



ApplianceStor 70R

High-Performance Video Surveillance Appliance

Mid-level VMS Storage Server with data protection, dual power supply, optional Viewing capability and is ideally suited for small to medium video surveillance locations with up to 128 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 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 24x7 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 AS70R 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 70 Rack mount 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. Performance is guaranteed with all major VMS solutions prequalified on the AS70R. It is easy to install and maintain.

Powerful

The AS70R 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 AS70R offers high performance and bandwidth connectivity to meet the requirements of the most demanding megapixel camera applications. The AS70R has unmatched LAN connectivity with four GbE ports and an additional port that is dedicated to management for a total of five GbE ports. With these standard features, the AS70R 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 are offered which eliminates the loss of video due to a disk failure. Disk drives are hot swappable without interruption in service or loss of data. The AS70R 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 with these products crucial video can be lost. The AS70R gives peace of mind that the video is always reliably being stored.

Right Size

The AS70R is designed for smaller megapixel deployments. It is offered in 16, 24, 32, 40, 48 and 56TB versions with standard 2x240GB SSD OS drives in RAID 1. The AS70R matches the perfect storage capacity with exceptional performance to ensure optimal, cost-effective, and dependable video storage. If expansion is required, the AS70R can be used in conjunction with the PS5000 allowing capacity to grow up to 1512TB.

* Maximum camera support is calculated using 2MP HD cameras using H.264 at 15fps. 64 cameras without PS5000 and 128 cameras maximum with PS5000.

More Features

Expandable

The AS70R provides an expansion slot for future expansion. The PCI-E slot supports full-height/half-length cards. Additional RAM can be added, allowing up to 64GB RAM to be used

Easy

The AS70R delivers effortless installation, management, and administration. All administration functions assume technicians have basic to no storage knowledge. Once racked, setup takes 15 minutes or less

Hot-swappable

The AS70R features four 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.

For More Information Contact:

Rasiliant Systems, Inc.
3281 Kifer Road
Santa Clara, CA 95051
Tel: +1 (408) 730-2568
Toll Free +1 (888) 902-8981

General Information: info@rasilient.com

Sales: Sales@rasilient.com

Technical Support:

techsupport@rasilient.com

Website: www.rasilient.com

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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	9540/3.4 GHz
Memory size	8GB (expandable up to 64GB)
Memory type	DDR4 2400 ECC UDIMM
Video Storage Performance	Up to 120Mbps 15MBps internal and 720Mbps 90MBps with PS5000
Expansion	
Expansion Slot:	2
Slot Type:	1xPCI-E x16 (Gen3 x8 link) (Full-Height/HL)
	1xPCI-E x8 (Gen3 x4 link) (Full-Height/HL)
Storage	
HDD Bays	4 x Hot-swap 3.5"
Drive support	4, 6, 8, 10, 12 and 14TB SATA III Video Class
	2 x 240 GB SSD
RAID	5, 10
Removable Storage	1x Slim-type Optical DVD-RW
Networking	
Data Ports	4 x GbE (Intel® I210AT)
Management Port	1 x GbE
Display Outputs	
Standard HD Graphics	HD 7750 1 GB DDR3 mDP, 2x HDMI (DVI and VGA via adapters). Not for Viewing
Graphics performance	1631
Max Supported Resolution	DVI - 1920x1200 @ 60Hz HDMI - 4096x2160 @ 24Hz mDP - 4096x2160 @ 60 Hz
I/O Ports	
	1 x External Serial Port
	4 x USB 3.0 ports (Front x 2, Rear x 2)
	2 x USB 2.0 ports (Rear)
	2 x VGA port (1x front and 1x rear) (disabled with graphics card)
	1 x PS/2 combined keyboard & mouse port
Management Solution	
	Remote KVM-iKVM for KVM-over-IP support
	ASWM Enterprise
Compliance	
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 class A & EN55024) Australia (C-TICK), Taiwan (BSMI)
Physical Characteristics	
Dimensions (in./mm)	24.2" x 17.5" x 1.7" 615 x 444 x 43.4
Weight	35.3lbs./16Kg
Power	
	Dual redundant 1+1
Voltage	110/220V AC
Watts	450 80PLUS Gold
Operating Environment	
	Designed for 24x7x365 Operation
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