

PS V Highlights

High Performance and Scalability

 Supports up to 26 streams of 4K video editing and playback. Holds up to 896 drives with expansion enclosures.

Complete Product Line

 PS V 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 PS Video Optimized Storage (PS V) 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 PS V fulfills the need for small workgroups and post-production studios within 10 workstations working collaboratively on a single shared storage. PS V 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 PS V includes a client-based utility for Windows and macOS workstations. Once connected to PS V, the workstations are able to automatically detect the PS V 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 PS V 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.

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Product Series		PS V 2000	PS V 3000 Gen2	PS V 4000 Gen2		
	3U 16-bay	PS V 2000 16 Bay	PS V 3000 16 Bay	PS V 3000 16 Bay		
Form Factor &	4U 24-bay	-	PS V 3000 24 Bay	PS V 4000 24 Bay		
Avalilable Models -		Note: T: High performance 2: Gen2				
Controller		Single Controller				
Cache Backup Techniques		Super capacitor+Flash module				
CPU		Intel® Pentium® 4 Core	Intel® Xeon® 4 Core	Intel® Xeon® 8 Core		
Cache Memory		Default DDR4 8GB; Default DDR4 8GB; Expandable to 64GB Expandable to 256GB				
Supported Drives		Note: For M&E solution, it is recommended to use memory at least 64GB. 2.5" SAS or SATA SSD 2.5" 12Gb/s SAS 10,000 or 15,000 RPM HDD 3.5" 12Gb/s SAS 7,200 RPM HDD 3.5" 6Gb/s SATA 7,200 RPM HDD				
		Note: For the latest compatibility details, refer to our official website for the latest Compatibility Matrix.				
Max. Drives Number Max. SSD Cache Pool	1	1 CTD	896 (with expansion board)	ATD		
	-	1.6TB	4TB	4TB 2		
Onboard SAS expansi Onboard 1GbE Ports	ion t.n.r.	4	0	0		
Onboard 10 GbE Port	s (SFP+)	0	4	4		
Max. Host Board Slots		2	2	2		
WIAX. FIOSE DUALU SIOL	5	1	1	1		
Max. Expansion Board	d	Note: The expansion board can only be installed in the HB2 slot and has 2 x 12Gb/s SAS ports only connectable with expansion enclosure:				
Host Board Options		32Gb/s FC x 2 1GbE (RJ-45) x 4 10GbE (SFP+) x 2 10GbE (RJ-45) x 2 25GbE (SFP28) x 2 40GbE (QSFP+) x 2 12Gb/s SAS x 2 Note: 1. Fibre channel supports point-to-point and switch mode. 2. The expansion board can only be installed in the HB2 slot and has 12Gb/s SAS x 2 32Gb/s C x 4 32Gb/s FC x 2 32Gb/s FC x 4 10GbE (SFP+) x 2 10GbE (SFP+) x 2 12Gb/s SAS x 2				
Max. 16Gb/s FC Ports	3	4	4	4		
Max. 32Gb/s FC Ports	S	4	4	4		
Max. 1 GbE Ports		12	0	0		
Max. 10GbE Ports (R	J-45)	4	4	4		
Max. 10GbE Ports (SI	FP+)	4	8	8		
Max. 25GbE Ports (S	SFP28)	4	4	4		
Max. 40GbE Ports (QSFP+)		4	4	4		
Max. 12Gb/s SAS Ports		6	6	6		
Expansion Enclosure	(JBOD)	JB 3012A, JB 3016A, JB 3024BA, JB 3025BA, JB 3060L	JB 3012A, JB 3016A, JB 3025BA, JB 3060L			
Dimensions (without chassis ears/ protrusions) (W x H x D)		2U 24-bay: 449 x 88	2-bay: 449 x 88 x 500 mm 3U 16-bay: 449 x 130 x 500 mm 44-bay: 449 x 88 x 500 mm 4U 24-bay: 449 x 174.4 x 500 mm 45-bay: 449 x 88 x 500 mm 4U 60-bay: 447.6 x 176 x 840.9 mm			
Package Dimensions (W x H x D)		2U 12-bay: 780 x 379 2U 24-bay: 780 x 338 2U 25-bay: 780 x 340	3 x 588 mm 4U 24-bay: 780 x	465 x 588 mm		
Power Supply Unit (with fan module)	Power Supplies (Redundant/hot-swappable)	460W x 2 (80 PLUS Bronze)	530W x 2 (80 PLUS Bronze)			
	AC Voltage (with PFC(auto-switching))	100VAC @8A to 240VAC @4A	100VAC @10A t	o 240VAC @5A		
	Frequency	50-60 Hz	47-6	3Hz		
	. ,	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				
Configurable Stripe Size		16KB, 32KB, 64KB, 128KB, 256KB, 512KB, or 1024KB per logical drive				
Configurable Writes Policy		Write-Back or Write-Through per logical drive. This policy can be modified.				
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. iSCSI Initiators (per controller)		832				
Max. Host Connection Number (per FC)		128				
RAID Options		RAID 0, RAID 1, RAID 3, RAID 5, RAID 6, RAID 10, RAID 30, RAID 50, RAID 60				
	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)				
Protocol Support	Block Level Protocol	FC, iSCSI, SAS				
	Object Level Protocol	RESTful API				
	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)				
File Level	Max. Number of Rsync Jobs	1024				
	Max. Number of Rsync Concurrent Processes	64				
	Max. Number of Concurrent Connections (NFS/CIFS/AFP/FTP)	• 16 GB memory: 200 • 32 GB memory: 512 • 64 GB memory: 1024 • 128 GB memory: 2048				
Management		User account managemen Group management Folder management - folde 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 Device mapper support Antivirus Trunk group support	e hardware modules	Cache Safe technology UPS WORM (For file level only) SMB Multichannel		
Notification		• Email •	SNMP traps			
Applications			Syslog server VPN server	LDAP serve 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 SERV	ICE			
Self-encrypting Drives		Unique factory encryption secures data plus makes deletion simple and complete		
Thin Provisioning (Block-Level) (default included)		"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space		
Local Replication	Snapshot	Snapshot images per source volume	Standard License: 64 / Advanced License: 256	
		Snapshot images per pool	Standard License: 128 / Advanced License: 4096	
	Volume Copy/Mirror	Replication pairs per source volume	Standard License: 4 / Advanced License: 8	
		Replication pairs per system	Standard License: 16 / Advanced License: 256	
		Note: Standard license is included by default and advanced is an optional license		
Remote Replication (Block level)(optional)		Replication pairs per source volume: 8		
		Replication pairs per system: 64		
		Note: 1. The maximum number of replication pair per source volume is up to 8, regardless of remote asynchronous/remote synchronous/local volume pairs. 2. 4 x 16Gb FC and 2/4 x 32Gb FC host boards do not support Remote Replication.		
Remote Replication (File Level)		Support Rsync with 128-bit SSH encryption		
Automated Storage Tiering (optional)		2 or 4 storage tiers based on drive types		
		SSD supports		
		Automated data migration with scheduling options		
		Accelerating data access for random read-intensive environments, such as OLTP		
		Supports up to four SSDs per controller		
		Recommended DIMM capacity for SSD Cache pool for GSe 2000T		
		DRAM: 8GB	Max SSD Cache Pool Size: 400GB	
		DRAM: 16GB	Max SSD Cache Pool Size: 600GB	
SSD Cache (Default I	ncluded)	DRAM: 32GB	Max SSD Cache Pool Size: 1,000GB	
SSD Cache (Default Included)		DRAM: 64GB	Max SSD Cache Pool Size: 1,600GB	
		Recommended DIMM capacity for SSD Cache pool for GSe 3000/4000 Gen2		
		DRAM: 8GB	Max SSD Cache Pool Size: 500GB	
		DRAM: 16GB	Max SSD Cache Pool Size: 1,000GB	
		DRAM: 32GB	Max SSD Cache Pool Size: 2,000GB	
		DRAM: 64GB and up	Max SSD Cache Pool Size: 4,000GB	

WARRANTY AND SERVICE						
Service and Support	Standard Service	3-year limited hardware warranty and 8x5 phone, web, and email support (batteries are covered under warranty for 2 years)				
	Upgrade or Extension Options	Warranty extension: Can extended standard service up to 10 years The following Service can be upgraded to 10 years • Upgrade: Replacement part dispatch on the next business day • Advanced service: 24x7 phone, web, and email support + onsite diagnostics on the next business day • Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours				
		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 firmware, apply for licensing services, create product repair tickets, or check product repair status				