

EditStor VELO™

ACCELERATING MEDIA WORKFLOWS

EditStor Velo takes collaborative media storage to an exciting new level. By delivering high performance at reasonable cost, creative professionals can finally afford one central storage system for their entire media workflow. EditStor Velo goes far beyond high speeds and affordability; it's just as much the broad functionality, high scalability and overall simplicity that makes this NAS an easy choice. From ingest to archive, EditStor Velo facilitates a smooth workflow

KEY BENEFITS:

MULTI-PLATFORM

Multi read and write across MAC, Windows, and Linux workstations, enabling complete compatibility with Final Cut Studio, Avid Media Composer, and other leading editing tools.

COMPLETE DATA PROTECTION

High speed 12Gb/s RAID controller brings full hardware RAID protection (at levels 0, 1, 5, 6, 10, 50, & 60).

SSD UPGRADE WITH STORAGE EXPANSION

SSD Storage expansion for tier 1 and tier 2. SSD are configured in the existing engine and the HDD are configured for the expansion up to 11,000 MB/s performance.

BANDWIDTH EXPANSION

Hot pluggable expansion chassis can be added and throughput can be increased up to 5000 MB/s.

RICH MEDIA MANAGEMENT TOOLSET

Advanced features allows for automated backup, replication of media to second system, and user security and access. Including Archion's PICS media management system.



EDITSTOR VELO	ESVE-32TB	ESVE-64TB	ESVE-96TB	ESVE-128TB	ESVE-160TB
Total Storage	32TB	64TB	96TB	128TB	160TB
Usable Storage*	24TB	51TB	76TB	101TB	127TB
Drive Size	2TB	4TB	6TB	8TB	10TB

*The available space is shown in 2⁴⁰ bytes units, the same way operating systems calculate it. Hard drive manufacturers use 10¹² byte units. Usable Storage is the amount of RAID 5 protected storage less the failover hot spare. The usable capacity can vary based on type of configuration. Performance numbers should not be used to configure playback, but can be used to determine the aggregate bandwidth available.

With 2500 MB/s from a single 16 bay chassis and up to 5000 MB/s with an expansion chassis, 4K worries is a thing of the past. EditStor Velo delivers these high speeds in multi-write modes supporting as many as 40 UltraHD 4k streams in a collaborative environment. All media professionals utilizing such creative tools as Adobe Premiere® and After Effects®, Avid Media Composer® and ProTools®, Apple Final Cut X®, Autodesk Smoke®, Blackmagic Resolve and other popular finishing tools, can greatly benefit from EditStor Velo. From low cost standard Ethernet for offline workflows, to 10GbE connectivity for color correction and other finishing demands to 40GbE for switch utilization, EditStor Velo provides the essential networking. While four 10GbE ports is standard on EditStor Velo, you can now directly connect up to 16 workstations, via 10GbE or GigE.

The flexibility of EditStor Velo is truly unmatched for media workflows. With a comprehensive, yet easy to use GUI, connecting up an unlimited number of Windows, Macintosh and Linux clients is simple; there are no drivers, installers or client licenses required. EditStor Velo supports industry standard IT file transfer protocols simultaneously for maximum connectivity to and integration of the servers and workstations that drive your workflow, including such devices as ingest & playout servers or asset management systems.

Adding to this is a broad spectrum of media management features. This begins with ability to create shared volumes of any size while also having the convenience of being able to expand those volumes on the fly without downtime and performance degradation. EditStor Velo expansion chassis can also be added to the same volume group or separate without shutting down or stopping work. This volume and storage expansion is all managed through a web based administrator interface without impacting the workflow. In addition, EditStor Velo offers a comprehensive set of user and group management, as well as user security and access. This includes the support of both an internal or external LDAP protocol. Archion also extends sharing to projects with the APS Shareconnector™ Tool.

When it comes to the copy, migration and back up of your media, EditStor Velo has all the automation tools of an enterprise storage server, including storage pools, volume replication and snapshot, data replication, volume manager, virtual tape volumes (created in the system), as well as direct and fast tape backup (LTO/LTFS) for long term archive. EditStor Velo automates the back up of media to tape as well as the retrieval of media from tape.

TECHNICAL SPECIFICATIONS:



Storage

- Each EditStor Velo is fully populated with high speed SATA 3.0 drives on a PCIe 3.0 bus for Max Throughput
- EditStor Velo comes in 32TB, 64TB, 96TB, 128TB and 160TB capacities with the latest 12 Gb/s architecture.
- The storage is preconfigured with RAID 5 and a hot spare for maximum protection.
- EditStor Velo RAID controller with 12GB/s data transfer rate
- Supports RAID Levels 0, 1, 5, 6, 10, 50 and 60
- Hot pluggable expansion chassis with 32TB, 64TB and 96TB capacities



RAID Operation

- RAID is configured and tuned for digital video over IP
- Automatic failover and rebuild is pre-configured. Global hot spare covers all drives



GigE and Host Connections

- Comes standard with 4 optical ports (10 GbE)
- Upgrade options include up to three additional 4 port 10GbE optical cards or 4 port 10GbE copper cards or 2 port 40GbE card maximum of 16 ports
- Web based configuration GUI for headless operation. No need for monitor, keyboard or mouse for operation
- Configured for either direct connect or multiport switch
- Supports load balancing and jumbo frames for maximum throughput
- Sharing with up to 16 clients without Ethernet switch



Storage Management

- S.M.A.R.T. with E-Mail Notification
- Support for Logical Volumes over 16 TB
- Multiple Snapshots (multiple active snapshots per one LV)
- Multiple Logical Volumes and Groups
- Online Logical Volume Expansion
- Support for Online Capacity Expansion
- Built-in SNMP based monitoring system



Network Storage Features

- Windows Active Directory / Primary Domain Controller
- Support for Network Information Service (NIS)
- Internal and External LDAP

- Avid Project Sharing
- File System with Journaling Support
- User and Group Quota Control
- SMBv3, NFSv4 and AFP



Backup Utilities

- Local Backup
- Integrated Backup System
- Virtual Tapes
- Support for Tape Libraries and Autoloaders
- Tape Retention Time
- WORM Support (Write Once Read Many)
- NDMP v3.0 Support (Network Data Management Protocol)
- USB Storage Support for Dynamic Disk
- Backup-Agents



Cooling

- Redundant, hot-swappable fans with automatic speed control and front to back cooling.
- Built-in environmental management for constant optimal temperature control of entire chassis



Electrical

- Dual redundant hot-swappable power supplies (750W) universal input (100-240V AC)
- Maximum input current 6A at 100-120V or 3A at 220-240V
- Frequency: 47Hz to 64Hz, single phase
- Power Usage: 400W typical continuous power, 500W maximum continuous power.
- RoHS compliant



Environmental requirements

- Operating Temperature 5C to 35C
- Non-operating/Storage -40 to 70C
- Relative humidity (non-operating): 95% at 30C non-condensing



Dimensions and Weight

- Height: 3RU rackmount
- Width: 17 inches (43.2 cm)
- Depth: 27.875 inches (70.8 cm)
- Fits industry standard 19 inch rack for 30 to 36 inches deep.
- Weight 100 lbs (45.3 kg)

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