

# 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.



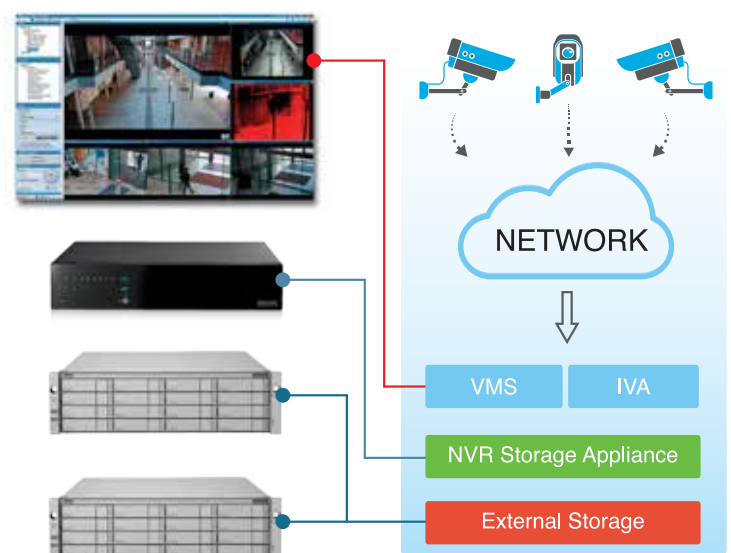
### 📍 Highlights

- Excellent value for a high-performance recording server system
- Perfect for up to 40 IP cameras
- Out of the box solution
- 3 year warranty – can extend to 5 years
- 2U 6-bay rackmount chassis
- Easily add Promise storage to expand capacity

#### Ideal for:

- Small-sized installations: Retail stores, Clinics, Classrooms, Gas stations

### Vess NVR Appliance with 3rd Party VMS



## Vess A3340

Ideal for 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.



### 📍 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

#### Ideal for:

- Banks, casinos, prisons, schools, transportation, city surveillance, public facilities, government

## Vess A3340 PoE

Identical to the Vess A3340 but it is designed with a built-in smart Power over Ethernet (PoE) switch that is easily managed via a web browser. Reduces costs and makes camera set up significantly more flexible since without cabling issues there is more choice over camera locations. System management is much easier.



### Vess A3340 PoE Advantages

- Simple, cost-effective approach for cameras installed where power is hard to reach.
- Easier to adjust camera setup or location without worrying about the power issue.

#### Save Costs

- Bypass costs of plugs, cables and installation.

#### Eliminate Risks of Power Failure

- Centralizes the power supply under UPS for scattered devices, so the system will not stop operating if any local regional power failure.

#### Safer Systems

- Lowers the risk of current leakage since power starts to supply and voltage exists only when devices needing power are connected.

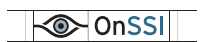
### 📍 Highlights

- Easier to set up and manage
- High performance and cost effective
- Directly connect up to 16 IP cameras to built-in PoE switch
- 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

#### Ideal for:

- Gas stations, retail stores, offices, banks

## 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, OnSSI, SeeTec, Genetec, and Milestone 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 A3340 PoE**
Product Photo			
Camera Range	Up to 40*	Up to 80*	Up to 80*
Form Factor	2U, 19" Rackmount		
Number Of Drives	6 Drives (3.5")	8 Drives (3.5")	8 Drives (3.5")
Drive Type	SATA		
# of Controllers	Single		
System Processor	Intel® Celeron J1900	Intel® Xeon® E3	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		
Number of PoE port	N/A	N/A	16 Smart PoE+ (IEEE802.3at) ports
<b>Other Interfaces</b>			
# 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	N/A
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	
<b>RAID Operational Features</b>			
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		
<b>Software</b>			
Preloaded OS (64-bit)	Windows Embedded Standard 7		
Management Tools	Graphical UI/SNMP via Ethernet, CLI/CLU via Ethernet or Graphics, OPAS Service via USB, SDK or API for Integration		
Appliance Model	Surveillance Optimization @ Arrays in Normal and Degraded		
Event Notification	Email, SNMP, Buzzer, LEDs		
<b>System Information</b>			
AC Input	100 ~ 240 VAC, 60 ~ 50Hz		
Current (Maximum)	1A-2A		5A
Power Consumption	110W	250W	N/A
BTU	375.43 BTU/h	853.25 BTU/h	N/A
Power Supply	250W	350W	520W
Fan	Swappable	Redundant	Swappable
Temperature	5° ~ 40°C (-40° ~ 60°C non-operational)		
Dimensions (H x W x D)	88.2 x 440 x 400 mm (3.5 x 17.3 x 15.7 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	14kg (30.8 lbs) w/o drives 19.52kg (42.9 lbs) w/drives
Safety/EMI	FCC/CE/VCCI/RCM/BSMI/UL/cUL/Nemko		
<b>Warranty and Support</b>			
Warranty	3 year limited warranty		
Optional Accessories	Sliding Rail, 2/4/8GB DDR3 Memory	Sliding Rail, 2/4/8GB DDR4 Memory	

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

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

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