Introduction
The DS-A72 series is the high-performance and high-reliability enterprise-class storage solution, offering 4 to 8 Gbps bandwidth and large-scale storage space. With dual 64-bit multi-core processors, reliable structure and RAID 6 technology, the product meets requirements of high performance and strictly ensures data security.

Features and Functions

High-performance and Scalable Hardware Platform
- Modular design.
- Dual 64-bit multi-core processor.
- 8 to 128 GB high-speed cache.
- SAS2.0 and PCI-E2.0.
- 4U chassis, 24/36 HDDs; 8U chassis, 48/72 HDDs.
- Four to eight 1000M network interface, supporting SAS cascading, scalable 10G network interface.

HDD Detection and Repair/RAID Optimization
- Detection before operation.
- Detection in operation.
- Fault repair.
- RAID 0, 1, 3, 5, 6, 10, 50, VRAID.
- Global and local hot spare.
- Quick RAID building.
- Capability of cascading up to two storage enclosures behind a single SAS port.

Advanced Data Protection
- Synchronous backup of key information in system disk and HDD.
- RAID-based tamper-proof data technology.
- Auto data synchronization between devices.
- Volume clone technology.

Energy Efficient
- CPU load balance.
- Auto fan tuning.
- HDD sleeping.

User-Friendly UI
- Quick configuration
- Varied alarm management.
- SADP protocol supported.
- SNMP supported.

Surveillance-Specialized Direct Storage (Direct Streaming Mode)
- Space pre-allocation strategy.
- Direct storage for mixed video.
- Support direct IP camera/DVR/NVR streaming and recording.
- Support camera access through RTSP, ONVIF and PSIA protocol.
- Support alarm/scheduled/manual recording.
- Automatic network replenishment (ANR), timely uploading, and video loss alarm.
- Internal/external backup of data.
- Lock key videos.
- Search, play, and download videos by video type or video time.
# Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>DS-A72024R</th>
<th>DS-A72072R</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Performance</strong></td>
<td>Direct Streaming Mode: video (2 Mbps) + picture</td>
<td>820-ch recording + playback</td>
</tr>
<tr>
<td>Controller</td>
<td>Processor</td>
<td>Dual 64-bit multi-core processor</td>
</tr>
<tr>
<td></td>
<td>Cache</td>
<td>8 GB (extendable to 128 GB)</td>
</tr>
<tr>
<td>Storage</td>
<td>HDD slot</td>
<td>24</td>
</tr>
<tr>
<td>Interface/capacity</td>
<td>SATA/1 TB, 2 TB, 3 TB, 4 TB, 6 TB, 8TB,10TB,12TB</td>
<td></td>
</tr>
<tr>
<td>Hot-swapping</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>RAID</td>
<td>RAID 0, 1, 3, 5, 6, 10, 50, VRAID, JBOD, hot spare</td>
<td></td>
</tr>
<tr>
<td>Network</td>
<td>Protocol</td>
<td>iSCSI, RTSP, ONVIF, PSIA</td>
</tr>
<tr>
<td>External interface</td>
<td>Data</td>
<td>4, 1000M Ethernet interface (4 × 1GbE or 2 × 10GbE is extendable)</td>
</tr>
<tr>
<td></td>
<td>Management</td>
<td>1, 100M Ethernet interface</td>
</tr>
<tr>
<td></td>
<td>SAS</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>COM</td>
<td>1, for HyperTerminal or UPS</td>
</tr>
<tr>
<td></td>
<td>USB</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>VGA</td>
<td>1</td>
</tr>
<tr>
<td>General</td>
<td>Power supply</td>
<td>Redundancy (1 + 1)</td>
</tr>
<tr>
<td></td>
<td>Consumption (with HDDs)</td>
<td>● Operating: ≤ 410 W (1398 BTU with 24 HDDs)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Rated: ≤ 875 W</td>
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<tr>
<td></td>
<td>Temperature</td>
<td>● Operating: 5 °C to 35 °C (41 °F to 95 °F)</td>
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<tr>
<td></td>
<td></td>
<td>● Storing: -20 °C to +70 °C (-4 °F to +158 °F)</td>
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<tr>
<td></td>
<td>Humidity</td>
<td>● Operating: 20% to 80% RH (non-condensing/frozen)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Storing: 5% to 90% RH (non-condensing/frozen)</td>
</tr>
<tr>
<td></td>
<td>Chassis</td>
<td>19-inch 4U</td>
</tr>
<tr>
<td></td>
<td>Dimensions (W × D × H)</td>
<td>445 × 746 × 175 mm (17.5 × 29.4 × 6.9 in)</td>
</tr>
<tr>
<td></td>
<td>Weight (without HDDs)</td>
<td>≤ 40 kg (88.2 lb)</td>
</tr>
</tbody>
</table>
Typical Application

Available Models
DS-A72024R, DS-A72072R

Available HDDs
Hikvision Tested and recommended HDDs
Seagate MAKARA Series (eg. ST8000NM0055) / Seagate MakaraBP Series (eg. ST6000NM0115) / WD RE series (eg. WD8002FRYZ-31) / HGST 7k6000 series (eg. HUH728080ALE600)

Note: Enterprise HDD strongly recommended when used in RAID mode and ISCSI application due to more stability design features; if Surveillance HDD need to be Used, please consult with Hikvision Sales.

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