![Alliance Storage Technologies Inc. logo]

Archive Appliance *Elite*
Entry & Mid-Range NAS Scalable Storage Solution

The upgraded Archive Appliance Elite integrates the solid dependability of the existing archive appliance and tops it with a powerful new Storage Management System, creating a professional data archiving solution unsurpassed in speed, performance, and manageability.

High-Performance Storage Management System (SMS)

The SMS advanced technical features enable active data to be ingested and written to UDO media four- times faster than previous generations. The high-performing SMS includes:

- Archive Controller w/Quad Core Processors
- 24TB RAID Cache
- Hardware RAID Controller w/BBU
- RAID configuration protection
- SAS Drive Connectivity
- Redundant power supplies

New!

AA Elite 174

AA Elite 80

The Archive Appliance Elite provides a completely integrated professional data archiving solution that responds to industry demands for minimized business risk, low total cost of ownership, fast and random access to data, and regulatory compliance.

The Archive Appliance Elite merges the same three core technologies developed specifically for data archiving – *only improved*: the new high-performance *Storage Management System* with RAID cache, *Archive Management Software*, and *Ultra Density Optical* (UDO). These elements together create a single-source solution that safely and securely retains massive quantities of data over the long-term.

The Archive Appliance Elite is up and running in only a few minutes presenting as a standard TCP/IP network resource with support for CIFS, NFS, and FTP protocols. All data written to the library is cached to RAID providing faster access to active data and then committed to UDO for long-term archiving.

The highly-configurable *Archive Management Software* adapts to any industry enabling businesses to comply with the varying regulations associated with data retention. Policy-based software enables users to create multiple archive volumes resulting in a low-cost disaster recovery solution (remove media and store off-site). Advanced replication functions are available that create true redundancy between libraries.

At the heart of the Archive Appliance Eite is regulatory compliant UDO Technology. This true WORM (Write Once Read Many) media offers superior longevity making it a cornerstone for organizations that are subject to industry regulations. Fifty-year UDO media life also dramatically reduces media maintenance, decreasing the frequency of data migration, reducing costs over the life of the archive.

AA80 Entry-Level Archive Appliance Elite
The AA80 library can be configured with 2 or 4 drives, and scales to up to 80 slots or 4.8 TB. Available standalone or with 19 inch rack mount kit.

AA174 Mid-Range Archive Appliance Elite
Solid, dependable optical archives with 2, 4 or 6 drives, scaling up to 174 slots with a storage capacity of 10.4 TB.

Archive Appliance Elite Library

The Archive Appliance Elite merges three core technologies: the high-performance Storage Management System with RAID cache, Archive Management Software, and Ultra Density Optical.

Elite

Features & Benefits

- *50 Year Media Life*
  - Unmatched longevity reduces frequency of data migrations & media maintenance
- *WORM Media*
  - Meets the highest regulatory standard for Compliant Record Retention
- *High-Performance RAID Cache*
  - Fast read & write access for active archive records
- *Multiple Archive Volumes*
  - Simultaneously archive data from multiple applications to dedicated media pools
- *Active Directory & ACL Support*
  - Secure integration into Windows domains & simplified administration
- *CIFS, NFS, & FTP Support*
  - Operates in heterogeneous Windows & UNIX environments
- *Automatic Second Copy*
  - Additional data protection that provides low cost disaster recovery when removed from the library & stored off site
- *Off-line Media Management*
  - Manages removed media to enable very low cost capacity scaling

Highlights of the advanced
Archive Management Software
feature set include:

- *Configurable policies: migration, watermark & storage volumes release, and more*
- *SMTP/SNMP system notifications*
- *Media management tools*
- *Library management tools*
- *Off-lined media monitoring and management*
- *UDO Guard data protection*
- *System diagnostics for library & SMS, including board-level sensor monitoring*
- *RAID integrity checker*
- *Advanced replication features available*

Licensed Scalable Configurations

Select from two models that are designed to maximize data archiving requirements ranging from entry-level through mid-range. Slots are key enabled and can be scaled incrementally at any time right onsite or remotely if already populated. *Invest in today's requirements and expand for tomorrow's!*

Specifications	AA Elite 80	AA Elite 174
Max/Min # Slots	80/20	174/100
Max Raw Capacity TBs	4.8	10.4
Max/Min Drives	4/2	6/2
Drive Increments	2	2
Power (W) w/Max Configuration		
Min Power Requirement (W)	355	381
Max Power Requirement (W)	503	544
Weight		
Max Config (lbs/kgs)	205/93	301/137
Shipping Weight (lbs/kgs)	280/127	400/181
Dimensions		
Product (LxWxH) inches	32x18x35	32x18x59
Product (LxWxH) cm	81x46x89	81x46x150
Shipping Dimensions (LxWxH) inches	37x32x51	37x36x76
Library Reliability (MSBF)	2,000,000	2,000,000
Robotics Access Time (sec*)	7.3	8.3
Media Transport Assembly (MTA) Type	Dual	Dual
Import/Export Mail Slot	Single	Single
Mean Time To Repair	< 4 Hours	< 4 Hours
Operating Temperature	50-90F/10-32C	50-90F/10-32C
Operating Voltage (auto ranging)	100 to 240 VAC	100 to 240 VAC
Library UDO Drive Connectivity	SCSI	SCSI

SMS Technical Specifications	
Archive Controller CPU	Quad Intel Xeon X3430
Cache RAM Internal	8MB
SAS Ports	8
PCIe Bus	Yes
SSD Buffer	256 GB
Max Mem Bandwidth	21 GB/s
Drive Connectivity	SAS
Dual Gbe (Bondable for Load Balancing or Failover)	Yes
Configurable Global Hot Spares	Up to 2
Redundant Power Supplies	Yes in SMS
RAID Drives	2 TB
RAID Cache (4, 8, or 12 drive)	24 TB Max Raw

RAID Configurations							
8 Drive RAID 5		8 Drive RAID 6		12 Drive RAID 5		12 Drive RAID 6	
Raw	Usable	Raw	Usable	Raw	Usable	Raw	Usable
16TB	8TB	16TB	6TB	24TB	16TB	24TB	14TB

AA Elite 80				AA Elite 174		
Drives	Slots	Capacity		Drives	Slots	Capacity
2, 4	20	1.2 TB		2, 4, 6	100	6 TB
2, 4	40	2.4TB		2, 4, 6	120	7.2 TB
2, 4	60	3.6TB		2, 4, 6	140	8.4 TB
4	72	4.3TB		6	158	9.48 TB
2	80	4.8TB		4	166	9.97 TB
				2	174	10.4 TB

Alliance
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UDO is registered trademark of ASTI - Manufactured under ISO9001 registered quality system - www.alliancestoragetechnologies.com

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