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Buyer's Quick Guide

PROMISE Rich Media Solutions

Optimized for Rich Media Workflow

PROMISE varied Rich Media product line ranges from compact Thunderbolt™ 3 RAID Pegasus32 devices that can be easily transported and used on site, to large scale PegasusPro and VTrak network storage systems purpose-built for collaborative team post production and digital asset archiving.

PROMISE rich media solutions offer robust high-speed and performance capabilities, enabling large volumes of footage from multiple cameras to be off-loaded to a Pegasus32 device on site. The raw footage can later be transferred to a RAID protected storage network system for post production.

This guide features specifications and product descriptions for the entire current line of Rich Media post production subsystems including the latest additions, PegasusPro and VTrak N-Series high performance NAS systems engineered specifically for post production workflow efficiency.



Contact us

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Single-Client Thunderbolt™ 3 / DAS Solution

	Pegasus32 Series			Pegasus M4
	Pegasus32 R4	Pegasus32 R6	Pegasus32 R8	Pegasus M4
Shipping Capacity	HDD:16TB	HDD:24TB/48TB/84TB	HDD:64TB/144TB	SSD: 8TB/16TB/32TB
Support Interface	2x Thunderbolt™ 3 (40Gb/s) & USB 3.2 Gen 2 (10Gb/s) (Port A only)			
Number of Drives	4	6	8	4
Hard Drive Interface	6Gb SATA HDD	6Gb SATA HDD	6Gb SATA HDD	6Gb SATA SSD
Management Interface	PROMISE Utility Pro, CLI	PROMISE Utility Pro, CLI	PROMISE Utility Pro, CLI	PROMISE Utility Pro, CLI
RAID Level	RAID 0, 1, 5, 6, 10, Pass-through mode	RAID 0, 1, 5, 6, 10, 50, Pass-through mode	RAID 0, 1, 5, 6, 10, 50, 60, Pass-through mode	RAID 0, 1, 5, 6, 10, Pass-through mode
Native DP display support	(4K x 2) or (5K x 1) or (8K x 1) *DP 1.4/HDMI 2.0	(4K x 2) or (5K x 1) or (8K x 1) *DP 1.4/HDMI 2.0	(4K x 2) or (5K x 1) or (8K x 1) *DP 1.4/HDMI 2.0	-
Support OS	MacOS 10.14 and above Windows 10	MacOS 10.14 and above Windows 10	MacOS 10.14 and above Windows 10	MacOS 12.4 and above, Windows 10
Power Charging	Port A: 85W, Port B: 15W	Port A: 85W, Port B: 15W	Port A: 85W, Port B: 15W	Port A: 15W, Port B: 15W
Cable Included	0.7m 40Gb/s passive Thunderbolt™ 3 cable [Thunderbolt™ 3 / USB cable]	0.7m 40Gb/s passive Thunderbolt™ 3 cable [Thunderbolt™ 3 / USB cable]	0.7m 40Gb/s passive Thunderbolt™ 3 cable [Thunderbolt™ 3 / USB cable]	0.7m 40Gb/s passive Thunderbolt™ 3 cable [Thunderbolt™ 3 / USB cable]
Power Supply Unit	1x 250W	1x 250W	1x 250W	1x 120W
Daisy-Chaining Multiple PegasusPro/32/3 systems	Yes	Yes	Yes	Yes
Warranty	3 Years	3 Years	3 Years	3 Years

Thunderbolt™ 3 / DAS & 10Gb/Shared Storage Solution

	PegasusPro Series	
	PegasusPro R8	PegasusPro R16
Shipping Capacity	HDD: 32TB, 64TB, 128TB, 144TB SSD: 15.36TB, 30.72TB	HDD: 128TB, 256TB, 288TB SSD: 61.44TB
Support Interface	2x Thunderbolt™ 3 (40Gb/s), 4 port 10GbE Base-T, 2 port 1GbE, 4 USB3.2/USB2.0	
Number of Drives	8	16
Hard Drive Interface	6Gb SATA HDD & SSD	6Gb SATA HDD & SSD
Management Interface	PROMISE Utility Pro, Web based management-Web-PAM Insight, CLI	PROMISE Utility Pro, Web based management-Web-PAM Insight, CLI
SAS 12G HBA for JBOD Expansion	-	Optional
NAS feature	Supported Network Protocols-SMB/CIFS, FTP, NFS, WebDAV, Permission management	Supported Network Protocols-SMB/CIFS, FTP, NFS, WebDAV, Permission management
RAID Level	RAID 0, 1, 5, 6, 10, 50, 60	RAID 0, 1, 5, 6, 10, 50, 60
Output for troubleshoot	HDMI*1; VGA*1	HDMI*1; VGA*1
Support OS	MacOS 10.15.7 and above, Windows 10	MacOS 10.15.7 and above, Windows 10
Power Charging	Port A: 85W, Port B: 15W	Port A: 85W, Port B: 15W
Cable Included	2m 40Gb/s Thunderbolt™ 3 Active Cable	2m 40Gb/s Thunderbolt™ 3 Active Cable
Power Supply Unit	1 x 350W	2 x 550W
Daisy-Chaining Multiple PegasusPro/32/3 systems	Yes	Yes
Warranty	3 Years	3 Years

NVMe Shared Storage: NVMe Cache and NVMe Pool

	VTrak N-Series	
	VTrak N1008	VTrak N1616
Shipping Capacity	HDD: 32TB, 64TB, 128TB, 144TB SSD: 15.36TB, 30.72TB	HDD: 128TB, 256TB, 288TB SSD: 61.44TB
Support Interface	4 Port 10G Base-T, 4 Port 10G SFP+, 2 Port 25G SFP28	8 Port 10G Base-T, 8-Port 10G SFP+, 4 Port 25G SFP28
Number of Drives	8	16
Hard Drive Interface	6Gb SATA HDD	6Gb SATA HDD/ SSD, U.2 NVMe
Management Interface	PROMISE Utility Pro, Web based management-Web-PAM Insight, CLI	PROMISE Utility Pro, Web based management-Web-PAM Insight, CLI
SAS 12G HBA for JBOD Expansion	-	Optional
NAS feature	Supported Network Protocols-SMB/CIFS, FTP, NFS, WebDAV, Permission Management	Supported Network Protocols-SMB/CIFS, FTP, NFS, WebDAV, Permission Management
Performance Boost	NVMe Cache	NVMe Pool
RAID level	RAID 0, 1, 5, 6, 10, 50, 60	RAID 0, 1, 5, 6, 10, 50, 60
Output for troubleshoot	HDMI*1, VGA*1	HDMI*1, VGA*1
Support OS	Windows 10 and MacOS 10.15 above	Windows 10 and MacOS 10.15 above
Power Supply Unit	1 x 350W	2 x 550W
Warranty	3 Years	3 Years

Enterprise Unified Storage Solution

VTrak Series				
	D5300x / D5300fx	D5320x / D5320fx	D5600x / D5600fx	D5800x / D5800fx
Form Factor	2U	2U	3U	4U
Support Interface	D5000xD: iSCSI and NAS Storage System, Dual HA Controller w/ 4-port 10GSFP+ D5000xS: iSCSI and NAS Storage System, Single Controller w/ 2-port 10GSFP+ D5000fD: FC, iSCSI and NAS Unified Storage System, Dual HA Controller w/ 4-port 10GSFP+ and 8-port 16Gb FC D5000fS: FC, iSCSI and NAS Unified Storage System, Single Controller w/ 2-port 10GSFP+ and 4-port 16Gb FC			
Memory	Default : 32GB DDR4 Memoey per controller Up to 128GB			
Number of Drives	12(LFF)	24(SFF)	16(LFF)	24(LFF) + 4(SFF)
Hard Drive Interface (Backend)	• 6G or 12G SAS HDD and SSD • 6G SATA HDD and SSD(Need BlackJack) • Supports any mix of SAS and SATA drives simultaneously in the same enclosure			
Management Ports	2 x RJ-45 1Gb Ethernet per controller 1 x RJ-11 Serial Port per controller			
Management Interface	Web Based management using Web, CLI, SSH, SNMP			
Storage Expansion Ports	2 x 12Gb SAS Mini-SAS (SFF-8644) per controller			
Max JBOD Units Supported	15	15	15	15
Max. HDD Supported	512	512	512	512
RAID Levels	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60
RAID Stripe Size Support	64K, 128K, 256K, 512K and 1MB	64K, 128K, 256K, 512K and 1MB	64K, 128K, 256K, 512K and 1MB	64K, 128K, 256K, 512K and 1MB
Supported OS	Windows Server 2008, 2012, 2016, MacOS 10.x, RHEL 6.5 to 7.2, SLES 11, 11 SP4, and 12 SP1			
Online JBOD Expansion	Yes	Yes	Yes	Yes
NAS Support	Yes	Yes	Yes	Yes
Data Service	Yes	Yes	Yes	Yes
Power supply	1+1 595W 80 Plus Gold	1+1 595W 80 Plus Gold	1+1 800W 80 Plus Gold	1+1 800W 80 Plus Gold
BBU	C2F Only	C2F Only	C2F Only	C2F Only
Warranty	3-year full system limited warranty including PROMISE PSP, optional extended warranty			

Enterprise FC Storage Solution

VTrak Series			
	E5300f	E5600f	E5800f
Form Factor	2U	3U	4U
Support Interface	E5000fD: FC Sub-System, Dual HA Controller w/ 8-port 16Gb FC E5000fS: FC Sub-System, Single Controller w/ 4-port 16Gb FC		
Memory	Default : 8GB DDR4 Memory per controller		
Number of Drives	12(LFF)	16(LFF)	24(LFF)
Hard Drive Interface (Backend)	• 6G or 12G SAS HDD and SSD • 6G SATA HDD and SSD(Need BlackJack) • Supports any mix of SAS and SATA drives simultaneously in the same enclosure		
Management Ports	2 x RJ-45 1Gb Ethernet per controller 1 x RJ-11 Serial Port per controller		
Management Interface	Web Based management using Web, CLI, SSH, SNMP		
Storage Expansion Ports	2 x 12Gb SAS Mini-SAS (SFF-8644) per controller		
Max JBOD Units Supported	9	9	9
Max. HDD Supported	228	232	240
RAID Levels	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60
RAID Stripe Size Support	64K, 128K, 256K, 512K and 1MB	64K, 128K, 256K, 512K and 1MB	64K, 128K, 256K, 512K and 1MB
Supported OS	Windows Server 2008, 2012, 2016, MacOS 10.x, RHEL 6.5 to 7.2, SLES 11, 11 SP4, and 12 SP1		
Online JBOD Expansion	Yes	Yes	Yes
NAS Support	-	-	-
Data Service	-	-	-
Power supply	1+1 595W 80 Plus Gold	1+1 800W 80 Plus Gold	1+1 800W 80 Plus Gold
BBU	C2F Only	C2F Only	C2F Only
Warranty	3-year full system limited warranty including PROMISE PSP, optional extended warranty		

Enterprise Expansion Storage Solution

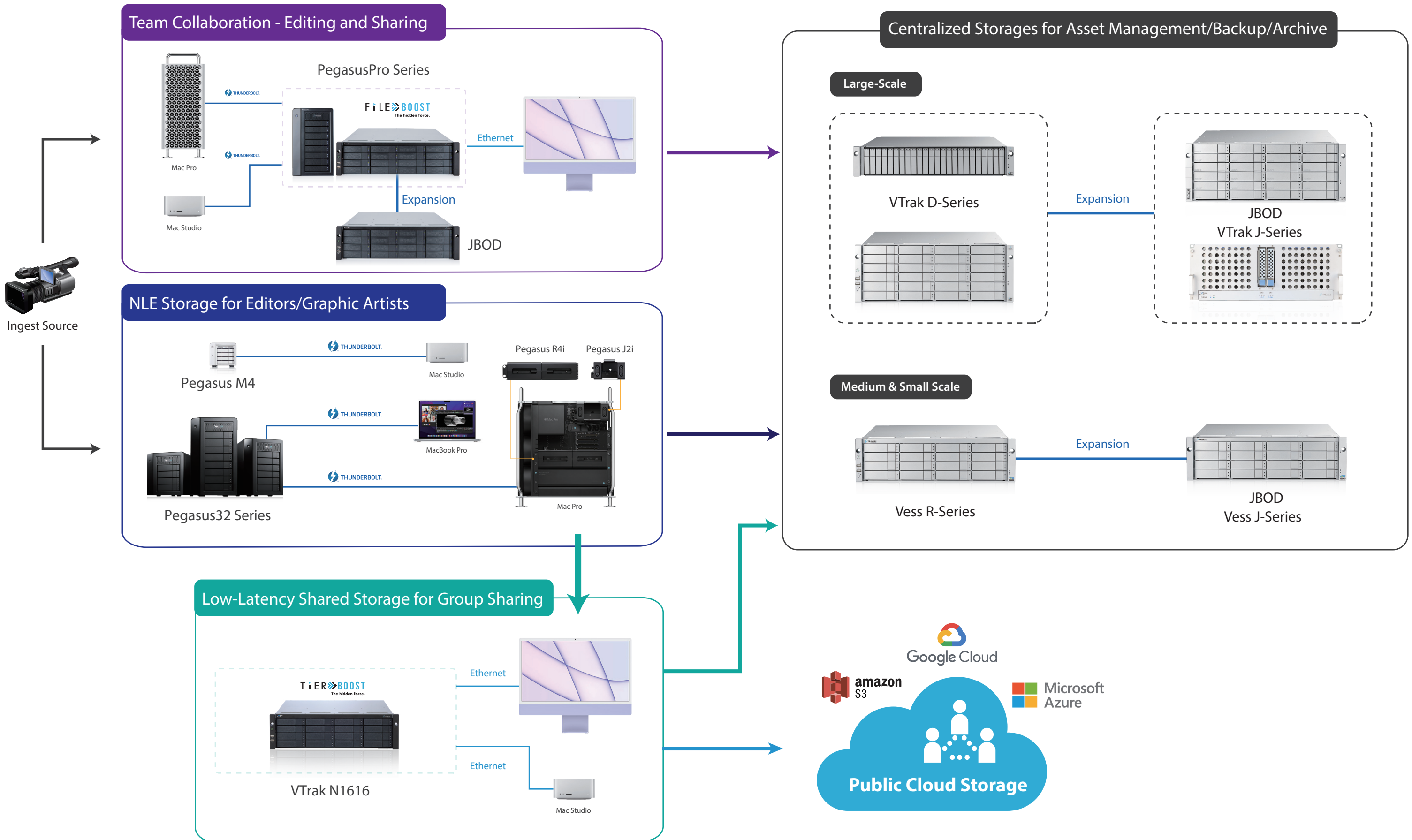
VTrak Series					
	VTrak J5300	VTrak J5320	VTrak J5600	VTrak J5800	VTrak J5960
From Factor	2U	2U	3U	4U	4U
Number of Drives	12 (LFF)	24(SFF)	16(LFF)	24(LFF)	60(HighDensity)
Hard Drive Interface (Backend)	<ul style="list-style-type: none"> • 6G or 12G SAS HDD and SSD • 6G SATA HDD and SSD(Need BlackJack) • Supports any mix of SAS and SATA drives simultaneously in the same enclosure 				
Management Ports	1 x RJ-45 1Gb Ethernet per IOM 1 x RJ-11 Serial Port per IOM				
Management Interface	Web Based management using Web, CLI				
External I/O Ports	4 x 12Gb SAS Mini-SAS (SFF-8644) per IOM				6 x 12Gb SAS Mini-SAS (SFF-8644) per IOM
RAID Levels (based on RAID head)	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60
RAID Stripe Size Support (based on RAID head)	64K, 128K, 256K, 512K and 1MB	64K, 128K, 256K, 512K and 1MB	64K, 128K, 256K, 512K and 1MB	64K, 128K, 256K, 512K and 1MB	64K, 128K, 256K, 512K and 1MB
Supported OS (based on RAID head)	Windows Server 2008, 2012, 2016, MacOS 10.x, RHEL 6.5 to 7.2, SLES 11, 11 SP4, and 12 SP1				
Online JBOD Expansion	Yes	Yes	Yes	Yes	Yes
Power supply	1+1 595W 80 Plus Gold	1+1 595W 80 Plus Gold	1+1 600W 80 Plus Gold	1+1 600W 80 Plus Gold	1+1 1200W 80 PLUS Platinum
Warranty	3-year full system limited warranty including PROMISE PSP, optional extended warranty				

Enterprise Unified Storage and Expansion Storage Solution

Vess Series		
	Vess R3600i/R3600ti/R3600xi/R3604fi	Vess J3600s/d
From Factor	3U	3U
Support Interface per Controller	R3600iS/R3600iD 1x Quad port 1GbE S: Single Controller D: Dual Controller	R3600xiS/R3600xiD 1x Quad port 1GbE / 1x Dual port 10GbE SFP+ R3604fiS / R3604fiD 1x Quad port 1GbE 1 X Quad port 16GB FC R3600tiS/ R3600tiD 1x Quad port 1GbE 1x Dual port 10GBASE-T
Number of Drives	16(LFF)	16(LFF)
Hard Drive Interface (Backend)	<ul style="list-style-type: none"> • 6G or 12G SAS HDD and SSD • 6G SATA HDD and SSD(Need BlackJack) • Supports any mix of SAS and SATA drives simultaneously in the same enclosure 	
Management Ports	1 x RJ-45 1Gb Ethernet per controller 1 x RJ-11 Serial Port per controller	1 x RJ-11 Serial Port per IOM
Management Interface	Web Based management using Web, CLI, SSH, SNMP	CLI
Expansion Ports	1x 12Gb SAS Mini-SAS (SFF-8644) per IOM	2x 12Gb SAS Mini-SAS (SFF-8644) per IOM
RAID Levels	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60
RAID Stripe Size Support	64K, 128K, 256K, 512K and 1MB	64K, 128K, 256K, 512K and 1MB
Supported OS	Windows Server 2008, 2012, 2016, MacOS 10.x, RHEL 6.5 to 7.2, SLES 11, 11 SP4, and 12 SP1	Windows Server 2008, 2012, 2016, MacOS 10.x, RHEL 6.5 to 7.2, SLES 11, 11 SP4, and 12 SP1
Online JBOD Expansion	Yes	Yes
NAS Support	Yes	-
Data Service	Yes	-
Power supply	1+1 550W 80 PLUS Platinum	1+1 550W 80 PLUS Platinum
BBU	C2F Only	-
Warranty	3-year full system limited warranty including PROMISE PSP, optional extended warranty	

Thunderbolt™ 3 Adapter

SANLink3	
	SANLink3 N1
External Ports	Single NBASE-T Ethernet Port
Thunderbolt™ port	Single Thunderbolt™ 3 technology port (40 Gbps)
Transfer Rates	1250MB/s at 10Gb 625MB/s at 5Gb 312.5MB/s at 2.5Gb 125MB/s at 1Gb
Host Bus Type	Single 40 Gbps Thunderbolt™ 3 port
Protocols	IEEE 802.3an - 10GBASE-T IEEE 802.3bz - 2.5G/5GBASE-T IEEE 802.3ab - 1000BASE-T IEEE 802.3u - 100BASE-TX
Requirements	Workstation or portable with Thunderbolt™ 3 port (Thunderbolt™ 3 cable included)
OS Support	OS X 10.13.3 or later Windows 10 (64-bit-available driver download)
Warranty	3 years



Ingest and Play Out Feeds via Video Router

- Tape
- Studio
- Satellite

Ingesting & Live Logging

- Ingest Control, Preview & Meta Data Entry

Edit or Craft Editor Integration

- Proxy Editor, News Editor
- Edit Volume
 - Pegasus Series connected via Thunderbolt Clients
 - PegasusPro Series connected via Thunderbolt Clients or Ethernet NAS Clients
 - VTrak N-Series connected via Ethernet NAS Clients
 - VTrak D-Series and Vess R-Series connected via Fiber Channel Clients or Ethernet NAS Clients
- Play Out Volume
 - PegasusPro Series connected via Ethernet NAS Clients
 - VTrak N-Series connected via Ethernet NAS Clients
 - VTrak D-Series and Vess R-Series connected via Fiber Channel Clients or Ethernet NAS Clients

Archive

- Disk to centralized storage to tape
 - VTrak D-Series and Vess R-Series connected via Fiber Channel Clients or Ethernet NAS Clients
 - VTrak J-Series and Vess J-Series connected via SAS to expand storage capacity

Post Production (ingest and media organization)

The first stage in any post-production pipeline is to ingest the film-originated, tape-based, or tapeless media files that you shot or generated into editing applications. Different types of media require different ingest methods; for example, ingesting from tape requires the Log and Capture method, and ingesting from a tapeless format requires the Log and Transfer method. During ingest, you'll already be taking steps to organize your media by choosing what media to ingest and by adding logging information, such as clip names and notes. After ingest is complete, you immediately take other organizational steps to sort clips into bins and review, mark, and annotate each clip using controls in the application. A post-production team may benefit from using editing applications to manage project and media files on a storage area network (SAN) storage or a Network attached storage (NAS). There's one key decision that you make during ingest that affects editorial development, and later, finishing. This is whether to ingest your program's media at an offline resolution, where visual quality is lower but the media is easier to work with, or at an online resolution, where the visual quality is superior but the media requires more processing power to work with and more storage space.

Edit

Editorial development is when your project is put together. Sometimes referred to as the offline edit or the story edit, this is where the raw media that you ingested in stage 1 is turned into an edited program. Some programs are assembled entirely within editing applications, where you can create all the titles and effects you need and do any necessary sound design right in your sequence while you edit. As you work, you can also send specific audio clips from Timeline directly to Soundtrack to do things like eliminate noise, create ambient noise to patch holes, and do equalization matching on a clip-by-clip basis. Whether you use one application or many, all of a program's elements come together in your edited sequence, helping to guide your editorial decisions as you work to complete the program's content

Content Review

If you're working on a project for a client, frequent and specific feedback is an absolute requirement. If you're working in a supervised session, you can simply play your project from Timeline. However, there are times when you may be working unsupervised, with clients who are remotely located, or when you want to provide a version of the program that can be screened at another location. Editing application provides many ways of delivering individual clips or entire sequences to clients for remote viewing, such as via a video files or on the web.

Finishing

After a program's story has been edited and the project's content

is considered complete, it's time to give the program its final polish and tweaking, appropriately referred to as finishing. The first part of finishing, if you've been working on your project using offline-quality media, is to conform your edited sequence to the highest-quality version of the original source media that's available. The best way to do this depends on how the original media was acquired, how you ingested the media, and how carefully you managed the media during editorial development. If your offline edit combines source media in several different formats, now may be the time to convert any clips that don't match the final sequence settings so that the entire program is easy to output. Compressor has format-conversion capabilities that facilitate this process. This is also the time when all temporary elements like placeholder titles, offline effects, and other placeholder media must be replaced with their final, online-quality versions.

Mastering

Mastering is the process of assembling everything your project needs into a single, deliverable bundle for handoff. In some cases, this process is as simple as making sure that the video and audio elements are assembled into a final sequence for output to tape. In other cases, mastering may involve assembling a much longer list of deliverable media files, including separate versions of the program with and without titles (also called texted and textless versions), format conversions, closed captioning and subtitle insertion, and alternative audio mixes for different audiences.

Output and Delivery

Output and delivery is the last stage of the post-production process. As the name implies, it's the process of creating the final, playable media that you then hand off to the client and audience. Output can take many forms: rendering a DPX image sequence for film printing, outputting to an appropriately high-quality video formats or compressing your program to a format suitable for web playback.

(Reference: Apple Post Product Workflow Explained)