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ApplianceStor 90R
High-Performance Video Surveillance Appliance

Mid-level VMS Storage Server with data protection, dual power supply and optional Viewing capability is ideally suited for medium video surveillance locations with up to 256 megapixel cameras (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.

Video Class
Video class drives are designed for video storage to deliver reliable 24×7 operation and optimized for power consumption, quiet operation, and video streaming while having high reliability and capacity. This ensures the highest video storage performance, enterprise-class reliability and availability in an efficient solution.

Viewing and Monitoring
The AS90R ships standard with HD graphics, delivering HD viewing capability while eliminating the complexity and cost of a separate video viewing and monitoring server.

Simple
The ApplianceStor 90 Rack mount storage server integrates VMS (Video Management Software) and storage into a simple to use, high-performance video surveillance storage server solution. This eliminates the cost of a separate VMS server, significantly reducing cabling as well as the nightmare of integrating VMS, OS, commodity server and storage. We guarantee performance with all major VMS solutions prequalified on the AS90R. It is easy to install and maintain.

Powerful
The AS90R is a powerful server and storage system, built around the new, high performance Intel® Skylake Xeon® E3-1230v5 quad-core server class processor with up to 3.8GHz clock speed and fast 2400 MHz DDR4 memory. The AS90R offers high performance and bandwidth connectivity to meet the requirements of the most demanding megapixel camera applications. The AS90R has unmatched LAN connectivity with four GbE ports and an additional port that can be dedicated to management for a total of five GbE LAN ports. With these standard features, the AS90R has the performance and reliability for the most demanding deployments.

Reliable
Disk drive failure is the number one cause of lost video storage and downtime. Advanced RAID 5 technologies eliminate the loss of video due to a disk failure. Disk drives are hot swappable without interruption in service or loss of data. The AS90R only uses ECC RAM and it guarantees that video being stored, read, and moved within is always correct. It uses a parity bit to accomplish the data protection. Most NVRs and DVRs are not protected to this level and crucial video can be lost. The AS90R gives peace of mind that the video is always reliably being stored.

Right Size
Designed for medium megapixel deployments. The AS90R is offered in 48, 72, 96, 120, 144, and 168TB versions with 2x240SSD OS storage in RAID 1. The AS90R matches the perfect storage capacity with exceptional performance to ensure optimal, cost-effective and dependable video storage. If future expansion is required, the AS90R can be used in conjunction with the PS5000, allowing capacity to grow up to 1.2 PB.

* Maximum camera supported is calculated using 2MP HD cameras using H.264 at 15fps. 128 cameras without PS5000 and 256 cameras maximum with PS5000.

More Features

Upgradable
The AS90R provides an expansion slot for future upgrades. The PCI-E slot supports three low profile cards. Additional RAM can be added, allowing up to 32GB RAM to be used.

Easy
The AS90R delivers effortless installation, management, and administration. All administration functions assume technicians have basic to no storage knowledge. Once installed in a rack, setup takes 15 minutes or less

Hot-swappable
The AS90R features 12 3.5" hot-swappable SATA drives and power supplies for easy installation and maintenance.

Manageable
Very easy to manage with optional remote management. Web-based, GUI-driven iKVM upgrade kit 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.

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Specifications

Core Technology	
CPU Type	Intel Skylake Xeon® E3-1230v5
Socket	LGA1151
Core Logic	Intel® C232 Chipset
Bench Mark/Clock speed	9553/3.4 GHz
Memory size	8GB (expandable up to 32GB)
Memory type	DDR4 2400 ECC UDIMM
Video Storage Performance	Up to240Mbps / 30MBps internal and 720Mbps / 90MBps with PS5000
Expansion	
Expansion Slot	3
Slot Type	1x PCI-E x16 (Gen3 x16 Link), Auto switch to x8 link if other slot is occupied
	1 x PCI-E x8 (Gen3 x8 link)
	1x PCI 32/33MHz
Storage	
HDD Bays	12 x Hot-swap 3.5"
Drive support	4, 6, 8, 10, 12 & 14TB SATA III Video Class
	2x 240GB SSD (hot swappable)
RAID levels	5, 6, and 10 (default RAID 5)
Networking	
Data Ports	4 x GbE (Intel® I210AT)
Management Port	1 x GbE
Display Outputs	4
Onboard graphics	ASPEED AST2400 with 16MB VRAM
Standard HD Graphic	HD 7750 1 GB DDR3 mDP, 2x HDMI (DVI and VGA via adapters)
Standard Graphic performance	1631
Max Supported Resolution	DVI - 1920x1200 @ 60Hz
	HDMI - 4096x2160 @ 24Hz
	mDP - 4096x2160 @ 60 Hz
I/O Ports	
	2 xUSB 3.0 (rear), 2xUSB 2.0 (rear), 1xUSB3.0 (front)
	1 x VGA (rear)
	1 x Serial Port (rear), PS2 Keyboard/Mouse
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)
	Australia (C-TICK), Taiwan (BSMI)
Physical Characteristics	
Dimensions (in./mm)	25.4" x 19" x 3.5" / 645 x 483 x 88 (with ears)
Weight	66lbs./30Kg
Power	Dual redundant 1+1
Voltage	100 - 240 V_{AC}
Watts	800 W 80 PLUS
Operating Environment	Designed for 24x7x365 Operation
Operation temperature	10℃ ~ 35℃
Non-operation temperature	-40℃ ~ 70℃
Humidity:	20% ~ 90% (Non-condensing)
Operating altitude	0 to 10,000'/0 to 3000m