

VESS A-SERIES NVR APPLIANCES FOR IP VIDEO SURVEILLANCE

Ideal Customer Profile

- IP video surveillance deployments
- Surveillance customers who need to store data for anywhere from several weeks to years
- Looking for an IP video surveillance solution that is inexpensive and easy to deploy

Typical Customer Needs

- Best price/performance
- Low latency recording
- Easy to deploy, use and maintain
- Failsafe data protection
- Easy to scale as needs grow

Typical Customer Pain Points

- Applying storage designed for IT in surveillance applications
- Dropped video frames
- Difficulty in administering & maintaining storage solutions
- Too expensive
- Integrating hardware and software from several different vendors

Typical Use Cases

- Ideal for IP video surveillance deployments of any size and in any industry

Why Do Customers Buy the Vess A-Series?

- **SmartBoost Technologies:** Unique technologies which allow the systems to handle a much higher number of IP cameras:
 - **Predictive Playback** - Utilizes idle recording times to monitor read patterns to predict where the next playback will be needed so the hard disk drives are not competing with the workload of the system.
 - **Sequential Pattern Recording** - Eliminates the heavy workloads caused by random write patterns. Monitors recording patterns and collects data in the cache buffer and only writes data to the drives once a full stripe is ready, creating a sequential recording pattern with the smoothest performance.
- **Reduces Deployment Costs and Complexity:** Reduces support and equipment costs because there is no separate RAID storage unit to manage, eliminating the need for an extra server, controller cards, external cables, and a separate storage enclosure.
- **Open Platform:** Compatible with a range of VMS including Aimetis, Axxonsoft, CamIQ, CSVi, Digifort, OnSSI, SeeTec, Genetec, and Milestone and IP cameras from Axis, Bosch, Samsung and Sony.
- **Milestone XProtect Plug-in:** Makes storage management significantly more convenient for users as the Vess GUI is embedded in the XProtect application and runs as an integrated part of the software.
- **Surveillance Project Design Tool:** Helps determine the overall installation requirement of a given project by calculating total storage space, bandwidth needed, recording server and external storage requirements.
- **Smooth Scalability:** Easily expand via iSCSI by adding Promise Vess R2000 storage with built-in SmartBoost Technology either for live recording on external storage or for archiving.
- **Easy Management & Serviceability:** Hot swappable drive bays, redundant power supplies, & One Plug Auto Service.



Vess A3340



Technical Specifications

	Vess A2330	Vess A2200	Vess A3340/A3340d	Vess A2600
General Information				
Camera Range ²	Up to 35*	Up to 64	Up to 80*	Up to 128
Form Factor	2U, 19" Rackmount	2U, 19" Rackmount	2U, 19" Rackmount	3U, 19" Rackmount
Number Of Drives	6 Drives (3.5")	6 Drives (3.5")	8 Drives (3.5")	16 Drives (3.5")
Drive Type	SATA (6Gb/s ¹ or 3Gb/s), NCQ, TCQ, Hot Swappable			
# of Controllers	Single			
System Processor	Intel® Celeron J1900	Intel® Core™ i3	Intel® Xeon® E3	Intel® Xeon® E3
System Memory	8GB DDR3	8GB Default (Max 16GB)	8GB DDR4 (Max 32GB)	8GB Default (Max 16GB)
I/O Interface	2x Gigabit Ethernet	4x Gigabit Ethernet	2x Gigabit Ethernet	4x Gigabit Ethernet
Storage Expansion	iSCSI			
Max # of HDDs Supported	Up to 118 drives through iSCSI & JBOD expansion	Up to 118 drives through iSCSI & JBOD expansion	Up to 120 drives through iSCSI & JBOD expansion	Up to 128 drives through iSCSI & JBOD expansion
Other Interfaces				
# of USB Ports	4x USB 3.0, 2x USB 2.0	4x USB 3.0, 2x USB 2.0	6x USB 3.0, 2x USB 2.0	4x USB 2.0
PCI Express Ports	N/A	1x 16-lane Gen 2.0 PCIe, 2x 8-lane Gen 2.0 PCIe	1x PCIe 3.0 x 8, 1x PCIe 3.0 x 4	1x 16-lane Gen 2.0 PCIe, 3x 8-lane Gen 2.0 PCIe
Graphics	D-sub and HDMI	D-sub VGA and HDMI	D-sub, HDMI and Display Port	D-sub VGA and HDMI
Serial Interfaces	3x RS-232	2x RS-232C (D-sub 9-pin)	1x RS-232	2x RS-232C (D-sub 9-pin)
Audio & Microphone	2x 3.5mm Audio Jack	2x 3.5mm Audio Jack	3x 3.5mm Audio Jack + SPDIF	2x 3.5mm Audio Jack
Sensor Input/Alarm Output				
Sensor In	Compatible w/ DC3.3V to 24V, photo coupler input x 8			
Alarm Out	Max. DC 24V/1A, mechanical relay output x 8			
RAID Operational Features				
RAID Levels	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50; Any combination can exist at the same time			
Hot Spares	Multiple global or dedicated hot-spare drives with revertible option			
Max. LUNs per System/Array	256/32			
Software				
OS Supported	Windows Embedded Standard 7 Runtime (WS7P), Windows 10	Windows Embedded Standard 7 Runtime (WS7P), Windows 10, Windows Server 2012R2 Standard	Windows Embedded Standard 7 Runtime (WS7P), Windows 10, Windows Server 2012R2 Standard	Windows Embedded Standard 7 Runtime (WS7P), Windows 10, Windows Server 2012R2 Standard
Management Tools	Graphical UI/SNMP via Ethernet, CLI/CLU via Ethernet or Graphics, OPAS Service via USB, SDK or API for Integration			
Surveillance Optimization	SmartBoost Technologies for optimized video surveillance performance			
Event Notification	Email, SNMP, Buzzer, LEDs			
System Information				
AC Input	100 ~ 240 VAC, 60 ~ 50Hz			
Current (Maximum)	1.1A	4A (100V); 2A (240V)	2.5A	4A (100V); 2A (240V)
Power Supply	250W	Three redundant 250W, Energy-efficient 80PLUS Certified, 90-264V full-ranging w/PFC, Hot swappable N+1 Design	A3340: 350W A3340d: Dual 350W	Three redundant 250W, Energy-efficient 80PLUS Certified, 90-264V full-ranging w/PFC, Hot swappable N+1 Design
BTU	375.43 BTU/h	1288 BTU/hr	853.25 BTU/h	1729 BTU/hr
Fan	Swappable	Hot swappable design	Redundant	Hot swappable design
Temperature	5° ~ 40°C (-40° ~ 60°C non-operational)			
Weight	6.8kg (14.96 lbs) w/o drives 10.94kg (24.1 lbs) w/drives	10.4kg (22.9 lbs) w/o drives 14.9kg (32.8 lbs) w/drives	7.38kg (16.23 lbs) w/o drives 12.9kg (28.38 lbs) w/drives	15.9kg (35.1 lbs) w/o drives 27.9kg (61.5 lbs) w/drives
Safety/EMI	FCC/CE/VCCI/RCM/BSMI/UL/cUL/Nemko	CE, FCC Class A, BSMI, CB, KC, UL/cUL, CCC	FCC/CE/VCCI/RCM/BSMI/UL/cUL/Nemko	CE, FCC Class A, BSMI, CB, KC, UL/cUL, CCC
Warranty and Support				
Warranty	3 year limited warranty			
Optional Accessories	Sliding Rail, 2/4/8GB DDR3 Memory			

¹ Hard disk drive still runs at 3Gb/s speed

² The ideal camera range were the test output with fully populated enclosure and 8GB memory under 20FPS, H.264 and High Video Quality compression

*This number are tested under criteria w/o frame lost at 720p@30fps@H.264

** Vess A3340 PoE will be released in Q4, 2016

Specifications may change without prior notice

