External Storage Solutions

Vess R2000 External Storage Series

- Industry-leading performance and reliability at an excellent price
- Dual active-active SAS 6Gbps I/O modules
- Dual redundant, hot-swappable power supplies
- Energy efficient system reduces power and cooling costs

The high availability active-active Vess R2000 Series is designed for data-intensive industries, including media & entertainment, finance, and government. The series features One Plug Auto Service (OPAS) to reduce maintenance complexity and downtime. Quick installation in initial setup dramatically reduces workload required.

Operating Mode Customized for Video Surveillance

The Vess R2000 Series is designed to feature an operating mode for video surveillance Customers. Sundial Mode delivers instant and stable performance for surveillance video recording, especially when an array is in a critical state or during expansion. Long retention periods and reliable high bandwidth throughput are a must.

Easy Maintenance and Serviceability

The Vess R2000 Series is designed specifically with budget-conscious customers in mind. It includes the Promessa R2000 Series to deliver maintenance-free and easy maintenance. It includes the option to purchase a maintenance contract and a warranty period of up to 3 years. It also includes the option to upgrade firmware remotely over the network.

Highlights

- Fast storage deployment
- Full storage capacity
- Energy efficient system
- Reliable N+1 redundant power supplies
- 3U-16 form factor featuring hot-swappable drive bays
- Dual active/active SAS JBOD I/O modules
- Supports 6Gbps & 3Gbps SAS & SATA drives simultaneously
- Expand up to 112 disk drives with Vess J2000 expansion units
- Industry leading performance and reliability at an excellent price
- Firmware auto upgrade provides a new user level runtime events that have occurred.
- Comprehensive system report that contains
- it's always challenging when you deal with numerous similar issues.
- It's always challenging when you deal with numerous similar issues.

Firmware Auto Upgrade

- Systeminfo Retrieval
- Quick Installation
- Password Reset
- Firmware upgrade is operator-intensive, script for
- runtimes required.
- Quick installation in initial setup dramatically
- reduces workload required.
- Effective system reduces power and cooling costs
- Reliable N+1 redundant power supplies
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Model Name: Vess A2200 & Vess A2600

Product Image:

SS Storage Appliance Solutions

SS Storage Appliance Solutions

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Product Image:
Why Vess for Video Surveillance?

Designed for Video Surveillance

The demands of video surveillance applications are unique and you need storage solutions that are designed to excel in this environment. Vess is designed for video surveillance, eliminating the complexity of integrating a solution designed for IT in a surveillance environment. Vess delivers the best price-performance ratio of any competitor on the market, a huge asset to customers who demand outstanding performance on a tight budget.

Industry Leading Reliability

Reliable performance is crucial for video surveillance. When a storage array is newly configured, its performance is at its best. If the array is subject to a critical state or during rebuild, which is key to eliminating frame dropping.

Vess Series Highlights

- Designed for video surveillance recording
- Ideal for up to over a hundred full-HD IP cameras
- Integrated solution includes video management software
- Easy to afford thanks to the Vess A2000 Series
- Ideal for up to over a hundred full-HD IP cameras

NVR Storage Appliances

NVR Storage Appliances for IP Video Surveillance

NVR Storage Appliances for IP Video Surveillance

Vess A2000 Series Highlights

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- Ideal for up to over a hundred full-HD IP cameras
- Integrated solution results in a cost management
- Easy to afford thanks to the Vess A2000 Series
- Ideal for up to over a hundred full-HD IP cameras

Flexible Solution

The Vess A2000 Series is integrated with the operating system of your choice and customers are provided with the option to purchase the system with or without hard disk drives. The Vess A2000 Series supports video management software (VMS) installed, allowing users to deploy the VMS of their choice. Additionally, the stand-alone Vess NVR greatly reduces support and equipment costs because there is no separate RAID storage unit to manage, eliminating the need for a server, controller, cables, or a separate storage enclosure. When used as a complete video surveillance system, the Vess A2000 Series NVR storage appliances does it all!

Rapid Video Recording

If any of the drives fail, the system enters degraded or critical mode status which greatly impacts streaming performance (Fig. 5). The latest disk now needs to be replaced as the rebuild can start. During the rebuild, streaming performance can be much more unstable, as in addition to the normal request load the controller needs to reserve some computing power for the rebuild (Fig. 6).

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Reliable performance is crucial for video surveillance. When a storage array is newly configured, its performance is at its best. If the array is subject to a critical state or during rebuild, which is key to eliminating frame dropping.

Partner Proven

The Vess Series has been certified and tested with the world’s leading video management software, including Milestone, Genetec, AxxonSoft, and CamIQ, delivering the highest levels of compatibility and performance. This provides a complete solution at a great price point, ensuring that customers’ expectations for excellence, performance, and scalability are met.

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Why Vess for Video Surveillance?

The demands of video surveillance applications are unique and you need storage solutions that are designed to excel in this environment. Vess is designed for video surveillance, eliminating the complexity of integrating a solution designed for IT in a surveillance environment. Plus, Vess delivers the best price-performance ratio of any competitor on the market, a huge asset to customers who demand outstanding performance on a tight budget.

Industry Leading Reliability
Reliability is paramount in video surveillance. When a storage array is newly configured, its performance is critical before it’s filled up with video data. Once the array is filled, the performance pattern becomes a continual process of writing off-peak surveillance video data and writing on-peak video data, creating a workload that slightly impacts performance.

If any of the drives fail, the system enters degraded or critical state which greatly impacts performance. The Vess Series is engineered specifically to tackle these challenges. The Vess Series delivers industry leading reliability by providing non-intrusive and stable performance for surveillance video recording, especially over the array is in a critical state or during rebuild, which is key to avoiding frame dropping.

Partner Proven
The Vess Series has been certified and tested with the world’s leading video management software, including Milestone, Genetec, Avigard, and Canon, delivering the highest levels of compatibility and performance. This provides a complete solution at a speed price point, ensuring that customers’ expectations for excellence, performance, and scalability are met.

Vess A2000 Series Highlights
• Optimized for video surveillance recording
• Ideal for up to 100 hundred full HD IP cameras
• Integrated solution results in less management overhead
• Easy to affordable to license with the Vess A2000 Series
• Fast scalable disk bases, included power supplies, & One Plug Auto Service ensure ease of installation confidence is matched.

The Vess A2000 Series NVR storage appliances are engineered specifically to be the best solution for midsize to large-scale IP video surveillance deployments. Featuring native protection that provides performance reliability, without restoring home and household videos, or enabling for gaming, banking, transportation, manufacturing and every more industries.

Vess A2000 Series

- Designed for Video Surveillance
- NVR Storage Appliances
- For IP Video Surveillance
- Partner Proven
- Industry Leading Reliability
- Flexible Solution

NVR Storage Appliances

- For IP Video Surveillance
- System Video Throughput

Flexible Solution
The Vess A2000 Series is integrated with the operating system of your choice, and customers are provided with the option to purchase the system with or without pre-installed software. Plus, the Vess A2000 Series supports on-site video managed software (VMS) installation, allowing users to deploy the VMS at their own pace.

Additionally, the stand-alone Vess NVR greatly reduces support and equipment costs because there is no separate RAID storage unit to manage, eliminating the need for a server, controller cards, external cables, and a separate storage enclosure for a complete video surveillance system. The Vess A2000 Series NVR storage appliance does it all.

Integrated Solution - Easier to Manage & Grow
The all-in-one Vess A2000 Series makes it incredibly easy to scale as your surveillance needs grow. Security practitioners can easily scale with no user configuration, just plug and play. When external storage is a must, easily scale up with PROMISE's Vess external storage series, creating a total video surveillance solution that combines a recording appliance and external storage.

Mids to Large Range NVR Storage Solutions with 3rd Party VMS

PROMISE Proposal

System Video Throughput
The Vess A2000 Series can support up to over a hundred full HD IP cameras. Check out the table below to see the number of cameras supported based on the image resolution, bit rate, compression ratio, and frame per second.

<table>
<thead>
<tr>
<th>CODEC</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
<th>MAX. Camera#</th>
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</thead>
<tbody>
<tr>
<td>H.264</td>
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<td>73</td>
<td>55</td>
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<tr>
<td>MJPEG</td>
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<tr>
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<td>162</td>
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<tr>
<td>High</td>
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External Storage Solutions

Vess R2000 External Storage Series

- Industry leading performance and reliability at an excellent price
- Ultralow power consumption
- Density of up to 1.7 storage units per m²
- Inside bus expansion with 1x8 SAS RAID
- Dual advanced E4S, E400 OC modules
- Air flow factor featuring low nanometer dust inlets
- Reliability for mission-critical power supplies
- Energy efficient system reduces power and cooling costs

The Vess R2000 Series is designed specifically with budget conscious customers in mind as it features One Plug Auto Service (OPAS) to reduce maintenance complexity and cost.

Easy Maintenance and Serviceability

The Vess R2000 Series is conveniently designed to feature an operating mode for video recording, especially when an array is in a critical state or during runtime events that have occurred. Comprehensive system reports that contain detailed information such as NVRAM events and firmware auto upgrade provides a new user level runtime events that have occurred.

Operating Mode Customized for Video Surveillance

The Vess R2000 Series is designed to feature an operating mode for video surveillance customers. Surveillance mode delivers time-repeatable and stable performance. It provides full control for video recording, especially when an array is in a critical state or during runtime events.

Highlights

- Energy efficient system reduces power and cooling costs
- Reliable N+1 redundant power supplies
- 3U-16 form factor featuring hot-swappable drive bays
- Dual active/active SAS JBOD I/O modules
- Supports 6Gbps & 3Gbps SAS & SATA drives simultaneously
- Expand up to 112 disk drives with Vess J2000 expansion units
- Industry leading performance and reliability at an excellent price
- Firmware auto upgrade provides a new user level runtime events that have occurred.

Vess R2000 External Storage Series

---|---|---|---|---|---
Product Image | | | | | |
Product Category | External Storage Array | External Storage Array | External Storage Array | External Storage Array | External Storage Array
Availability | Released | Released | Released | Released | Released
RAID Levels | 0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50 | 0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50 | 0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50 | 0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50 | 0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50
Cache Memory per Controller | 2GB Standard (max. 16GB) | 2GB Standard (max. 16GB) | 2GB Standard (max. 16GB) | 2GB Standard (max. 16GB) | 2GB Standard (max. 16GB)
Max. # of HDDs Supported | 118* | 128** | 112 | 112 | 112
Power Supply | 500W (Three redundant 250W N+1 design), 1288 BTU/hr | 500W (Three redundant 250W N+1 design), 1288 BTU/hr | 500W (Three redundant 250W N+1 design), 1288 BTU/hr | 500W (Three redundant 250W N+1 design), 1288 BTU/hr | 500W (Three redundant 250W N+1 design), 1288 BTU/hr
Dimensions (H x W x D) | 86.0 x 447 x 507 mm, 8.5 x 17.6 x 19.7 in | 100 x 447 x 507 mm, 3.9 x 17.6 x 19.7 in | 100 x 447 x 507 mm, 3.9 x 17.6 x 19.7 in | 100 x 447 x 507 mm, 3.9 x 17.6 x 19.7 in | 100 x 447 x 507 mm, 3.9 x 17.6 x 19.7 in
Weight | 20.1 kg (44.3 lbs) w/o drives, 27.9 kg (61.5 lbs) w/ drives | 20.1 kg (44.3 lbs) w/o drives, 27.9 kg (61.5 lbs) w/ drives | 20.1 kg (44.3 lbs) w/o drives, 27.9 kg (61.5 lbs) w/ drives | 20.1 kg (44.3 lbs) w/o drives, 27.9 kg (61.5 lbs) w/ drives | 31.3 kg (69 lbs) w/ drives
System Processor | Intel® Core™ i3 Dual-core 4-thread | Intel® Xeon® E3 Quad-core 8-thread | Intel® Xeon® E5 Quad-core 8-thread | Intel® Xeon® E5 Quad-core 8-thread | Intel® Xeon® E5 Quad-core 8-thread
System Memory | 8GB Standard (max. 16GB) | 8GB Standard (max. 16GB) | 8GB Standard (max. 16GB) | 8GB Standard (max. 16GB) | 8GB Standard (max. 16GB)
RAID Support | SATA (6Gb/s* or 3Gb/s) | SATA (6Gb/s* or 3Gb/s) | SATA (6Gb/s* or 3Gb/s) | SATA (6Gb/s* or 3Gb/s) | SATA (6Gb/s* or 3Gb/s)
Expansion through iSCSI and multiple JBOD expansion enclosures
Initiator still runs at 3Gb/s mode

Expansion through iSCSI and multiple JBOD expansion enclosures
Initiator still runs at 3Gb/s mode

For more information, visit www.promise.com.
External Storage Solutions

Operating Mode Customized for Video Surveillance

The Vess R2000 Series is designed to feature an operating mode for video surveillance customers. Surveillance mode delivers more reliable and stable performance for surveillance video recording, especially when an array is in a critical state or during runtime events that have occurred.

Easy Maintenance and Serviceability

The Vess R2000 Series is designed specifically with budget conscious customers in mind, and the 2U chassis of the Vess R2000 Series to deliver high-reliability and easy maintenance. The firmware auto-upgrade feature reduces workload required.

Firmware Auto Upgrade

Firmware upgrade is operator-intensive, script for quick installation in initial setup dramatically reduces installation time and increases user productivity while doing storage system update in the practice while doing storage system update in the production environment.

Password Reset

The Vess R2000 Series offers a secure password reset feature for tech support, upgrade firmware, and reset passwords to streamline an easier tech support workflow. Simply plug in a USB drive and the user can retrieve information about the system for tech support, upgrade firmware, and reset passwords.

High Availability Active-Active Vess R2000 Series

The high availability active-active Vess R2000 Series is designed for data-intensive applications where downtime is unacceptable, especially when an array is in a critical state or during runtime events that have occurred.

The latest advances in video surveillance are helping a growing number of organizations and corporations protect their interests from the diverse and growing threats that exist today. As a worldwide storage leader, PROMISE Technology develops high-performance storage solutions that solve the unique challenges customers face in video surveillance. With outstanding design, performance, and support, PROMISE’s industry leading NVR storage appliances and external storage solutions deliver the optimal mix of features and capabilities that exceed the critical requirements of video surveillance.

www.promise.com