



Simple,  
Powerful and  
Optimised for video



# VA824 VideoAppliance

## Features

### PREDICTABLE PERFORMANCE

A powerful appliance with a finely-tuned OS, designed for video processing and recording. Award-winning technologies include VSOP Video Stream Optimisation delivering smooth video recording and playback. This eliminates disk fragmentation and the resulting frame loss for continuous write performance.

### OPEN PLATFORM

All major OS and Video Management Software can be easily integrated and pre-loaded, having been pre-tested and qualified.

### CHOOSE YOUR SOFTWARE

Your preferred video analytics software can be pre-loaded and ready to run at installation. These include facial recognition, abnormal behaviour detection, suspect tracking, mobile information and incident management, cybersecurity and more, to further empower your solution.

### PERFORMANCE MONITORING

Manage and track video assets for one or more sites and receive actionable information about the video network infrastructure. Continuous diagnostics including alerts, advisories, and daily status reports of server, storage, switches, camera and infrastructure disruptions help prevent issues and ensure maximum uptime.

- Ultra-high performance with onboard software analytics
- Fully scalable and supports a large number of high definition cameras
- Maintains image quality without frame loss
- Award-winning technologies

### Simply Smarter

The VideoAppliance VA824 rackmount integrates VMS (Video Management Software) and storage into a simple to use, ultra-high performance video surveillance storage server solution. This eliminates the cost of a separate VMS server, significantly reduces cabling and the complexity of integrating VMS, OS, commodity server and storage, while significantly lowering the total cost of ownership.

### Tested & Certified

The Intrinsa Technology Labs continually test and certify cameras, VMS systems, NVRs and other applications for use with Intrinsa products for physical security's real-world demanding requirements. This allows for risk-free integration, without the complications of products that are not designed for physical security.

### Faster & More Powerful

The VA824 combines dual high-performance Intel® Xeon® E5-2603 v4 six-core processors with up to 1.7G GHz clock speed and 16GB DDR4 2400 MHz ECC memory. Its high bandwidth connectivity and unmatched LAN connectivity with 5 GbE ports (and an option of 10 GbE), gives it the speed and responsiveness for the unique performance requirements of video surveillance infrastructure.

### Fully Protected

We provide advanced RAID technologies which eliminate disk drive failure - the number one cause of lost video and downtime. Disk drives are hot swappable without interruption in service or loss of data. The second most common failure is power supplies. The VA824 eliminates this by providing dual redundant power supplies. The VA824 only uses ECC RAM and video being stored and transferred within the system is fully protected.

### Flexible & Scalable

Choose from versions with up to 160 TB of storage and two SSD drives for the OS in RAID 1 configuration. The VA824 combines storage capacity with exceptional performance to deliver simple, reliable video storage to suit your needs. Expand the VA824 with Expander series or with the ST350, allowing capacity to grow by an additional 480TB.

## Features

## Specifications

### SURVEILLANCE DRIVES

Surveillance drives are designed for video storage to deliver reliable 24x7 operation — optimised for low power consumption, quiet operation, smooth video streaming, enterprise-class reliability and high capacity. Ensuring highest performance, and significant cost savings.

### QUICK TO INSTALL

The VA824 can be installed in just a few minutes as all the integration work and testing has already been done. It just needs to be plugged in and configured to your project needs.

### Intransa Systems Inc.

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### Core Technology

CPU Type	Dual Intel® Xeon E5-2603 v4 Broadwell 1.7 GHz
Socket	2 x Socket 2011-3
Core Logic	Intel® C612 Chipset
Benchmark/Clock speed	8807 / 1.7GHz
Memory size	16GB (2x8GB)
Memory type	DDR4 2400 ECC
Video Storage Performance	Up to 200 Mbps / 25MBs

### Expansion

Expansion Slot	5 (Low Profile)
Slot Type	3 x PCI-E 3.0 x 16 2 x PCI-E 3.0 x 8

### Storage

HDD Bays	24x Hot-swap 3.5" and 2x 2.5"
Drive support	4, 6, 8 & 10TB SATA III Video Class / 120 SSD
RAID levels	0, 1, 5 and 6

### Ethernet

Data	4 x GbE (Intel® i210) Optional 2x 10GbE Intel® X540
Management	1 x GbE (Intel® i210)

### Video

Onboard Graphic	ASPEED AST2400
Optional HD Graphic	HD 7750 1 GB DDR3

### On Board I/O

	2 x USB 3.0 (front) and 2 x USB 3.0 (rear) 1 x D-Sub (1x rear) 1 x Serial Port (rear)
With Optional HD Graphic	2 x HDMI, 1 x MDP (w/ 1x HDMI to DVI Adp. & 1 MDP to D-Sub Adp.)
Management Solution	Remote IPMI support

### Compliance

Safety	US/Canada (UL1950-CSA950) Europe (CE, EN55022 compliance to EU Directive 89/366/EEC & TUV)
EMI	US (FCC, CFR47 Part 15, Class A) Europe (CE, EN55022 class A & EN55024)

### Physical Characteristics

Server dimensions (in./mm)	24" x 19" x 7" / 625 x 482.6 x 177 mm
Server weight	77.5lbs / 35.1kg
Shipping weight	83.5lbs / 37.9kg
Box dimensions	33" x 24.1" x 12.7" / 837 x 612 x 322 mm

### Power

Voltage	Dual redundant 1+1
Watts	100 - 240 VAC 875 W 80 PLUS

### Operating Environment

Operation temperature	Designed for 24x7x365 Operation 10°C to 35°C
Non-operation temperature	-40°C to 70°C
Humidity	20% to 90% (non-condensing)
Operating altitude	0 to 10,000ft / 0 to 3000m

