



Vess A6000 Data Sheet



### Features

- ▶ **Optimized for Surveillance**  
Storage appliance optimized for IP video surveillance.
- ▶ **Extensive VMS Support**  
Certified/tested with the world's leading video management software.
- ▶ **Midsize to Large-Scale Solutions**  
Ideal for more than a hundred full-HD IP cameras, perfect for banking, retail, gaming, manufacturing, and more.
- ▶ **Easy to Administer & Maintain**  
Hot swappable drive bays, redundant power supplies, & One Plug Auto Service (OPAS) ensure Vess is incredibly easy to administer and maintain.
- ▶ **Cost Effective & Scalable**  
Integrated solution results in less management overhead; it's easy and economical to expand storage capacity using the Promise JBOD external storage series.

### More Flexible Deployment with Linux OS Supported

Linux users now have more options for their surveillance system deployment. Promise Vess A Series supports Linux distributions on select Vess A models for surveillance networks running Linux-based VMS in the back-end system(\*).

### Optimized for Video Surveillance

The Vess A6000 Series storage appliance is specially engineered for IP video surveillance deployment of medium to large scale; ideally suited for surveillance systems in banks, malls, casinos, factories, warehouses, commercial, residential, governmental or private enterprises. The subsystems are capable of continuous recording and playback operation without dropping frames.

### Higher Capacity with Better Design

Two options for large HDD capacity enclosures are available: the 3U 16-drive Vess A6600 and 4U 24-drive Vess A6800. Promise Technology knowhow creates a winning combination of performance and reliability for midsize to large scale surveillance deployments. If a larger storage system is required, it can be scaled up cost effectively with the Promise JBOD products, extending capacity without the paying for an additional RAID server.

### Reduced Deployment Costs and Complexity

Lower support and equipment costs: Vess A6000 eliminates the need to buy and manage a separate RAID storage unit, no need for a separate server, controller cards, external cables, or separate storage enclosure. Interoperability conflicts are eliminated for these hardware components by combining them all in one system.



### SMARTBOOST™ Technology

PROMISE proprietary SMARTBOOST™ Technology provides the most stable and high performance storage solution for your surveillance system. By removing storage equipment bottlenecks performance is significantly boosted. The optimized software features and FRU hardware design of Vess A6000 deliver outstanding stability and storage performance with the best C/P ratio.

### Reduced Maintenance Complexity with OPAS

One Plug Auto Service (OPAS), a feature unique to Promise's video surveillance solutions, offers user convenience, reduced complexity, lower maintenance cost and streamlined technical support. OPAS enables easy collection of the logs and data used by the Promise support team for system analysis.

## Technical Specifications

	Vess A6600	Vess A6800
<b>Model</b>		
<b>General Information</b>		
Camera Range <sup>1</sup>	150	200
Form Factor	3U, 19" Rackmount	4U, 19" Rackmount
Number Of Drives	16 Drives (3.5")	24 Drives (3.5")
Drive Type	12Gbs SAS/ 6Gbs SATA @ 3.5", SSD capable @2.5" <sup>2</sup> , Hot Swappable	12Gbs SAS/ 6Gbs SATA @ 3.5", SSD capable @2.5" <sup>2</sup> , Hot Swappable
# of Controllers	Single	Single
System Processor	Intel Xeon E3-1275v5	Intel® Core™ i7-7700
System Memory	8GB x 2 Default (Max 64GB)	8GB x 2 Default (Max 64GB)
I/O Interface	2x Gigabit Ethernet	2x Gigabit Ethernet
Internal Storage (M.2)	128GB	128GB
Storage Expansion	Optional Promise SAS and iSCSI Storage	Optional Promise SAS and iSCSI Storage
Max # of HDDs Supported	Up to 96 drives through SAS JBOD expansion(iSCSI optional)	Up to 104 drives through SAS JBOD expansion(iSCSI optional)
<b>Other Interfaces</b>		
# of USB Ports	4x USB 3.0, 2x USB 2.0	
PCI Express Ports	1x8-lane gen3	
Graphics	D-sub x 1, DVI x 1, HDMI x 1	
Microphone	5x 3.5 mm + 1xSPDIF Audio Jack	
<b>RAID Operational Feature</b>		
RAID Levels	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60. 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>		
OS Supported (64-bit)	Windows 10, WS 2016, WS 2019, Cent OS 7.6	
Management Tools	Graphical UI/SNMP via Ethernet, CLI via Ethernet or Graphics, OPAS Service via USB, SDK or API for Integration	
Appliance Mode	Surveillance Optimization @ Arrays in Normal and Degrade	
Event Notification	Email, SNMP, Buzzer, LEDs	
<b>System Information</b>		
AC Input	100 ~ 240 VAC, 60 ~ 50Hz	
Current (Maximum)	8-4A	
Power Supply	Redundant 550W for each power, Hot swappable N+1 Design (80 PLUS certified)	
Controller	Replaceable FRU design	
Temperature	5° ~ 40°C (-40° ~ 60°C non-operational)	
Dimensions (H x W x D)	131 x 503 x 447 mm	173 x 503 x 447 mm
Weight	System W/O HDD: 16.11kg System W/ HDD: 26.84kg	System W/O HDD: 19.26 kg System W/ HDD: 35.36 kg
Safety/EMI	CE, FCC, VCCI, RCM, BSMI, KC, (EMI Class A), CB <sup>3</sup> , cTUVus <sup>4</sup> VES0603	CE, FCC, VCCI, RCM, BSMI, KC, (EMI Class A), CB <sup>3</sup> , cTUVus <sup>4</sup> VES0604
<b>Warranty and Support</b>		
Warranty	3 year limited warranty <sup>5</sup>	
Optional Accessories	Sliding Rail, 8/16 GB DDR4 Memory	

<sup>1</sup> The ideal camera range were the test output with fully populated enclosure and 16GB memory under 1080P/30FPS/5Mbps/H264/Pure Recording/Motion Detection disabled/Normal RAID Status.

<sup>2</sup> For 2.5" SSD/HDD it will need to use different optional carriers.

<sup>3</sup> CB Report is tested according to IEC/EN 60950-1 and IEC/EN 62368-1

<sup>4</sup> cTUVus label marking is tested according to UL 62368-1 and CAN/CSA-C22.2 NO. 62368-1.

<sup>5</sup> Available to purchase the extra 2 years warranty to total 5 years warranty.

\*The final spec may be vary without further notice, please check with Promise website for the latest information

