

Vess A2330 and A3340 NVR Appliances



The Open Storage Platform for Video Surveillance

The Promise Vess Series of NVR appliances are reliable integrated server and storage solutions for IP video surveillance. Vess NVR appliances are open platform solutions that can be deployed with any of the leading IP cameras and video management software (VMS) for installations of any size – from standalone units for retail stores to large scale deployments requiring hundreds of cameras and petabytes of storage.

Vess A2330

NVR appliance for small-sized IP video surveillance deployments. Reliable and easy to set up. It is the ideal solution for customers requiring a cost-effective solution that offers low latency recording to safely store all the footage needed to protect their business.



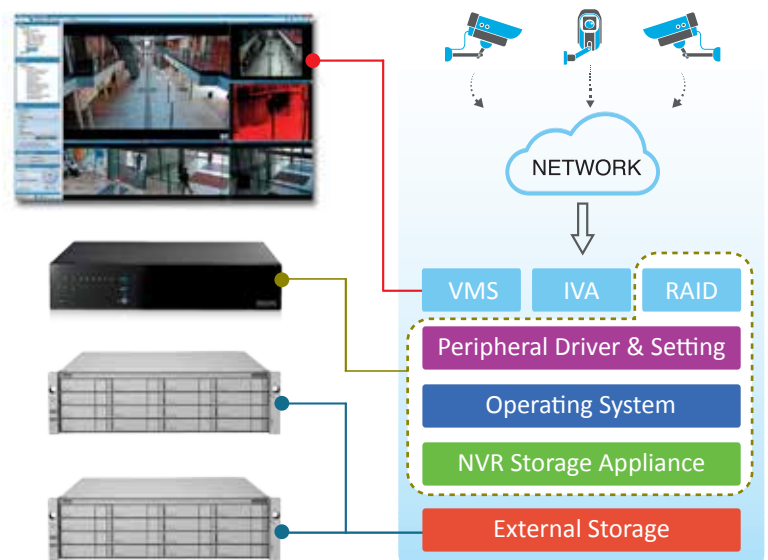
Highlights

- Excellent value for a high-performance recording server system
- Perfect for up to 35 IP cameras
- Out of the box solution
- 3-year warranty – can be extended to 5 years
- 2U 6-bay rackmount chassis
- Easy Expandability with Promise storage

Ideal for:

- Small-sized installations: retail stores, clinics, classrooms, gas stations

Vess NVR Appliance with 3rd Party VMS



Vess A3340 Series

Ideal for small-sized as well as mid-sized video surveillance installations. Reliable, cost-effective and easy to deploy and maintain. Powerful solution that enables it to easily handle the intensive demands of the latest VMS and analytics.

There are 2 models available. A3340s is offered with a single Power Supply Unit (PSU) and A3340d is equipped with dual redundant PSUs. Redundant PSUs can guarantee the system while remain operating even when one PSU fails.



Highlights

- High-performance, state of the art design
 - Perfect for up to 80 IP cameras
 - Out of the box solution
 - 3 year warranty – can extend to 5 years
 - 2U 8-bay rackmount chassis
 - Easily add Promise storage to expand capacity
 - Option for single or redundant PSUs
- Ideal for:**
- Small-sized installations: retail stores, clinics, classrooms, gas stations
 - Mid-sized installations: banks, casinos, prisons, schools, transportation, city surveillance, public facilities, government, gas stations, retail stores, offices, banks

Why Promise

Supreme Service Technology Leader Customization Flexibility	Promise	IPC	White Box
Complete Server + Storage + Solution	√	?	√
Full OEM/ODM Customization Service	HW/SW	HW	x
Dedicated Team Support	√	√	x
SmartBoost Technologies	√	x	x
VMS Integration	√	x	x
Partner Proven	√	?	x
Price Performance Index	Best	Good	Good
Product Life	Long	Long	Short
Cloud Surveillance Infrastructure	√	x	x
Worldwide Service and Support	√	?	?

Promise Alliance Partners



Why Promise Vess NVR Appliances?

All-in-One Server and Storage Appliance

- No separate RAID storage unit to manage, eliminating the need to purchase an extra server, controller cards, and external cables.
- Always same components, reduces maintenance and service costs

Highly Integrated with Smooth Scalability

- SDK library provided for VMS UI & management integration. Supports Milestone VMS plug-in enabling it to be managed via XProtect interface
- Easily expand via iSCSI by adding Promise storage.

Simplified Management and Serviceability

- Modularized design and One Plug Auto Service which simplifies maintenance and tech support workflows.

Partner Proven

- Fully compatible with a range of VMS, including Aimetis, AxxonSoft, CamIQ, CSVi, Digifort, Genetec, Milestone and OnSSI and IP cameras from Axis, Bosch, Samsung and Sony

Simplified Planning




- With just a few clicks of the Promise online planning tool you can easily get the whole picture of what you need for your project, including the NVR and storage requirements, how to configure the servers and storage and see a topology of the interconnecting systems with the most popular and recommended settings. Start planning now at: <http://www.promise.com/Surveillance/DesignTool>

SmartBoost Technologies

Unique features designed to provide the highest level of service and overcome performance bottlenecks to allow Vess NVRs to handle a higher number of IP cameras than competing solutions.

- **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.
- **Remote Active Service** - takes all worries away by proactively detecting when PSU, controllers or HDDs are going into critical condition and automatically notifying Promise support so the customer can be contacted, spare parts can be sent out or the unit can be powered up after an outage - vitally important in environments that cannot risk downtime. A huge advantage in installations with site restrictions, such as banking, as it not only saves maintenance costs but also the headaches caused when outside support personnel need access to restricted areas.
- **Sequential Pattern Recording** - eliminates the heavy workloads caused by random write patterns as this feature monitors recording patterns and collects data in the cache buffer and only writes data to the drives once a full stripe is ready. This creates a sequential recording pattern which offers the smoothest performance.

Product Specifications

Model	Vess A2330	Vess A3340	Vess A3340d
Product Photo			
Camera Range	Up to 35*	Up to 80*	
Form Factor	2U, 19" Rackmount		
Number Of Drives	6 Drives (3.5")	8 Drives (3.5")	
Drive Type	SATA		
# of Controllers	Single		
System Processor	Intel® Celeron J1900	Intel® Xeon® E3	
System Memory	8GB DDR3	8GB DDR4	
Internal Built-in Storage for OS	mSATA 64GB	M.2 64GB	
I/O Interface	2 x Gigabit Ethernet		
Storage Expansion	iSCSI		
Max # of HDDs Supported	Up to 112 drives through iSCSI & JBOD expansion		
Other Interfaces			
# of USB Ports	4x USB 3.0, 2x USB 2.0	6x USB 3.0, 2x USB 2.0	
PCI Express Ports	N/A	1 x PCIe 3.0 x 8 1 x PCIe 3.0 x 4	
Graphics	D-sub and HDMI	D-sub, HDMI and Display Port	
Serial Interfaces	3x RS-232	1x RS-232	
Audio & Microphone	2x 3.5mm Audio Jack	3x 3.5mm Audio Jack + SPDIF	
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			
Preloaded OS (64-bit)	Windows Embedded Standard 7 (WS2012 R2, WSS2012 R2, Win10 IOT and Linux)		
Management Tools	Graphical UI/SNMP via Ethernet, CLI/CLU via Ethernet or Graphics, OPAS Service via USB, SDK or API for Integration		
SmartBoost Technologies	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	2.5A	
Power Consumption	110W	250W	
BTU	375.43 BTU/h	853.25 BTU/h	N/A
Power Supply	250W	350W	Dual 250W
Fan	Swappable	Redundant	
Temperature	5° ~ 40°C (-40° ~ 60°C non-operational)		
Dimensions (H x W x D)	88.5 x 440 x 395 mm (3.5 x 17.3 x 15.6 in)	88.2 x 440 x 410 mm (3.5 x 17.3 x 16.1 in)	
Weight	6.8kg (14.96 lbs) w/o drives 10.94kg (24.1 lbs) w/drives	7.38kg (16.23 lbs) w/o drives 12.9kg (28.38 lbs) w/drives	
Safety/EMI	FCC/CE/VCCI/RCM/BSMI/UL/cUL/Nemko		
Warranty and Support			
Warranty	3 year limited warranty		
Optional Accessories	Sliding Rail, 2/4/8GB DDR3 Memory	Sliding Rail, 2/4/8GB DDR4 Memory	

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

