



ApplianceStor AS63T

Video Viewing and Administrative Appliance
User Manual



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Contents

About This Manual	2
Conventions.....	2
Safety Symbols.....	3
Safety Precautions.....	4
Regulatory and Integration Information.....	6
Regulatory Compliance Identification Numbers	6
Product Regulatory Compliance	6
Power Cords	8
1 Introduction	1-1
1.1 Audience Assumptions	1-1
1.2 About this Guide	1-1
1.3 Packing Checklist	1-1
1.4 Specifications.....	1-2
1.5 System Overview.....	1-3
1.6 Powerful	1-4
1.7 Complete solution	1-5
1.8 SSD Drives	1-5
1.9 Optimized.....	1-5
1.10 System Specification	1-6
2 Component Identification;	2-8
2.1 Motherboard rear I/O	2-8
2.2 Front I/O.....	2-9
2.3 Power Supply.....	2-10
2.4 Graphics I/Os.....	2-10

List of Figures

Figure 1-1: AS63	1-4
Figure 2-1:AS63 Motherboard Rear I/O	2-8
Figure 2-2: AS63 Front I/O.....	2-9

List of Tables

Table i	European Union Safety Requirements.....	7
Table 1-1	Introduction of the Manual.....	1-1
Table 1-2	Packing Checklist.....	1-1
Table 1-3	Specifications	1-2

About This Manual

Conventions

Safety Symbols

Safety Precautions

Regulatory and Integration Information

About This Manual

Conventions

To make sure that you perform certain tasks properly, take note of the following symbols used throughout this manual.



Warning: Provides Information to prevent injury in the process of completing a task.



Caution: Provides Information to prevent damage to the components in the process of completing a task.



Important: Provides Information required for completing a task.



Note: Provides Tips to aid in completing a task.

Safety Symbols

The following symbols are placed on some components of the system to alert the user to potential hazards,



WARNING: Electric Shock Hazard – To reduce risk of injury from electric shock hazards, do not open this component.



WARNING: Contains No User or Field Serviceable Parts – To reduce the risk of injury from electric shock hazards, do not open this component.



WARNING: Hot Surface or Component - To reduce risk of injury from a hot component; allow the surface to cool before touching.



WARNING: Insert Network Interface Only - Any receptacle (e.g. RJ45) marked with this symbol indicates a network interface connection. To reduce the risk of electric shock, fire or damage to equipment, do not plug telephone or telecommunications connectors into this receptacle



WARNING: This symbol, on power supplies or systems, indicates that the equipment is supplied by multiple sources of power. To reduce the risk of injury from electric shock, remove all power cords to completely power down the system.



Weight in kg

Weight in lb

WARNING: This symbol indicates that the component exceeds the recommended weight for one individual to handle safely. To reduce the risk of personal injury or damage to the equipment, observe local occupational health and safety requirements and guidelines for manual material handling.

Safety Precautions



Technician Notes

- Only authorized technicians should attempt to repair this equipment.
- Before installing this system, carefully read all the manuals included with the system.
- All repair procedures allow only module replacement. Because of the complexity of the individual boards and sub-assemblies, no one should attempt to make repairs at the component level or make modifications to any printed wiring board. Improper repairs can create a safety hazard.
- To reduce the risk of personal injury from electric shock and hazardous energy levels, do not exceed the level of repairs specified in these procedures.
- The system is designed to be electrically grounded. To ensure proper operation, plug the AC power cord into a properly grounded AC outlet only.



Electrostatic Discharge Precautions

- Electrostatic discharge (ESD) can damage static sensitive devices or micro circuitry. Proper packaging and grounding techniques are required to prevent damage.
- Keep electrostatic-sensitive parts in their containers until they arrive at a static free work area.
- Use a wrist strap connected to the work surface as well as properly grounded tools and equipment
- Keep the area free of nonconductive materials such as ordinary plastic tools and foam packing.
- Avoid touching pins, leads, or circuitry.
- Always place drives with printed circuit board (PCB) assembly-side down.
- Grasp cards and boards by the edges. Hold drives by the frame. Avoid touching the solder joints or pins.
- If you need to lay the device down while it is out of the antistatic bag, lay it on the antistatic bag. Before picking it up again, touch the antistatic bag and the metal frame of the system unit at the same time.



System Warnings

- Avoid dust, humidity, and extreme temperatures; place the system on a stable surface.
- To reduce the risk of personal injury from hot surfaces, allow the hot-plug disk modules and other system modules to cool before touching them.

- To reduce the risk of electric shock or damage to the equipment, do not disable the power cord grounding plug. The grounding plug is an important safety feature.
- Ensure the power cord is inserted into a grounded electrical outlet that is easily accessible at all times. Unplug the power cord from the power supply module to shut off power to the equipment
- Protect the storage system from power fluctuations and temporary power interruptions with a regulating uninterruptible power supply (UPS). This device protects the hardware from damage caused by power surges and voltage spikes and keeps the system operational during a power failure.
- The storage system must always be operated with all hot plug modules installed or slot covers in place to ensure proper cooling.
- Route power cords so that they will not be walked on or pinched by items placed upon or against them. Pay particular attention to the plug, electrical outlet, and the point where the cords exit from the product.

Regulatory and Integration Information

Regulatory Compliance Identification Numbers

For the purpose of regulatory compliance certifications and identification, this system is assigned a serial number. This system serial number can be found on the product label, along with the required approval markings and information. When requesting certification information for this product, always refer to this serial number. This serial number should not be confused with the marketing name or model number.

Product Regulatory Compliance

Product Safety Compliance

Worldwide Safety approvals can be supplied upon request. Please contact your sales representative for approvals.

Product EMC Compliance

This product has been assembled from components that comply with the following electromagnetic compatibility (EMC) regulations.

Communications Commission Notice

Part 15 of the Federal Communications Commission (FCC) Rules and Regulations has established Radio Frequency (RF) emission limits to provide an interference-free radio frequency spectrum. Many electronic devices, including computers, generate RF energy incidental to their intended function and are, therefore, covered by these rules. These rules place computers and related peripheral devices into two classes, A and B, depending upon their intended installation. Class A devices are those that may reasonably be expected to be installed in a business or commercial environment. Class B devices are those that may reasonably be expected to be installed in a residential environment (for example, personal computers). The FCC requires devices in both classes to bear a label indicating the interference potential of the device, as well as additional operating instructions for the user.

The rating label on the device shows which class (A or B) the equipment falls into. Class A devices do not have an FCC logo or FCC ID on the label. Class B devices have an FCC logo or FCC ID on the label. Once the class of the device is determined, refer to the following corresponding statement.

Class A Equipment

This equipment has been assembled with components that comply with the limits for a Class A

digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at personal expense.

Declaration of Conformity for Products Marked with the FCC Logo—United States Only

This device complies with Part 15 of the FCC Rules Operation and is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. For questions regarding your product, please contact your sales representative. To identify this product, refer to the Part, Series, or Model number found on the product.

European Union Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low-Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms (items in brackets are the equivalent international standards):

Table i European Union Safety Requirements

EN55022 (CISPR 22)	Electromagnetic Interference
EN55024 (IEC61000-4-2,3,4,5,6,8,11)	Electromagnetic Immunity
EN61000-3-2 (IEC61000-3-2)	Power Line Harmonics
EN61000-3-3 (IEC61000-3-3)	Power Line Flicker
EN60950 (IEC950)	Product Safety

Power Cords

The power cord set included in the system meets the requirements for use in the country where the system was purchased. If this system is to be used in another country, contact your sales representative to purchase a power cord that is approved for use in that country.

The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product. In addition, the cross-sectional area of the wires must be a minimum of 1.00mm² or 18AWG, and the length of the cords must be between 1.8m (6 feet) and 3.6m (12 feet). If you have questions about the type of power cord to use, contact your sales representative.

Chapter 1

Introduction

Audience Assumptions

About This Guide

Packing Checklist

Specifications

System Overview

1 Introduction

1.1 Audience Assumptions

This manual assumes that you are a service technician or network administrator familiar with computer hardware, data storage and network administration terminology and tasks.

1.2 About this Guide

AS63 comes with appropriate hardware installed. User only needs to configure IP addresses, install appropriate VMS software to administer and view the cameras. This manual is generally organized as follows:

Table 1-1 Introduction of the Manual

Introduction	General introduction to the AS63 and its components.
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1.3 Packing Checklist

Make sure you have all the components shipped with your system. If any item is damaged or missing, please contact your sales representative for replacement. The AS63 is shipped with the following:

Table 1-2 Packing Checklist

Chassis	Mid Tower Enclosure
Graphics Adapter	One or two Video Graphics Adapters depending on the configuration
Power Cords	One Power Cord

1.4 Specifications

The table below is the technical specification for the AS63.

Table 1-3 Specifications

Dimensions	Height: 16.7" / 425mm Width: 7.8" / 198mm Depth: 19.1" / 485mm
Weight	Max-weight: 25 lbs / 11.3 kg \pm 5%
Temperature	Operating System: +10°C~+35°C Non-operating System: -40°C~+70°C
Humidity	Operating System: 20%~80% Non-operating System: 10%~95%
Power	➤ 100--240Vac input, 50/60Hz ➤ 600 watts
Current	➤ Typical - 5/2.5A max 8.6A

1.5 System Overview

The ApplianceStor 63 Tower Video Viewing Appliance offers a high performance standalone video viewing, monitoring and administration appliance that is cost effective. It supports monitors with 8K resolution and 3D display. It offers standard HDMI, Display Port, VGA and DVI video ports (three usable). Optional support for up to two DisplayPorts, two DVI and six HDMI for total of up to eleven high resolution HD monitors for complete and cost effective surveillance viewing and administration. The AS63T is the proven high performance video surveillance view and administration solution.

The AS63T video viewing appliance comes in a tower chassis ideally suited for security operations centers (SOCs). Installation and setup is a breeze. The server comes custom built and configured with a complete product test. Most popular VMS client viewing software can also be preinstalled on request. This allows the AS63T to be up and running in less than 15 minutes after it is unpacked from the box. The AS63T Video Viewing Appliance is the ultimate viewing center appliance specifically designed for mission-critical video surveillance.



Figure 1-1: AS63

1.6 Powerful

The AS63T is a high performance server appliance, built around Intel® Xeon E3-1245 v5 quad-core eight thread server class processors with up to 3.9GHz clock speed and 8GB of 2133 MHz DDR4 ECC memory. The AS63T offers high performance and bandwidth connectivity to meet the requirements of the most demanding megapixel camera viewing and administration SOC environments. The AS63T comes standard with two GbE ports for LAN connectivity.

1.7 Complete solution

Raslient provides a complete physical security solution. We offer all necessary components, including high performance recording, viewing/monitoring and administration servers, and our high performance storage products for a complete solution. We provide the right solutions for small to the large video surveillance deployments. There is no longer a need to worry if your VMS and cameras will work on your storage server. We prequalify and certify most major VMS software for our solutions.

1.8 SSD Drives

SSD drives are designed to deliver reliable 24x7 operation and optimized for power consumption, quiet operation, and video. This ensures the highest video storage performance, with enterprise-class reliability and a significant system cost savings.

1.9 Optimized

The AS63T is optimized for the video surveillance market. It has the performance and capacity required for the most demanding surveillance monitoring installations

1.10 System Specification

Core Technology	
CPU Type	Intel Skylake Xeon E3-1245v5 3.5GHz
Socket	LGA1151
Core Logic	Intel® 236 Chipset
Bench Mark/Clock speed	10291/3.50GHz
Memory size	8GB
Memory type	DDR4 2133 ECC DIMM
Expansion	
Expansion Slot :	4
Slot Type:	1 x PCIe 3.0/2.0 x16 (x16/x8) 1 x PCIe 3.0/2.0 x16 (x8 mode) (switched from x16) 1 x PCIe 3.0/2.0 x16 (x4 mode) 1 x PCIe 3.0/2.0 x16 (x4 mode)
Storage	
Drive support	240GB SSD
Removable Storage	1 x Optical DVD-RW
Networking	
Data Ports	2 x GbE
Display Outputs	Up to 11 total HD ports
Onboard graphics	Intel® HD Graphics 530, 1xDVI, 2xHDMI
Onboard graphics performance	985
Optional HD Graphics Cards (x2)	GeForce GTX 1050 4GB up to 8 ports (2xDVI-D, 6x HDMI & 2xDP)
Opt Graphic performance	6300
	Up to 11 HD total ports
Maximum supported resolution	4096 x 2160(HDMI, DVI), 7680x4320 (Display Port),
I/O Ports	6 x USB 3.0 ports (2 front and 4 rear)
	2 x USB 3.1 port(s) (rear, Type-A + Type-C)
	1 x DVI, DP, VGA and HDMI ports (3 usable)
	1 x PS/2 combo mouse port & keyboard port
Compliance PSU	
Safety	US/Canada (UL1950-CSA950)

	Europe (CE, EN55022 compliance to EU Directive 89/366/EEC)
EMI	US (FCC, CFR47 Part 15, Class A)
	Europe (CE, EN55022 & EN55024)
Physical Characteristics	
Dimensions (in /mm)	7.8" x 16.7" x 19.1" 198(W) x 425(H) x 485(D)
Weight	25lbs./11.3
Power	Single
Voltage	110/220V AC
Watts	Up to 600
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

Chapter 2

AS63 Component Identification

2 Component Identification;

2.1 Motherboard rear I/O

Following diagram shows the location of all the rear I/O modules on AS63 motherboard.

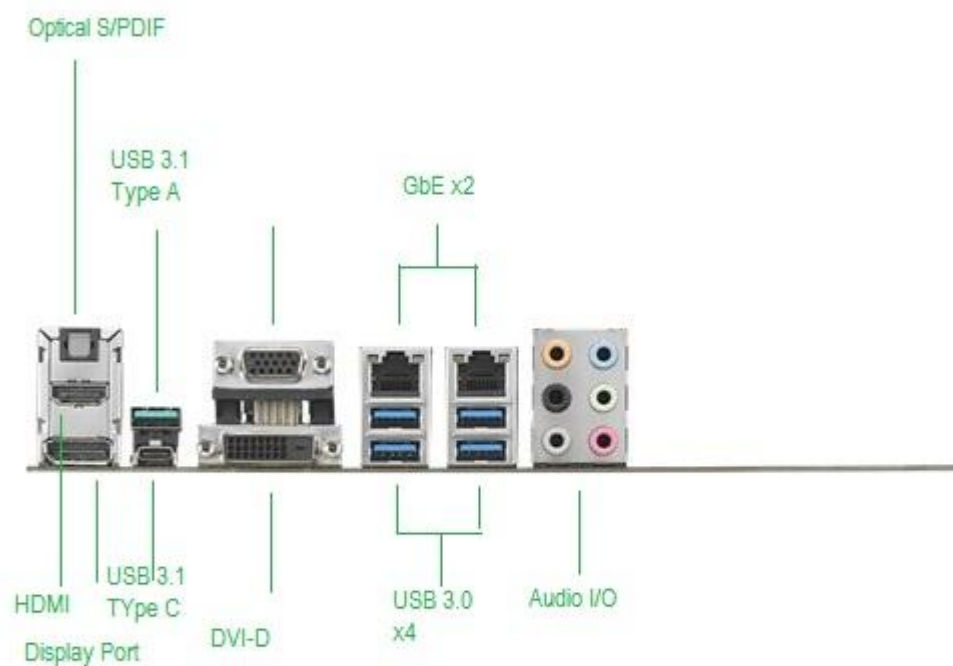


Figure 2-1:AS63 Motherboard Rear I/O

2.2 Front I/O

AS63 Front I/O are as shown below:



Figure 2-2: AS63 Front I/O

2.3 Power Supply

Power supply is located in the rear of the case. The switch and power plug is shown in the figure below:



2.4 Graphics I/Os

AS63 Supports two Graphics Adapters. Following diagram shows the graphic ports available from each graphics adapter:

