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Your Intelligent Surveillance  
Storage Solution

# Buyer's Quick Guide

## PROMISE Surveillance Solution

### YOUR INTELLIGENT SURVEILLANCE SOLUTION TO GUARD YOUR BUSINESS

PROMISE Technology has designed and manufactured sophisticated RAID & Storage solutions for 30 years. With proven expertise of storage technology by market, our profound knowledge and dedication can provide you the most intelligent surveillance solution to guard your business.

### COMPREHENSIVE PRODUCT COVERAGE FOR VIDEO SURVEILLANCE STORAGE

A well-preserved video archive can ensure we can get any necessary data to take the further actions. It is therefore important to realize that storage is not simply a space provided to store video stream, but a safe data center in which reliability and capability greatly matters when it comes to surveillance applications.

To cover all various demands and applications of surveillance, you can get the complete storage solution from PROMISE surveillance portfolio including storage expansion subsystems if necessary, which provides a single umbrella storage solution able to execute any surveillance operations smoothly.

Contact us




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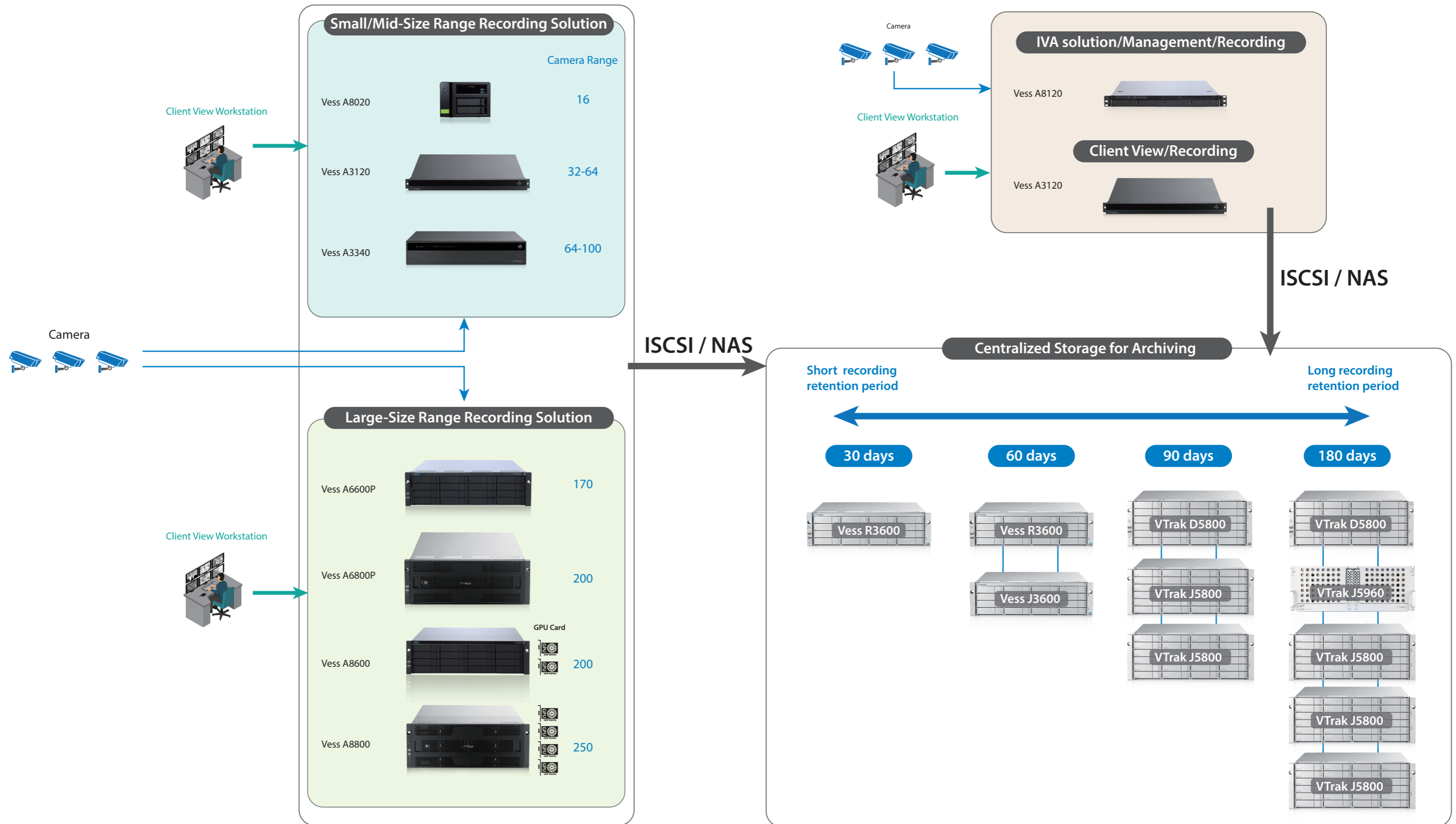
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**HOW TO** To easily select the suitable Vess Series model for your various surveillance systems demand, we categorize by the following:

- Applications: Home Surveillance/NVR/Analytics Server/Management Server/IVA
- Small/Mid-Size Range : 16 - 64 Cameras
- Form Factors/HDD bays: Tower Base/1U4/2U8/3U16/4U24
- Large - Size Range : 64 + Cameras

	Small/Mid-Size Range Recording Solution			Large-Size Range Recording Solution	
Product Model	Vess A8020 	Vess A3120 	Vess A3340 	Vess A6600P 	Vess A6800P 
Form Factor	Tower	1U	2U	3U	4U
Camera Range	16	32-64	64-100	170	200
CPU Level	Intel Core i3-9100E	Intel Core i3-7101E	Intel Xeon E3-1275 V5	Intel CPU Xeon E-2226GE (Intel Xeon E-2226GEe)	Intel CPU Xeon E-2226GE (Intel Xeon E-2226GEe)
Internal Storage	128G M.2 SSD	128G M.2 SSD	128G M.2 SSD	256G M.2 SSD (NVMe)	256G M.2 SSD (NVMe)
Memory	DDR4, 8G upgradeable to 32G	DDR4, 8G upgradeable to 32G	DDR4, 16G upgradeable to 32G	DDR4, 32G Upgradeable to 64G	DDR4, 32G Upgradeable to 64G
Number of Drives	2	4	8	16	24
Max. Unit Capacity (TB)	2x10TB	4x18TB	8 x18TB	16 x18TB	24 x18TB
Hard Drive Interface	SATA 6Gb	SATA 6Gb	SATA 6Gb	SATA 6Gb	SATA 6Gb
Max. HDD number Supported	2	4	8	16	24
Host Interface	2 x Gigabit Ethernet	2 x Gigabit Ethernet	2 x Gigabit Ethernet	2 x Gigabit Ethernet	2 x Gigabit Ethernet
Add-On GPU Supported	-	Yes	Yes	Yes	Yes
RAID Levels	0, 1	0, 1, 1E, 3, 5, 6, 10 (0+1)	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60
iscsi Support for Capacity Expansion	Yes	Yes	Yes	Yes	Yes
SMARTBOOST™ Supported	Yes	Yes	Yes	Yes	Yes
Auto Restart	Yes	Yes	Yes	Yes	Yes
Power Redundancy	-	-	Yes	Yes	Yes
Warranty	3-Year	3-Year	3-Year	3-Year	3-Year

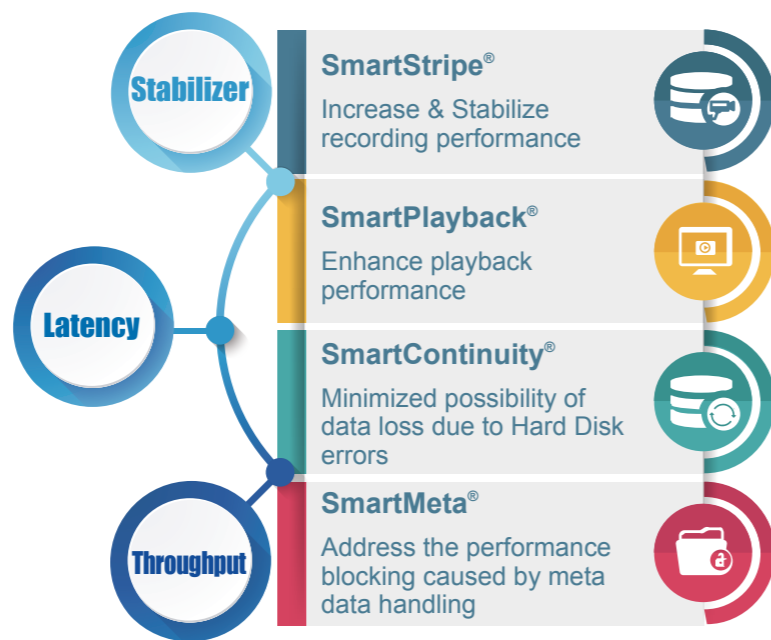
	Large-Size Range Recording / IVA Solution		Recording / Management / IVA Solution	Storage Expansion Solution		
Product Model	Vess A8600 	Vess A8800 	Vess A8120 	Vess R3600 / Vess J3600 	VTrak D5800 / VTrak J5800 	VTrak J5960 
Form Factor	3U	4U	1U	3U	4U	4U(High Density)
Camera Range	200	250	-	-	-	-
CPU Level	Xeon® Scalable Silver 4208/4210R dual CPU optional	Xeon® Scalable Silver 4208/4210R dual CPU optional	Xeon® Scalable Silver 4208, dual CPU optional	Pentium D1500 series	Pentium D1500 series	-
Internal Storage	256G M.2 SSD (NVMe)	256G M.2 SSD (NVMe)	256G M.2 SSD (NVMe)	-	-	-
Memory	DDR4, 32G Upgradeable to 192G	DDR4, 32G Upgradeable to 192G	DDR4, 32G Upgradeable to 256G	DDR4, 8G or 32G per controller	DDR4, 32G or 64G per controller	-
Number of Drives	16	24	4	16	24	60
Max. Unit Capacity (TB)	16 x18TB	24 x 18TB	4 x 18TB	16 x 18TB	24 x 18TB	60 x 18TB
Hard Drive Interface	SATA 6Gb	SATA 6Gb	SATA 6Gb, optional SAS HDD	SAS 12Gb/SATA 6Gb	SAS 12Gb/SATA 6Gb	SAS 12Gb/SATA 6Gb
Max. HDD number Supported	16	24	4	208 (VessR3600 + 12 x VessJ3600)	384 (VTrakD5800 + 15 x VTrakJ5800)	60
Host Interface	4 x Gigabit Ethernet	4 x Gigabit Ethernet	4 x Gigabit Ethernet, 10GbE Optional	4 x 1Gigabit Ethernet (per controller) (10G BaseT/SFP+/16GB FC optional)	2 x 1Gigabit Ethernet (per controller)/ 2 x 10G SFP+ (16GB FC optional) per controller	6 Mini SAS HD connectors (SFF-8644) for upstream or downstream per IOM
Add-On GPU Supported	Yes	Yes	Yes	-	-	-
RAID Levels	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60	0, 1, 1E, 3, 5, 6, 10 (0+1)	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60	-
iscsi Support for Capacity Expansion	Yes	Yes	Yes	Yes	-	-
SMARTBOOST™ Supported	Yes	Yes	Yes	PROMISE Enterprise RAID	PROMISE Enterprise RAID	-
Auto Restart	Yes	Yes	Yes	Yes	Yes	Yes
Power Redundancy	Yes	Yes	Yes	Yes	Yes	Yes
Warranty	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year



# SMARTBOOST STORAGE

The Right Storage for the Right Surveillance System

The number of security cameras in use today is growing exponentially. At the same time, resolutions are getting higher and higher. These two factors are placing heavy demands on servers and storage equipment. Certainly, the capacity of these systems is also increasing, but that alone does not make the equipment truly suitable for the most demanding applications - such as camera surveillance. A video stream is not comparable to 'normal' data, for which storage systems are usually designed. To address these issues, Promise Technology develops solutions that ensure that storage systems are not only extremely reliable, but will also last much longer.



What makes a server or storage system suitable for use with video? Of course, high storage capacity is important, but at least as essential is a high processing speed. In addition, several features are needed that increase the reliability of the entire system. For example, a so-called RAID configuration ensures that continuity does not depend on one disk. Multiple disks do the same work, so it does not matter if one or even two failures occur. The administrator gets a signal and can easily replace the malfunctioning disk without losing data, and it is not necessary to take the system temporarily 'offline'. It's true that these are features that many 'normal' servers and storage systems also have. So what makes Promise's solutions so special?

# SMARTBOOST STORAGE

The Right Storage for the Right Surveillance System



Promise's SMARTBOOST™ technology is extremely unique. This technology allows the server to support a large number of cameras, eliminates frame drops and contributes to highly stable operation. In addition to reliability, Promise's systems offer more convenience than servers and storage systems designed for normal data. They are specifically designed for connecting cameras and installing Video Management Software, such as xProtect from Milestone Systems. They are easy to use, and able to be installed and configured instantly. Many models also allow input from alarm systems, enabling cameras to be activated when an intruder is detected or an emergency door is opened. With expansion modules, highly complex systems can be realized, with storage capacity reaching up to 100 Terabytes. Such large capacities are achieved by Promise's smart technologies being used with unparalleled efficiency.