PAC Storage Video Optimized Media & Entertainment Storage

Shared Media Storage for Video Collaboration

PSV Highlights

High Performance and Scalability

- Supports up to 26 streams of 4K video editing and playback. Holds up to 192 drives with expansion enclosures.

Complete Product Line

- PSV is represented with different form factors and levels of performance for all types of media workloads to fit your budget and requirements.

Improved Productivity

- Supports DaVinci Resolve, Adobe Premiere, and Final Cut Pro NLE software for easy project collaboration.

High Reliability

- Innovative data protection technologies and cableless hardware design.

Flexible IO Connections

- Supports diverse network protocols and operating systems to fit in any IT environment.

Easy-to-Use

- Easy setup and effortless storage/media management via web-based management software. DaVinci Resolve Project Server Integration for enabling real-time simultaneous post-production workflow.

Introduction

PAC Storage Video Optimized NAS Storage (PSV) Series offers comprehensive storage solutions for today's Media and Entertainment industry that processes 4K and above ultra-high definition media footages with the industry-leading media editing software – DaVinci Resolve, Adobe Premiere, and Final Cut Pro. The PAC Storage PSV fulfills the need for small workgroups and post-production studios within 10 workstations working collaboratively on a single shared storage. PSV is a single controller unified storage solution with high capacity nearline drives or all-flash configurations exclusively designed for media and entertainment industry. Its hardware design features 3U 16-bay and 4U 24-bay form factors, flexible host board options, and stable, reliable modular design with high expandability for adding more capacity and connectivity ports.

Effortless management with proprietary tools

PAC Storage's user-friendly interface offers two kinds of user privileges for different management purposes. The first one is for M&E User Administrator, who is in charge of users' accounts and storage quota management. To help the user administrator easily set up storage and network, PAC's GUI also offers a setup wizard, which will guide users to finish system deployment in 5 minutes and initial environment setup in 30 minutes. The user-friendly interface makes it easy to manage user access credentials and shared folders. Another user privilege is for System Administrator who can do advanced storage configurations, data services settings, and maintenance.

PAC Storage PSV includes a client-based utility for Windows and macOS workstations. Once connected to PSV, the workstations are able to automatically detect the PSV within the network, the assigned shared folders for each editor will be automatically mounted. This step simplifies the complexities of storage system deployment and network settings, and, therefore, allows users to focus on video editing and creation. If any critical events occur, event notifications are sent to all PAC Storage clients so that the problem can be fixed in time to ensure uninterrupted workflow.

DaVinci Resolve Project Server Integration - DaVinci Resolve project server is preinstalled on PSV for real-time collaborative video editing with project synchronization across multiple clients. With centralized project server management, members of creative group can smoothly edit and manage media content from a shared storage with RAID protection without worrying about failures or power outages of the workstations. To ensure data integrity and protect files from accidental deletion, IT administrator can also backup and restore the video files through PAC Storage's management software.

PHYSICAL SPECIFICATIONS

Product Series		PSV 3000 Gen2	PSV 4000 Gen2
Form Factor & Avalilable Models	3U 16 Bay	PS V 3000 16 Bay	PS V 4000 16 Bay
	4U 24 Bay	PS V 3000 24 Bay	PS V 4000 24 Bay
	4U 60 Bay	PS V 3000 60 Bay	PS V 4000 60 Bay
Controller		Single Controller	
Cache Backup Techniques		Super capacitor+Flash module	
CPU		Intel® Xeon® 4 Core	Intel® Xeon® 8 Core
Cache Memory		Default 128GB Expandable to 256GB	
Supported Drives		Enterprise 2.5" SAS or SSD Enterprise 2.5" 12Gb/s SAS 10,000 or 15,000 RPM HDD Enterprise 3.5" 12Gb/s SAS 7,200 RPM HDD	
		Note: For the latest compatibility details, refer to our official website for the latest Compatibility Matrix	
Max. Drives Number		192 (with expansion board)	
Max. SSD Cache Pool		4TB	
Onboard SAS expansion Ports		2	
Onboard 1GbE Ports		0	
Onboard 10 GbE Ports (SFP+)		4	
Max. Host Board Slots		2	
Max. Expansion Board		1	
Host Board Options		10GbE (SFP+) x 2 10GbE (RJ-45) x 2 25GbE (SFP28) x 2 40GbE (QSFP+) x 2	
Max. 10GbE Ports (RJ-45)		4	
Max. 10GbE Ports (SFP+)		8	
Max. 25GbE Ports (SFP28)		4	
Max. 40GbE Ports (QSFP+)		4	
Expansion Enclosure (JBOD)		JB 3012A, JB 3016A	
Dimensions (without chassis ears/ protrusions) (W x H x D)		3U 16-bay: 449 x 130 x 500 mm 4U 24-bay: 449 x 174.4 x 500 mm	
Package Dimensions (W x H x D)		3U 16-bay: 780 x 423 x 588 mm 4U 24-bay: 780 x 465 x 588 mm	
Power Supply Unit (with fan module)	Power Supplies (Redundant/hot-swappable)	530W x 2 (80 PLUS Bronze)	
	AC Voltage (with PFC(auto-switching)	100VAC @10A to 240VAC @5A	
	Frequency	47-63Hz	
		Note: Power is also supplied in redundant mode, allowing full operation with half the resources.	
Safety Standard		• Electromagnetic Compatibility: CE, BSMI, FCC • Safety: UL, BSMI, CB	

SOFTWARE SPECIFICATIONS

Max. Logical Drives Number		32
Max. Logical Drives Capacity		512 TB
Confgurable Stripe Size		16KB, 32KB, 64KB, 128KB, 256KB, 512KB, or 1024KB per logical drive
Confgurable Writes Policy		Write-Back or Write-Through per logical drive. This policy can be modifed.
Max. Pool Size		2PB
Max. Pool Number		32
Max. Volume Size		2PB
Max. Volume Number (per pool/per system)		1024
Max. Host LUN Mapping Number		4096
Max. Reserved Tag Number per Host-LUN Connection		Up to 256
Max. Host Connection Number		128
RAID Options		RAID 0, RAID 1, RAID 3, RAID 5, RAID 6, RAID 10, RAID 30, RAID 50, RAID 60
Protocol Support	File Level Protocol	CIFS/SMB (Version 2.0/3.0), NFS (Version 2/3/4), AFP (Version 3.1.12), FTP/FXP (vsftp 2.3.4), WebDAV (httpd package 2.4.6)
	Object Level Protocol	RESTful API
File Level	Max. File System Size	2PB
	Max. Number of User Accounts	20000
	Max. Number of User Groups	512
	Max. Number of Folder Sharing	2048 (NFS/CIFS/FTP) | 255 (AFP)
	Max. Number of Rsync Jobs	1024
	Max. Number of Rsync Concurrent Processes	64
	Max. Number of Concurrent Connections (NFS/CIFS/AFP/FTP)	• 128 GB memory: 2048
Management		• User account management • Group management • Folder management - folder access control • Quota management • Integration with Microsoft Active Directory (AD) and LDAP • Folder encryption with AES • Web-based management software • Storage Resource Management to analyze history records of resource usage
Availability and Reliability		• Redundant, hot-swappable hardware modules • Device mapper support • Antivirus • Trunk group support • Cache Safe technology • UPS • WORM (For fle level only) • SMB Multichannel
Notifcation		• Email • SNMP traps
Applications		• File explorer • Syslog server • LDAP serve • Proxy server • VPN server • Docker
Cloud Feature		Supports the integration with following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud,Google Cloud, Tencent Cloud, Wasabi Cloud, etc.
OS Support		Microsoft Windows Server 2019/2016/2012R2/2012/2008R2/2008, Windows 7 SP1, Windows 8.1, Microsoft Windows Hyper-V, Ret Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware, Citrix XenServer, OpenStack Cinder
		Note: For OS version support, please refer to the compatibility matrix.

DATA SERVICE

Self-encrypting Drives	Unique factory encryption secures data plus makes deletion simple and complete	
Snapshot	Snapshot images per source volume	Standard License: 64 / Advanced License: 256
	Snapshot images per pool	Standard License: 128 / Advanced License: 4096
Remote Replication (File Level)	Support Rsync with 128-bit SSH encryption	
SSD Cache (Default Included)	Accelerating data access for random read-intensive environments, such as OLTP	
	Supports up to four SSDs per controller	

WARRANTY AND SERVICE

Service and Support	Standard Service	3-year Advanced Exchange hardware warranty and software support 5x9 (7am-6pm PDT) phone, web, and email support
	Upgrade or Extension Options	Warranty extension: Can extend standard service up to 10 years • Installation - Remote and On-site Available (recommended)
		Note: Options may vary by region. For more details, please contact our sales representatives.
	Technical Support	Get information on system installation and maintenance, download technical documents and software, or issue a support ticket
	Product Services	Register products, download frmware, apply for licensing services, create product repair tickets, or check product repair status