

## DS-A72XX-CVS Storage System



### Features and Functions

#### High Reliability Design

- Redundancy design for key parts; modular drawer design.
- Cluster-based technology to implement load balance and backup among storage nodes.
- Supports automatic network replenishment (ANR) to restore videos during network disconnection.
- The cloud backup function stores multiple copies of a single video within the cloud storage system; supports internal cloud backup and multiple-cloud backup.

#### High Performance Application

- Based on discrete storage technology, multiple devices are able to respond simultaneously to data read/write services, finish massive data search at second level, and download data at high speed.
- Based on virtualization technology, all storage nodes are virtualized as a unified resource which is accessible through specified port; storage space can be flexibility divided and can be adjust dynamically without data loss.
- A single device can respond to the concurrent writing requests of several hundred video channels.
- Supports frame analysis and offers key frame search and playback.
- Supports video stream frame extraction storage.

#### Cost-efficient System

- Supports direct video storage. No stream media server is required.
- Supports stream forwarding. No media switch server is required.

#### Efficient Maintenance Service

- Complete maintenance system, with provided maintenance tools.
- Operating status monitoring for CPU, memory, NIC and HDD.
- Active alarm for software and hardware failures.
- Active alarm for device failure and disconnection.

#### High Scalability

- Increase storage space and performance by stacking and cascading without interrupting services. Easily and quickly expand your storage capacity at TB or even PB level.

#### HDD Detection

- Pre-detection before using HDD.
- In-process detection when using HDD.
- Restoration and recovery technology after HDD failure.



**RAID Optimization**

- Supports RAID 0, 1, 3, 5, 6, 10, 50.
- Instant application of RAID mode; supports dynamic online expansion of logical volume.

**Green & Energy-efficient**

- CPU dynamically adjusts operating frequency according to workload.
- Intelligent fan speed adjustment; higher heat dissipation efficiency and lower noise.
- High quality power supply to increase power conversion efficiency and reduce power loss.

**Compatible & Open**

- Provides complete API interfaces for third-party cloud storage system connection.
- Supports standard ONVIF access.
- Supports Smart IPC access.

**Software Module**

- Cloud Video Access (CVA): Recording task management, recording service and device status management, etc.
- Cloud Video Storage (CVS): Video data read/write operation.

## Specifications

| Model              |                                      | DS-A72024R-CVS  | DS-A72048R-CVS                               |
|--------------------|--------------------------------------|---|--|
| Performance        | Video: recording + playback (2 Mbps) | 300-ch + 64-ch  | 360-ch + 32-ch                               |
|                    | Controller                           | <b>Processor</b> 2 × Xeon hexa-core processor<br><b>Cache</b> 16 GB (extendable to 64 GB)<br><b>SSD</b> 64 GB |  |
| Storage            | HDD slot                             | 24  | 48   |
|                    | Interface                            | SATA (SSD optional)   |  |
|                    | Capacity                             | 1 TB, 2 TB, 3 TB, 4 TB, 6 TB, 8 TB  |  |
|                    | Hot-plugging                         | Supported   |  |
|                    | RAID                                 | RAID 0, 1, 3, 5, 6, 10, 50, JBOD, hot spare   |  |
| Software module    | CVA                                  | Device access management, recording schedule, stream forwarding, VCA  |  |
|                    | CVS                                  | Video access service, storage space management, data read/write   |  |
|                    | Storage management                   | StorOS storage system, RAID management, HDD detection and restoration, alarm                                  |  |
| External interface | Data                                 | 4, 1000M Ethernet interface, extendable to 4 × GE or 2 × 10GE   |  |
|                    | Management                           | 1, 100M Ethernet interface  |  |
|                    | COM                                  | 1   |  |
|                    | USB                                  | 4   |  |
|                    | VGA                                  | 1   |  |
| General            | Power supply                         | Redundant power supply  |  |
|                    | Power Consumption (with HDD)         | Operating: ≤ 410 W<br>Rated: ≤ 875 W  | Operating: ≤ 620 W<br>Rated: ≤ 1360 W        |
|                    | Temperature                          | Operating: 5 °C to 35 °C (41 °F to 95 °F)<br>Storing: -20 °C to +70 °C (-4 °F to +158 °F)                     |  |
|                    | Humidity                             | Operating: 20% to 80% RH (non-condensing/frozen)<br>Storing: 5% to 90% RH (non-condensing/frozen)             |  |
|                    | Chassis                              | 19-inch 4U standard chassis   | 19-inch 8U standard chassis                  |
|                    | Dimensions (W × D × H)               | 430 × 730 × 180 mm (16.9 × 28.7 × 7.1 inch)   | 447 × 843 × 344 mm (17.6 × 33.2 × 13.5 inch) |
|                    | Weight (without HDD)                 | ≤ 40 kg (88.2 lb)   | ≤ 50 kg (110.2 lb)                           |

## Available Models

DS-A72024R-CVS, DS-A72048R-CVS

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