5% to 90% RH (non-condensing/frozen)
	Dimension (W × H × D)	484 x 684 x 174 mm (19.1 x 26.9 x 6.9 in) 4U (19-inch height)
	Weight (without HDDs)	≤ 40 kg (88.2 lb)

Available Model

DS-AT1000S/500/25T

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