



## ApplianceStor 180R

### High-Performance Video Surveillance Appliance

High-Density VMS Storage Server with four high-performance Xeon E5 CPU server modules and dual power supply is ideally suited for large video surveillance locations with up to 128 Megapixel cameras per blade (with PS5000) \*

## Features

### Optimized

Designed and optimized for the video surveillance market. It delivers the performance required for the most demanding megapixel installations.

### Open

Purpose-built open platform to integrate Video Management Software. All major supported OS and VMS providers are prequalified. More are continually added to ensure the widest possible certification coverage.

### SSD Drives

Designed for 24/7/365 operation. SSD drive technology is used to provide the performance and reliability needed for the most demanding video surveillance deployments. The operating system is installed on the drives.

### Manageable

Easy to manage with remote management. Web-based, GUI-driven iKVM provides full control of server functions with dedicated hotkeys and remote server screen. Virtual media-over-LAN helps share local devices with target servers, enabling fast troubleshooting.

### High-Density Performance

The ApplianceStor 180R is a modular server system with four high performance server modules in a single 2U rack mount platform providing unmatched performance and density. Each module can be used for VMS (Video Management Software) integration, failover, archiving, administration, and access control. The AS180R is used with the PS5000 to provide a simple to use, high performance, high capacity video surveillance storage and server solution significantly reducing the cost compared to a separate VMS server. The AS180R is prequalified and provides guaranteed performance with all major VMS solutions.

### Powerful

The AS180R packs four powerful server modules into one single 2U system. Each module is built around a high-performance Intel Broadwell Xeon® Scalable E5-2603v4 hex-core server class processor with 1.7 GHz clock speeds and DDR4 1866MHz ECC memory. The AS180R has LAN connectivity with three GbE ports and an additional port dedicated to management. Optionally, the data LAN ports can be increased to six GbE ports per blade. The AS180R offers high performance and bandwidth connectivity to meet the requirements of the most demanding megapixel camera applications.

### Reliable

The AS180R features dual, redundant power supplies. It uses ECC RAM guaranteeing that video being stored, read, and transferred is always correct. It uses a parity bit for data protection. Most NVRs and DVRs are not protected to this level and crucial video can be lost.

### Right Size

The AS180R is designed for large megapixel deployments and perfectly matched with the high capacity, high-performance PS5000 IP Storage System. Storage capacity of the AS180R, when used with PS5000, can scale up to 4.3PB. The AS180R provides unmatched performance density to ensure optimal, cost effective, and dependable video storage.

\* Maximum camera support is per blade, calculated using 2MP HD cameras using H.264 at 15fps.

## More Features

### Powerful Compact Design

Packs four high-performance enterprise class servers into a single 2U rack mountable chassis. It offers market leading density and performance to deliver a unique, compact video surveillance solution.

### Expandable

AS180R includes an expansion slot so additional RAM can be added (up to 64GB).

### Easy

AS180R delivers effortless installation, management, and administration. All administration functions assume technicians have little to no storage knowledge. Once racked, setup takes 15 minutes or less.

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## Specifications

<b>Core Technology</b>	
CPU	Single Intel Xeon® E5-2603 v4 Broadwell (1.7GHz)
Socket	LGA2011-3
Core Logic	Intel® C621 PCH Chipset
Bench Mark/Clock speed	5,473 / 1.7 GHz
Memory size	8GB per blade (expandable up to 64GB per blade)
Memory type	DDR4 1866 ECC RDIMM
<b>Expansion</b>	
Expansion Slots	1
Slot Type	1 x PCI-e x16 (Gen3 x16 Link) (Low profile/HL)
<b>System Storage</b>	
HDD Bays	12 x Hot-swap 3.5" (3 HDD per module)
Drive support	120, 240, 480, 960 GB SSD
RAID	5
<b>Networking</b>	
Data Ports	3 x GbE Intel® / blade (third port is for WAN only)
Optional data ports increase	4x GbE or 6xGbE / blade
Management Port	1 x GbE /blade
<b>Display Outputs</b>	
On board graphics	Aspeed AST2400 with 32MB VRAM
<b>I/O Ports</b>	
	2 x USB 3.0 ports
	1 x VGA port
<b>Management Solution</b>	
	Remote KVM-ikVM for KVM-over-IP support
	ASWM Enterprise
<b>Compliance</b>	
Safety	US/Canada (UL1950-CSA950)
	Europe (CE, EN55022 compliance to EU Directive 89/366/EEC)
	Europe (TUV)
EMI	US (FCC, CFR47 Part 15, Class A)
	Europe (CE, EN55022 & EN55024)
	Australia (C-TICK)
	Taiwan (BSMI)
<b>Physical Characteristics</b>	
Dimensions (in/mm)	28.7" x 17.3" x 3.4" 729 x 439.4 x 87
Weight	63.9lbs./29Kg
<b>Power</b>	
	Dual redundant 1+1
Voltage	110/220V AC
Watts	1 + 1 Redundant 1620W 80Plus Platinum.
	1000W: 100-120Vac, 12-10A, 50-60Hz 1200W: 100-140Vac, 12-10A, 50-60Hz 1620W: 180-240Vac, 10.5-8A, 50-60Hz
<b>Operating Environment</b>	
Operation temperature	10°C ~ 35°C
Non-operation temperature	-40°C ~ 70°C
Humidity	20% ~ 90% (Non-condensing)
Operating altitude	0 to 10,000'/0 to 3000m

