

PROMISE Vess™ A2000 Series



Storage Solutions Designed for Surveillance Vess A2200 & A2600 NVR Storage Appliances

Features

Optimized for Surveillance
NVR 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 up to over a hundred full-HD IP cameras making it perfect for banking, retail, gaming, manufacturing, and many more industries

Cost Effective & Scalable
Integrated solution results in less management overhead, plus it's easy & affordable to add capacity with the Vess R2000 external storage series

Easy to Administer & Maintain
Hot swappable drive bays, redundant power supplies, & One Plug Auto Service ensure Vess is incredibly easy to administer & maintain

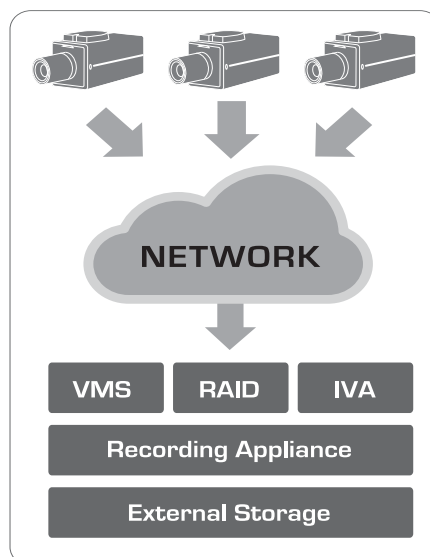


Engineered for Video Surveillance

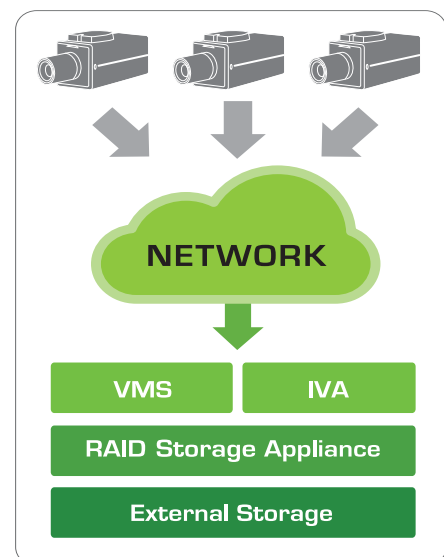
The Vess A2000 Series NVR storage appliance is engineered specifically to be the best solution for midsize to large-scale IP video surveillance deployments. Featuring failsafe protection that provides continuous recording without dropping frames under live playback conditions, it is ideal for 32 to over a hundred full-HD IP cameras, making it perfect for banking, retail, gaming, manufacturing, and many more industries.

Reduces Deployment Costs and Complexity

The Vess A2000 Series 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. Additionally, the Vess A2000 Series reduces interoperability conflicts caused when integrating different hardware.



Generic Practice



PROMISE Proposal

Your Solution to Security



Integrated Solution - Easier to Manage & Grow

The Vess A2000 Series integrates the recorder and storage in a single solution making it significantly easier to scale as your business grows. Security practitioners can easily scale with no user configuration, just plug and add. When external storage is a must, easily scale up with PROMISE's Vess storage series, creating a total video surveillance solution that combines a recording appliance and external storage.

Support for Security Partners



PROMISE has certified and validated the Vess A2000 appliance with the top solutions in the industry, including applications from AxonSoft, Genetec, ONSSI, SeeTec, Milestone Systems, and more, offering customers more flexibility when building surveillance deployments. Plus, the Vess A2000 Series now supports the Milestone XProtect plug-in which allows users to manage the Vess A2000 series via the user interface of XProtect, making it significantly more convenient for users to manage their storage.

Surveillance Solution Planner

PROMISE Surveillance Project Design Tool 2.0 takes video surveillance solution planning into next level. Planner 2.0 provides recommendations for deployments and overall topology based on requirements input by the user. The full report indicates a specific number of cameras, bandwidth and storage capacity for each deployment. In addition, three widely used surveillance software platforms, Milestone, Axonsoft and SeeTec, are available for inclusion in the plan. Users can select a preferred VMS or use it to compare planner outcomes with alternative VMS options.

Try it on: www.promise.com/Promotion/Surveillance-Project-Design-Tool

System Video Throughput

| FPS | Model | HD | 1.3MP | 2MP | Full HD |
|-----|---|-----|-------|-----|---------|
| 20 |  | 107 | 68 | 55 | 49 |
| 25 | | 68 | 62 | 49 | 42 |
| 30 | | 64 | 59 | 42 | 32 |
| 20 |  | 130 | 117 | 77 | 71 |
| 25 | | 117 | 99 | 71 | 65 |
| 30 | | 108 | 88 | 65 | 57 |

Recommended Products

- NVR Storage Appliance: Vess A2000 (3)
- RAD Storage: Vess R2000R (3)
- J800 Expansion: Vess J2000R (4)

Table Summary

| Camera Group | Camera Group ID | Camera Count | Required Bandwidth | Required Storage | Video Resolution |
|--------------|-----------------|--------------|--------------------|------------------|------------------|
| 1 | 1 | 44 | 330 Mbps | 224.227 TB | Cam1 - 44 |
| | 2 | 44 | 330 Mbps | 224.227 TB | Cam1 - 44 |
| | 3 | 12 | 90 Mbps | 61.163 TB | Cam1 - 12 |

NOTE: The testing scenario is based on multipurpose testing criteria(CPU utilization < 70%)

NOTE: The statistics result in System Video Throughput were produced running Milestone XProtect Corporate 2013 on a Vess A2000 series with fully populated storage enclosures and 8GB memory. Video settings used were H.264 and High Video Quality compression

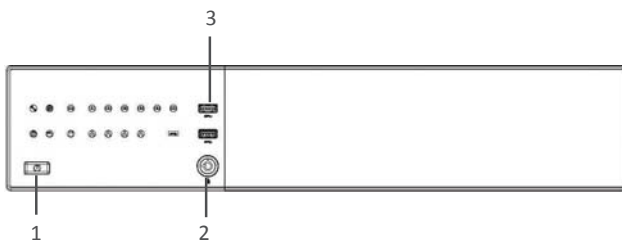


Vess A2200/2600 Front and Back Panels

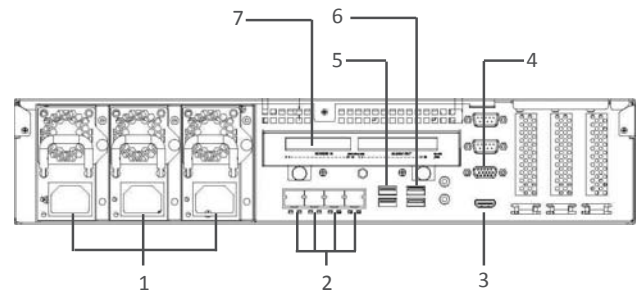


Vess A2200/2600 Front and Back Panels

Vess A2200

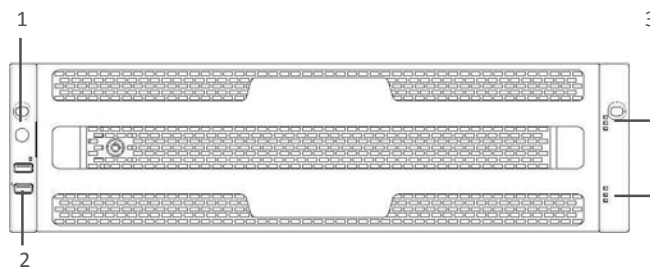


| # | Icon | Item | Description |
|---|------|-------------------|---|
| 1 | | Power Button | Turns the device on and off |
| 2 | | Secure Panel Lock | Provides security for installed hard disks & cooling unit |
| 3 | | 2x USB 3.0 Ports | Compatible with USB 3.0 and earlier devices |

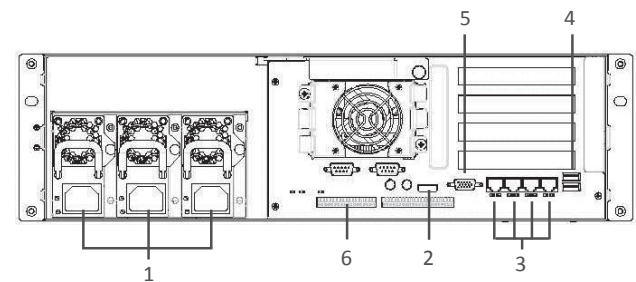


| # | Icon | Item | Description |
|---|------|-------------------|---|
| 1 | | Redundant Power | 3 N+1 power supplies |
| 2 | | 4x Ethernet Ports | For connection to an Ethernet network |
| 3 | | HDMI Port | Connects to HDMI monitor |
| 4 | | VGA Port | Connects to VGA monitor |
| 5 | | 2x USB 3.0 Ports | Compatible with USB 3.0 and earlier devices |
| 6 | | 2x USB 2.0 Ports | Connects to USB devices |
| 7 | | IO Terminal Ports | Sensor Input/Alarm Output |

Vess A2600



| # | Icon | Item | Description |
|---|------|---------------------|-------------------------------------|
| 1 | | Power Button | Turns the device on and off |
| 2 | | 2 USB 2.0 Ports | Connects to USB devices |
| 3 | | Power & Status LEDs | Indicates drive status and activity |



| # | Icon | Item | Description |
|---|------|-------------------|---------------------------------------|
| 1 | | Redundant Power | 3 N+1 power supplies |
| 2 | | HDMI Port | Connects to HDMI monitor |
| 3 | | 4x Ethernet Ports | For connection to an Ethernet network |
| 4 | | 2 USB 2.0 Ports | Connects to USB devices |
| 5 | | VGA Port | Connects to VGA monitor |
| 6 | | IO Terminal Ports | Sensor Input/Alarm Output |

*Note: The Vess A2600 is shown with the front bezel attached

Technical Specifications

| | Vess A2200 | Vess A2600 |
|----------------------------------|--|---|
| General Information | | |
| Camera Range ² | 32-64 | 64-128 |
| Form Factor | 2U, 19" Rackmount | 3U, 19" Rackmount |
| Number Of Drives | 6 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® Core™ i3 Dual-core 4-thread | Intel® Xeon® E3 Quad-core 8-thread |
| System Memory | 8GB Default (Max 16GB) | 8GB Default (Max 16GB) |
| I/O Interface | 4x Gigabit Ethernet | |
| Storage Expansion | Optional Vess iSCSI Storage | |
| Max # of HDDs Supported | Up to 118 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 2.0 |
| PCI Express Ports | 1x 16-lane Gen 2.0 PCIe, 2x 8-lane Gen 2.0 PCIe | 1x 16-lane Gen 2.0 PCIe, 3x 8-lane Gen 2.0 PCIe |
| Graphics | D-sub VGA and HDMI | |
| Serial Interfaces | 2x RS-232C (D-sub 9-pin) | |
| Audio & Microphone | 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 Feature | | |
| RAID Levels | 0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50 Any combination can exist at the same time | 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 | |
| Software | | |
| Preloaded OS (64-bit) | Windows Embedded Standard 7 Runtime (WS7P), Windows Server 2012 R2 Standard or Linux | |
| Management Tools | Graphical UI/SNMP via Ethernet, CLI/CLU via Ethernet or Graphics, OPAS Service via USB, SDK or API for Integration | |
| Appliance Mode | Surveillance Optimization @ Arrays in Normal and Degraded | |
| Event Notification | Email, SNMP, Buzzer, LEDs | |
| System Information | | |
| AC Input | 100 ~ 240 VAC, 60 ~ 50Hz | |
| Current (Maximum) | 4A (100V); 2A (240V) | |
| Power Supply | Three redundant 250W, Energy-efficient 80PLUS Certified, 90-264V full-ranging w/PFC, Hot swappable N+1 Design | |
| BTU | 1288 BTU/hr | 1729 BTU/hr |
| Fan | Hot swappable design | |
| 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) | 130.1 x 446.2 x 461 mm (5.1 x 17.6 x 18.1 in) |
| Weight | 10.4kg(22.9 lbs) w/o drives, 14.9kg (32.8lbs) w/drives | 15.9kg(35.1 lbs) w/o drives, 27.9kg (61.5lbs) w/drives |
| Safety/EMI | CE, FCC Class A, BSMI, CB, KC, UL/cUL, CCC | |

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